KERN – Tradition and Innovation for over 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.

Printed in Germany
by KERN & SOHN GmbH
z-dir-gbr-kp-2016

fast

- 24 hours delivery service – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

reliable

- 3 years warranty for balances over € 400,–
- Precision in weighing technology for more than 170 years

competent

- DAkkS accreditation DIN EN ISO/IEC 17025
- Certified QM system DIN EN ISO 9001:2008
- Authorisation for initial verification by the manufacturer 2009/23/EC
- Medical certifications DIN EN ISO 13485 and 93/42/EEC

versatile

- One-stop shopping: from pocket balances through to floor scales – everything from one supplier
- Find the product you want at lightning speed with the "Balance Quick-Finder" at www.kern-sohn.com

Order hotline
+49 [0] 7433 9933-0

Service hotline
+49 [0] 7433 9933-199

Calibration hotlinee
+49 [0] 7433 9933-196

Online-Shop
www.kern-sohn.com

E-mail order
info@kern-sohn.com

Fax Order
+49 [0] 7433 9933-146

Our team of consultants will assist you
from Monday to Friday
from 8:00 am to 6:00 pm

www.kern-sohn.com
For product specification sheets, user manuals, useful information, technical glossary pictures and much more as well as a smart search engine for test weights and balances

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Qualität Management ISO 9001:2008

APPROVAL FOR MANUFACTURE OF MEDICAL PRODUCTS EN 13485 and 93/42/EEC

AUTHORISATION FOR INITIAL VERIFICATION BY THE MANUFACTURER 2009/23/EC

German Excellence Group
Member

KERN
GB

BALANCES & TEST SERVICE – for laboratory, industry and food

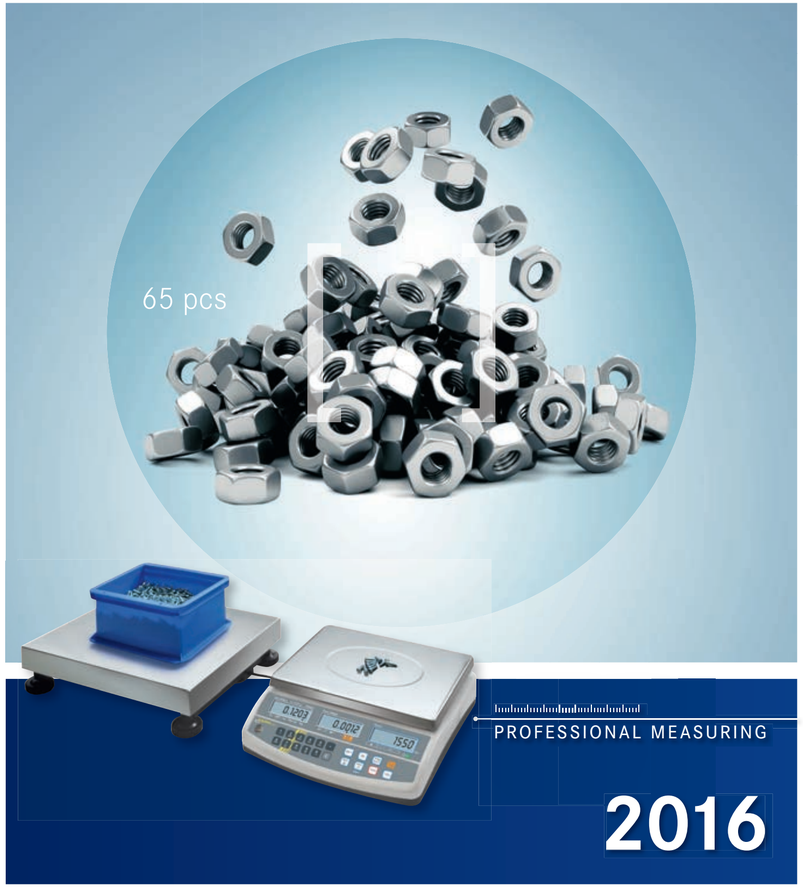
2016

GB

KERN

BALANCES & TEST SERVICE

for laboratory, industry and food



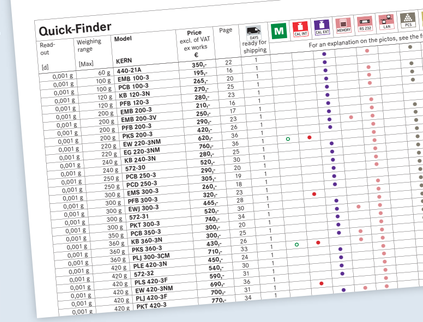
How do I quickly find the product I am looking for?

The tried and tested quick search system – "Quick-Finder" ahead of each product group allows you to base the search for a certain target group on weighing data you need such as readout, weighing range and main features for each model.

And it's as simple as that – find the product you want in 2 steps:

1. Go to the product group index on page 3
2. Pick the appropriate product group and find the product you want using the Quick-Finder.

... or use the model name and find the product quickly and efficiently using the A-Z model list:



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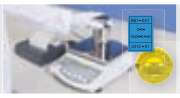
18	DAkkS Calibration Service (DKD)			208 – 213

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NEWS

We also have lots of new models in our range for 2016.
Innovative products in the usual KERN quality:

School balance KERN EMB-S

The space miracle - stackable school balance for experiment-based teaching
Further details → page 15

from € 200,- (pack of 5)

Precision balances PNS · PNJ

The new standard in the laboratory with robust tuning fork weighing system
Further details → page 32

from € 570,-

Analytical balance KERN ADB

The price leader in analytical balances
Further details → page 45

only € 910,-

Moisture analyser DAB

Moisture analyser with user-friendly graphics display and 15 memories for drying programs
Further details → page 54

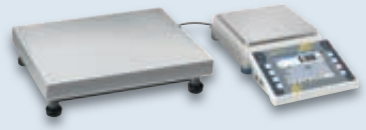
only € 1130,-

Moisture analyser MLS-D

Infrared moisture analyzer with graphics display and a vast database
Further details → page 57

only € 1450,-

Premium counting system CCP



Premium counting system for high-capacity counting applications with the highest level of accuracy, counting resolution up to 6 million points
Further details → page 100

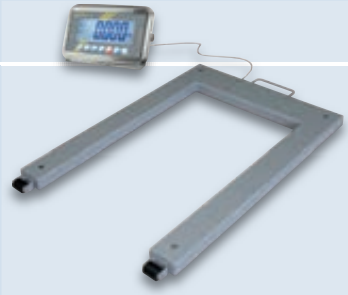
from € 2600,-

Premium counting system CCT

Premium counting system with EC type approval [M], for complex counting applications with the highest level of accuracy, counting resolution up to 6 million points
Further details → page 102

from € 2700,-

Pallet scale UFC



Pallet scale with steel load support (IP67) and stainless steel display device (IP65), with EC type approval [M]
Further details → page 135

only € 1280,-

Crane scales HFO

Industrial crane scale up to 6 t – with EC type approval [M]
Further details → page 166

from € 1020,-

Thermal label printer YKE-01

Cost-effective universal label printer for KERN balances
Further details → page 178

only € 590,-

All prices listed here are without german legal VAT (19 %)

Touchscreen models KERN AET · PET · ILT · KEN · KET – State-of-the-art premium touchscreen balance series with the complete range of functions for demanding processes

Come and enjoy the many benefits of the innovative touchscreen models

- Large touch display for easy operation and convenient reading
- The menu and processes are self-explanatory
- Intuitive, graphically supported operation, by using Smartphones, tablets, etc.
- No more errors or lost time through keys which have several functions or unclear markings
- Ensures a more efficient and rapid operation
- Large keys, which can also be operated while wearing gloves
- Wide range of functions, software which can be customised to suit your individual requirements, vast database

KERN – Weighing can be this simple.

Ingo Schlaich
Product specialist Touchscreen balances

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Analytical balance
KERN AET
For all details see page 50/51

Precision balance
KERN PET
For all details see page 41–43

Platform scale
KERN ILT
For all details see page 120/121

Display device
KERN KEN-TM
For all details see page 149

Display device
KERN KET-TAM
For all details see page 149

Features of the new touchscreen models KERN AET · PET · ILT · KEN · KET

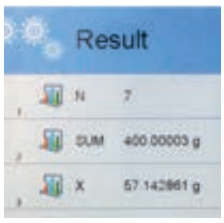
Innovative touchscreen
Large backlit and touch-sensitive LCD screen with digit height 17 mm, screen size 5.7" (approx. 145 mm), WxH 115x86 mm. Dimensions of display device WxDxH 208x71x150 mm.

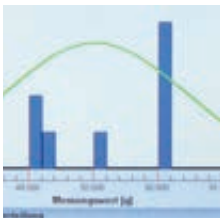
Electronic level indicator
permanently checking the position of the balance, sounding an alarm when the device is out of balance and giving visual instructions on how to correct this (not ILT-GM)

3 rapid assignment keys
for frequently recurring applications, functions, settings or memory contents

Alibi memory
Electronic archiving of weighing results, see also page 214

Convenient recipe-weighing
complete recipes with all recipe ingredients and associated nominal values, names, tolerances, tare weights etc. can be stored. If one recipe ingredient is overweight, then the practical recipe adjustment function for when dosages are exceeded automatically calculates the new target weights of the other ingredients. Recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc. (Multiplier function)





2 infrared sensors
to initiate functions such as TARE, zeroing, for carrying out, starting or aborting adjustment, calling up database or menu and much more, without having to touch the balance – just give it a wave!

Statistical function
for statistical analysis of series of measurements. The graphic display (only AET, PET) of measurements can be used by the operator to check and evaluate their results

Enormous database (up to 8 GB)
can be filled easily at the PC using the optional software KERN PET-A01 (suitable for KERN AET, PET) or KET-A04 (suitable for ILT-GAM, ILT-BAM, KET-TAM), for more details see page 184. Particularly beneficial when counting a large number of individual items, as part of a stock-tacking, for checkweighing, recording recipes etc.

Individual print formats
up to 16 printouts to be edited easily at the PC

High level of connectivity
- 1 x Ethernet
- 2 x RS-232
- 2 x USB
  e.g. for data exchange or connecting barcode or RFID scanners
- Digital I/O (4 in/4 out) e.g. to control machines and plants
- 1 x additional display
- 1 x WLAN (selected models)

Intuitive use, increases efficiency and saves costs
Easy capture of article data at the PC, call up of items on the balance using the connected barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory.

Individual user settings can be stored
- User name and number
- Password
- Authorisations
- Menu language (DE, GB, FR, IT, ES, PL)
- User profiles
- Additional guest mode for users without user log-in

High level of process reliability
you can define limit values for selected parameters, such as, for example, temperature, humidity (only models where [d] = 0,01 mg), levelling, minimum load, adjustment etc. When the value falls outside these limits, a warning message will be issued. Limit values and warning messages can be archived with the weighing result

Data exchange via USB
to download software updates, export recipes or weighing results, export/import databases, balance settings, data exchange between individual balances and much more

WE WILL SOLVE YOUR PROBLEMS - SPECIAL BALANCES BY KERN

ATEX scales

Weighing – without it going bang!

In areas where there is a high potential risk of explosion, the user must be able to rely on his apparatus 100 %. We have designed our ATEX IEX and OEX balance ranges for this application.

For all important information on this subject, please see page 174

Axle load scales

Over the legal limit ...?

...not with the mobile axle load scales from the KERN VHP range!
In particular on building sites, at harvest time, when weighing small aircraft or as part of mobile police checks, you can quickly establish whether a vehicle is overloaded or incorrectly loaded, at a reasonable price.

For all important information, please see page 142

Stocktaking scales

Get your inventory levels in an instant

Save valuable time and money when recording your stock levels. Whether as a checkweigher in Goods Inwards, when picking small parts in sales or when recording your entire stock levels within the scope of a regular inventory – with the KERN inventory and Goods Inwards system you are always in safe hands.

For all important information on this subject, please see pages 95 - 97 and page 175

Compact crane scales/force-measuring devices

Harsh environments mean that you need tough tools

These electronic tensile dynamometers are extremely versatile thanks to their stable, compact construction, they can, for example, be fitting into testing machines, used for checking for overload, for bracing and tensile force measurement, etc. This is where the benefit of this construction comes to the fore, as the tensile force can be applied in both directions.

For all important information, please see pages 163/164

Pocket size precision

Pocket balances are the ideal helpers whenever mobility and high precision are required. Since they have fewer keys, operation is simple and fast. Different weighing units stored in the pocket balance, such as g, oz, ct, gn, etc., make them universally usable. An integrated calculator lets you use the measured weight immediately in calculations, to e.g. determine a a price, quantity, average value and much more. Compact in size and well protected with a flap or protective cover, which can be used as a conventient taring container, the pocket balance is always a useful tool for mobile weighing.

- In production, to control of production weights or during the picking of small parts
- In quality control for the quick testing of small parts like plastic parts from injection moulding machines, milled parts, screws, etc.
- For mobile weighing, on-site sampling, and fast analysis wherever there's no power outlet
- In hobbies and sports, e.g. when filling black powder, weighing parts from modelling kits etc.
- In commerce, for the fast determination of the weights of coins, jewellery, precious stones, etc.
- In veterinary sector for the weighing of small animals, the mixing of feed, etc.
- In the food sector for the preparation of spice or tea mixes, for the weighing of food in line with a diet sheet.

Quick-Finder Pocket balances

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	CAL EXT	BATT
						For an explanation on the pictos, see the front flap	
0,001 g	20 g	**TAB 20-3** ◈	**70,-**	10	1	●	●
0,002 g	10 g	**CM 50-C2N** ◈	**90,-**	10	1	●	●
0,01 g	60 g	**CM 60-2N**	**79,-**	10	1	●	●
0,1 g	150 g	**TEE 150-1**	**38,-**	10	1	●	●
0,1 g	150 g	**CM 150-1N**	**52,-**	10	1	●	●
0,1 g	200 g	**TCB 200-1**	**52,-**	10	1	●	●
0,1 g	320 g	**CM 320-1N**	**55,-**	10	1	●	●
1 g	1000 g	**CM 1K1N**	**52,-**	10	1	●	●

◈ = Carat balances ● = Standard ○ = Option

Your product specialist's recommendation:

Katharina Queitsch
Product specialist Pocket balances

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Fax +49 [0] 7433 9933-29218
katharina.queitsch@kern-sohn.com

- **Simple and convenient 2-key operation**
- **Backlit LCD display**
- **Cover can also be used as a tare cup**
- **Also ideal as a gift for your customers**

HIGH-LIGHT

only € **38,-**

▸ page 10

KERN TEE

KERN TEE

Designer pocket balance at a bargain price

KERN TCB

This is where the fun starts with pocket format weighing

1 KERN CM

Small, practical and protected in a hard case cover

KERN TAB

High-precision pocket carat balance for jewellers and travelling salesmen

STANDARD: CAL EXT · UNIT · BATT · 1 DAY

STANDARD: 2 YEARS WARRANTY · OPTION: DAkkS +3 DAYS

- **Simple and convenient 2-key operation**
- **Cover made of shock proof plastic** as protection against pressure and dust. Can also be used as a tare cup
- **Note: Can be printed with your logo**, from 100 pcs. Please ask for details

STANDARD: CAL EXT · UNIT · BATT · 1 DAY

STANDARD: 2 YEARS WARRANTY · OPTION: DAkkS +3 DAYS

- **Simple and convenient 2-key operation**
- **Small and handy**
- **Transport box and weighing pan included**
- **Revolving weighing plate** (as overload protection)
- **Note: Individual logo printing on request**

STANDARD: CAL EXT · UNIT · BATT · 1 DAY

STANDARD: 2 YEARS WARRANTY · OPTION: DAkkS +3 DAYS

- **Hard case cover as protection against pressure and dust**

1 ***CM:***

- **Integrated calculator**

2 ***CM-C:***

- **Hard case cover as protection against pressure and dust**
- **Adjusting weight standard**
- **Draft shield** against air movements standard
- **Weighing pan standard**

2

STANDARD: CAL EXT · UNIT · BATT · 1 DAY

STANDARD: 2 YEARS WARRANTY · OPTION: DAkkS +3 DAYS

- **Simple and convenient 4-key operation**
- **Can be switched over from g to ct, gn at the touch of a key**
- **Hard case cover as protection against pressure and dust**
- **Adjusting weight and weighing pan standard**

KERN	TEE 150-1	TCB 200-1	CM 60-2N	CM 150-1N	CM 320-1N	CM 1K1N	CM 50-C2N	TAB 20-3
Weighing range [Max] g	150 g	200 g	60 g	150 g	320 g	1000 g	10 g | 50 ct	20 g | 100 ct
Readout [d] g	0,1 g	0,1 g	0,01 g	0,1 g	0,1 g	1 g	0,002 g | 0,01 ct	0,001 g | 0,005 ct
LCD display	backlit, digit height 9 mm	Digit height 9 mm	Digit height 12 mm				Digit height 9 mm	backlit, digit height 9 mm
Dimensions of weighing plate	WxD 60x64 mm	Ø 80 mm	WxD 70x80 mm				WxD 50x40 mm	WxD 36x42 mm
Overall dimensions	WxDxH 67x100x22 mm	ØxH 80 mm	WxDxH 85x130x25 mm					WxDxH 95x133x33 mm
Power supply	Batteries included, 2 x 1,5 V AAA	Batteries included, 2 x LR 44 AUTO-OFF function to preserve battery life, can be switched off	Batteries included, 2 x 1,5 V AAA AUTO-OFF function to preserve battery life, can be switched off Operating time:					Batteries included, 4 x 1,5 V AAA operating time approx. 150 h
			ca. 30 h	ca. 70 h		ca. 30 h		
Net weight	100 g	50 g	180 g				200 g	
Permissible ambient temperature	5 °C / 35 °C							10 °C / 30 °C
Price €, excl. of VAT, ex works	**38,-**	**52,-**	**79,-**	**52,-**	**55,-**	**52,-**	**90,-**	**70,-**
Option DAkkS Calibr. Certificate	963-127, **72,-**							

Single-cell cutting edge technology Precision balances

To meet stricter requirements for precision, speed, and ➔ ***reproducibility*** of weight values, monolithic load cells are ever more often becoming the standard. These are measuring sensors for the determination determination of weight that are made of a compact piece of aluminium. These systems distinguish themselves from conventional load cells in terms of both quality and performance:

- Higher measuring speed
- Better measuring precision
- Stable temperature behaviour
- Improved mechanical sturdiness
- Higher corner load reliability

KERN precision and analytical balances equipped with this measuring system are designated as using “Single Cell Technology” (➔ ***SC TECH***).

➔ *See the glossary on page 214 – 216*

Your product specialist‘s recommendation:

School balance for experiment-based teaching

Saves space because it can be stacked

X-tra low profile design

Corinna Klaass
Product specialist Precision balances

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HIGH-LIGHT

from € 200,– (set of 5 units)

▸ page 15

KERN EMB-S

Quick-Finder Precision balances

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL INT	CAL EXT	MEMORY	RS 232	LAN	PCS	TOL	BATT	ACCU
						For an explanation on the pictos, see the front flap									
0,001 g	60 g	440-21A	350,-	22	1			●		●		●		○	○
0,001 g	100 g	EMB 100-3	195,-	16	1			●						●	
0,001 g	100 g	PCB 100-3	265,-	20	1			●		●		●		○	○
0,001 g	120 g	KB 120-3N	270,-	25	1			●		●		●			○
0,001 g	120 g	PFB 120-3	280,-	23	1			●		●		●			
0,001 g	200 g	EMB 200-3	210,-	16	1			●						●	
0,001 g	200 g	EMB 200-3V	250,-	17	1			●		●				●	
0,001 g	200 g	PFB 200-3	290,-	23	1			●		●		●			
0,001 g	200 g	PKS 200-3	420,-	26	1			●	●	●		●	●		○
0,001 g	220 g	EW 220-3NM	620,-	36	1			●		●		●	●		○
0,001 g	220 g	EG 220-3NM	760,-	36	1	○	●			●		●	●		○
0,001 g	240 g	KB 240-3N	280,-	25	1			●		●		●			○
0,001 g	240 g	572-30	520,-	30	1			●		●		●			○
0,001 g	250 g	PCB 250-3	290,-	20	1			●		●		●		○	○
0,001 g	250 g	PCD 250-3	305,-	19	1			●		●		●		○	○
0,001 g	300 g	EMS 300-3	260,-	18	1			●				●		○	
0,001 g	300 g	PFB 300-3	320,-	23	1			●		●		●			
0,001 g	300 g	EWJ 300-3	465,-	28	1		●			●		●			○
0,001 g	300 g	572-31	520,-	30	1			●		●		●			○
0,001 g	300 g	PKT 300-3	740,-	34	1			●	●	●		●	●		○
0,001 g	350 g	PCB 350-3	300,-	20	1			●		●		●		○	○
0,001 g	360 g	KB 360-3N	300,-	25	1			●		●		●			○
0,001 g	360 g	PKS 360-3	430,-	26	1			●	●	●		●	●		○
0,001 g	360 g	PLJ 300-3CM	710,-	33	1	○	●		●	●		●	●		
0,001 g	420 g	PLE 420-3N	450,-	24	1			●		●		●	●		○
0,001 g	420 g	572-32	540,-	30	1			●		●		●			○
0,001 g	420 g	PLS 420-3F	590,-	31	1			●		●		●	●		
0,001 g	420 g	EW 420-3NM	690,-	36	1			●		●		●	●		○
0,001 g	420 g	PLJ 420-3F	700,-	31	1		●			●		●	●		
0,001 g	420 g	PKT 420-3	770,-	34	1			●	●	●		●	●		○
0,001 g	420 g	EG 420-3NM	830,-	36	1	○	●			●		●	●		○
0,001 g	600 g	PLJ 600-3CM	750,-	33	1	○	●		●	●		●	●		
0,001 g	600 g	PET 600-3M	2500,-	41	21	○	●		●	●	●	●	●		
0,001 g	620 g	PNS 600-3	590,-	32	1			●		●		●	●		
0,001 g	620 g	PNJ 600-3M	720,-	32	1	○	●			●		●	●		
0,001 g	620 g	EW 620-3NM	770,-	36	1			●		●		●	●		○
0,001 g	620 g	EG 620-3NM	930,-	36	1	○	●			●		●	●		○
0,001 g	620 g	PES 620-3M	1280,-	40	1			●		●		●	●		○
0,001 g	620 g	PBS 620-3M	1360,-	38	1			●		●		●	●		
0,001 g	620 g	PBJ 620-3M	1590,-	38	1	○	●			●		●	●		
0,001 g	620 g	PEJ 620-3M	1480,-	40	1	○	●			●		●	●		
0,001 g	720 g	PLS 720-3A	850,-	31	1			●		●		●	●		
0,001 g	720 g	PLJ 720-3A	990,-	31	1		●			●		●	●		
0,001 g	720 g	PLJ 720-3AM	1050,-	31	1	○	●			●		●	●		
0,001 g	750 g	PLJ 700-3CM	730,-	33	1	○	●		●	●		●	●		
0,001 g	1000 g	PET 1000-3M	2800,-	41	21	○	●		●	●	●	●	●		
0,001 g	1200 g	PLS 1200-3A	870,-	31	1			●		●		●	●		
0,001 g	1200 g	PLJ 1200-3A	1005,-	31	1		●			●		●	●		
0,001 g	2100 g	PLJ 2000-3A	1700,-	31	1		●			●		●	●		
0,01 g	200 g	EMB 200-2	125,-	16	1			●						●	
0,01 g	200 g	PCB 200-2	230,-	20	1			●		●		●		○	○
0,01 g	200 g	440-33N	290,-	22	1			●		●		●		○	○
0,01 g	400 g	440-35N	330,-	22	1			●		●		●		○	○
0,01 g	600 g	EMB 600-2	160,-	16	1			●						●	
0,01 g	600 g	PFB 600-2M	270,-	23	1	○		●		●		●			
0,01 g	600 g	440-35A	365,-	22	1			●		●		●		○	○
0,01 g	600 g	EWJ 600-2M	410,-	28	1	○	●			●		●			○
0,01 g	600 g	PLJ 600-2GM	540,-	33	1	○	●			●		●	●		●
0,01 g	650 g	KB 650-2NM	320,-	25	1	○		●		●		●			○
0,01 g	650 g	573-34NM	550,-	30	1	○		●		●		●			
0,01 g	650 g	KBJ 650-2NM	690,-	25	1	○	●			●		●			○
0,01 g	820 g	EW 820-2NM	540,-	36	1			●		●		●	●		○
0,01 g	1000 g	EMB 1000-2	195,-	16	1			●						●	
0,01 g	1000 g	PCB 1000-2	255,-	20	1			●		●		●		○	○
0,01 g	1200 g	PFB 1200-2	245,-	23	1			●		●		●			
0,01 g	1200 g	KB 1200-2N	270,-	25	1			●		●		●			○
0,01 g	1600 g	572-33	480,-	30	1			●		●		●			○
0,01 g	2000 g	EMB 2000-2	205,-	16	1			●						●	
0,01 g	2000 g	EMB 2000-2V	250,-	17	1			●		●				●	
0,01 g	2000 g	PFB 2000-2	255,-	23	1			●		●		●			
0,01 g	2000 g	KB 2000-2N	270,-	25	1			●		●		●			○

= News 2016

● = Standard ○ = Option

Quick-Finder Precision balances

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL INT	CAL EXT	MEMORY	RS 232	LAN	PCS	TOL	BATT	ACCU
						For an explanation on the pictos, see the front flap									
0,01 g	2000 g	**PKS 2000-2**	**430,-**	26	1			●	●	●		●	●		○
0,01 g	2200 g	**EW 2200-2NM**	**660,-**	36	1			●		●		●	●		○
0,01 g	2200 g	**EG 2200-2NM**	**820,-**	36	1	○	●			●		●	●		○
0,01 g	2200 g	**PES 2200-2M**	**830,-**	40	1			●		●		●	●		○
0,01 g	2200 g	**PEJ 2200-2M**	**1040,-**	40	1	○	●			●		●	●		
0,01 g	2400 g	**KB 2400-2N**	**280,-**	25	1			●		●		●			○
0,01 g	2400 g	**572-35**	**490,-**	30	1			●		●		●			○
0,01 g	2500 g	**PCB 2500-2**	**290,-**	20	1			●		●		●		○	○
0,01 g	2500 g	**PCD 2500-2**	**295,-**	19	1			●		●		●		○	○
0,01 g	2500 g	**PET 2500-2M**	**2400,-**	41	21	○	●		●	●	●	●	●		
0,01 g	3000 g	**EMS 3000-2**	**240,-**	18	1			●				●		○	
0,01 g	3000 g	**PFB 3000-2**	**280,-**	23	1			●		●		●			
0,01 g	3000 g	**EWJ 3000-2**	**445,-**	28	1		●			●		●			○
0,01 g	3000 g	**572-37**	**490,-**	30	1			●		●		●			○
0,01 g	3100 g	**PLJ 3000-2FM**	**660,-**	31	1		●			●		●	●		
0,01 g	3000 g	**PKT 3000-2**	**740,-**	34	1			●	●	●		●	●		○
0,01 g	3200 g	**PNS 3000-2**	**580,-**	32	1			●		●		●	●		
0,01 g	3200 g	**PNJ 3000-2M**	**680,-**	32	1	○	●			●		●	●		
0,01 g	3500 g	**PCB 3500-2**	**300,-**	20	1			●		●		●		○	○
0,01 g	3500 g	**PLJ 3000-2CM**	**710,-**	33	1	○	●		●	●		●	●		
0,01 g	3600 g	**KB 3600-2N**	**290,-**	25	1			●		●		●			○
0,01 g	3600 g	**PKS 3600-2**	**440,-**	26	1			●	●	●		●	●		○
0,01 g	4200 g	**PLE 4200-2N**	**450,-**	24	1			●		●		●	●		○
0,01 g	4200 g	**572-39**	**520,-**	30	1			●		●		●			○
0,01 g	4200 g	**PLS 4200-2F**	**590,-**	31	1			●		●		●	●		
0,01 g	4200 g	**PLJ 4200-2F**	**690,-**	31	1		●			●		●	●		
0,01 g	4200 g	**EW 4200-2NM**	**740,-**	36	1			●		●		●	●		○
0,01 g	4200 g	**PKT 4200-2**	**770,-**	34	1			●	●	●		●	●		○
0,01 g	4200 g	**EG 4200-2NM**	**880,-**	36	1	○	●			●		●	●		○
0,01 g	4200 g	**PES 4200-2M**	**980,-**	40	1			●		●		●	●		○
0,01 g	4200 g	**PBS 4200-2M**	**1150,-**	38	1			●		●		●	●		
0,01 g	4200 g	**PEJ 4200-2M**	**1190,-**	40	1	○	●			●		●	●		
0,01 g	4200 g	**PBJ 4200-2M**	**1420,-**	38	1	○	●			●		●	●		
0,01 g	6000 g	**PET 6000-2M**	**2600,-**	41	21	○	●		●	●	●	●	●		
0,01 g	6200 g	**EW 6200-2NM**	**810,-**	36	1			●		●		●	●		○
0,01 g	6200 g	**PLS 6200-2A**	**870,-**	31	1			●		●		●	●		
0,01 g	6200 g	**PLJ 6200-2A**	**990,-**	31	1		●			●		●	●		
0,01 g	6200 g	**PLJ 6200-2AM**	**1050,-**	31	1	○	●			●		●	●		
0,01 g	6200 g	**PES 6200-2M**	**1210,-**	40	1			●		●		●	●		○
0,01 g	6200 g	**PBS 6200-2M**	**1380,-**	38	1			●		●		●	●		
0,01 g	6200 g	**PBJ 6200-2M**	**1720,-**	38	1	○	●			●		●	●		
0,01 g	8200 g	**PLS 8000-2A**	**1050,-**	31	1			●		●		●	●		
0,05 g	6 kg	**PFB 6K0.05**	**250,-**	23	1			●		●		●			
0,05 g	10 kg	**KB 10K0.05N**	**280,-**	25	1			●		●		●			○
0,05 g	12 kg	**572-45**	**490,-**	30	1			●		●		●			○
0,05 g	12 kg	**PKT 12K0.05**	**630,-**	34	1			●	●	●		●	●		○
0,05 g	20 kg	**572-55**	**520,-**	30	1			●		●		●			○
0,1 g	200 g	**EMB 200-1SS05***	**200,-**	15	1			●						●	
0,1 g	400 g	**440-43N**	**185,-**	22	1			●		●		●		○	○
0,1 g	500 g	**EMB 500-1SS05***	**225,-**	15	1			●						●	
0,1 g	500 g	**EMB 500-1**	**57,-**	16	1			●						●	
0,1 g	500 g	**EMB 500-1GN**	**57,-**	16	1			●						●	
0,1 g	600 g	**PFB 600-1M**	**340,-**	23	1	○		●		●		●			
0,1 g	1000 g	**PCB 1000-1**	**185,-**	20	1			●		●		●		○	○
0,1 g	1000 g	**440-45N**	**245,-**	22	1			●		●		●		○	○
0,1 g	1200 g	**EMB 1200-1**	**80,-**	16	1			●						●	
0,1 g	2000 g	**PCB 2000-1**	**215,-**	20	1			●		●		●		○	○
0,1 g	2000 g	**440-47N**	**270,-**	22	1			●		●		●		○	○
0,1 g	3000 g	**EMB 3000-1**	**125,-**	16	1			●						●	
0,1 g	4000 g	**440-49N**	**330,-**	22	1			●		●		●		○	○
0,1 g	6000 g	**EMB 6000-1**	**160,-**	16	1			●						●	
0,1 g	6000 g	**EMS 6K0.1**	**160,-**	18	1			●				●		○	
0,1 g	6000 g	**PFB 6000-1**	**220,-**	23	1			●		●		●			
0,1 g	6000 g	**PCB 6000-1**	**245,-**	20	1			●		●		●		○	○
0,1 g	6000 g	**PFB 6000-1M**	**260,-**	23	1	○		●		●		●			
0,1 g	6000 g	**440-49A**	**365,-**	22	1			●		●		●		○	○
0,1 g	6000 g	**EWJ 6000-1M**	**400,-**	28	1	○	●			●		●			○
0,1 g	6000 g	**PLJ 6000-1GM**	**540,-**	33	1	○	●			●		●	●		●
0,1 g	6500 g	**KB 6500-1NM**	**320,-**	25	1	○		●		●		●			○
0,1 g	6500 g	**573-46NM**	**550,-**	30	1	○		●		●		●			
0,1 g	8200 g	**PBS 8200-1M**	**490,-**	38	1	○		●		●		●	●		

= News 2016 * set of 5 units ● = Standard ○ = Option

Quick-Finder Precision balances

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL INT	CAL EXT	MEMORY	RS 232	LAN	PCS	TOL	BATT	ACCU
						For an explanation on the pictos, see the front flap									
0,1 g	8200 g	**PBJ 8200-1M**	**1410,-**	38	1	○	●			●		●	●		
0,1 g	10 kg	**PCD 10K0.1**	**220,-**	19	1			●		●		●		○	○
0,1 g	10 kg	**PCB 10000-1**	**240,-**	20	1			●		●		●		○	○
0,1 g	10 kg	**KB 10000-1N**	**260,-**	25	1			●		●		●			○
0,1 g	10 kg	**PKS 10K0.1**	**400,-**	26	1			●	●	●		●	●		○
0,1 g	10 kg	**572-43**	**480,-**	30	1			●		●		●			○
0,1 g	12 kg	**EMS 12K0.1**	**205,-**	18	1			●				●		○	
0,1 g	12 kg	**PNS 12000-1**	**570,-**	32	1			●		●		●	●		
0,1 g	12 kg	**PNJ 12000-1M**	**680,-**	32	1	○	●			●		●	●		
0,1 g	12 kg	**EW 12000-1NM**	**635,-**	36	1			●		●		●	●		○
0,1 g	15 kg	**PES 15000-1M**	**1190,-**	40	1			●		●		●	●		○
0,1 g	16 kg	**572-49**	**480,-**	30	1			●		●		●			○
0,1 g	16 kg	**PKT 16K0.1**	**630,-**	34	1			●	●	●		●	●		○
0,1 g	20 kg	**PLS 20000-1F**	**590,-**	31	1			●		●		●	●		
0,1 g	24 kg	**572-57**	**490,-**	30	1			●		●		●			○
0,1 g	24 kg	**PKT 24K0.1**	**650,-**	34	1			●	●	●		●	●		○
0,1 g	31 kg	**PES 31000-1M**	**1960,-**	40	1			●		●		●	●		○
1 g	2000 g	**EMB 2000-0SS05***	**200,-**	15	1			●						●	
1 g	2200 g	**EMB 2200-0**	**60,-**	16	1			●						●	
1 g	4000 g	**440-51N**	**160,-**	22	1			●		●		●		○	○
1 g	5000 g	**EMB 5000-0SS05***	**225,-**	15	1			●						●	
1 g	5200 g	**EMB 5.2K1**	**60,-**	16	1			●						●	
1 g	6000 g	**EMS 6K1**	**70,-**	18	1			●				●		○	
1 g	6000 g	**PCB 6000-0**	**130,-**	20	1			●		●		●		○	○
1 g	6000 g	**440-53N**	**180,-**	22	1			●		●		●		○	○
1 g	6000 g	**PFB 6000-0M**	**330,-**	23	1	○		●		●		●			
1 g	12 kg	**EMS 12K1**	**95,-**	18	1			●				●		○	
5 g	5200 g	**EMB 5.2K5**	**55,-**	16	1			●						●	

= News 2016 * set of 5 units ● = Standard ○ = Option

School balance KERN EMB-S

5x

NEW

1

2

The space miracle – stackable school balance for experiment-based teaching

Features

- **Simple and convenient 2-key operation**, making them ideal for use in schools and universities
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Secure and non-slip positioning** with rubber feet
- 1 **Stackable** for space-saving storage
- 2 A practical **transport safety** lock prevents the weighing technology from being overloaded when stored or during transportation
- **Hook for underfloor weighing** standard

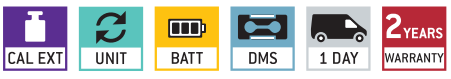
Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface Ø 120 mm
- Weighing plate material plastic
- Net weight approx. 0,5 kg/piece
- Optional battery operation, 2 x 1,5 V AA, standard, operating time up to 35 h, AUTO-OFF function to preserve the battery
- Permissible ambient temperature 5 °C / 35 °C
- **Note:** The models are only delivered in a set of 5 units. i.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

Accessories

- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, not included, can be retrofitted, KERN YKA-03, **€ 40,-**

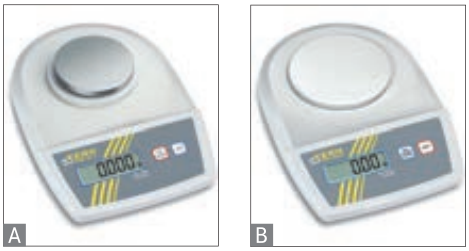
STANDARD



OPTION

Model KERN	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Dimensions housing WxDxH mm	**Price set of 5 units** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €/1 piece
EMB 200-1SS05	200	0,1	0,2	± 0,3	145x205x45	**200,-**	963-127	72,-
EMB 500-1SS05	500	0,1	0,2	± 0,3	145x205x45	**225,-**	963-127	72,-
EMB 2000-0SS05	2000	1	2	± 3	145x205x45	**200,-**	963-127	72,-
EMB 5000-0SS05	5000	1	2	± 3	145x205x45	**225,-**	963-127	72,-

School balance KERN EMB



Entry level laboratory balance with tremendous weighing performance

Features

- **Simple and convenient 2-key operation**, making them ideal for use in schools and universities
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Ready for use:** Batteries included **Ring-shaped draught shield** standard, only for models with weighing plate size A, weighing space ØxH 96x35 mm
- **Hook for underfloor weighing** standard

- 1 **Anniversary Gnome edition EMB 500-1GN**, including gnome booklet

Technical data

- Large LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel, Ø
  A 82 mm, B 105 mm,
  C 150 mm, see enlarged picture
- Weighing plate material
  A Plastic, with conductive lacquer
  B, C Plastic
- Net weight approx. 0,75 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

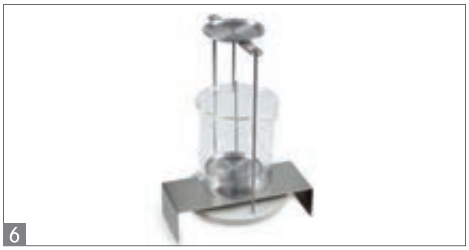
- 2 **Ring-shaped draught shield**, plastic, only for models with weighing plate size A, KERN EMB-A01, **€ 20,-**
- 3 **Stainless steel weighing plate**, only for models with weighing plate size B, KERN EMB-A02, **€ 26,-**
- 4 **Stack frame** for space-saving storage of precision balances from the KERN EMB range, scope of delivery 5 pieces, for models with housing dimensions WxDxH
  170x240x39 mm: KERN EMB-A07, **€ 40,-**
  170x240x54 mm: KERN EMB-A09, **€ 40,-**
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, not included, can be retrofitted, KERN YKA-03, **€ 40,-**

STANDARD

OPTION

Model KERN	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Dimensions housing WxDxH mm	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	 €
EMB 100-3	100	0,001	0,001	± 0,005	170x240x54	A	**195,-**	963-127	72,-
EMB 200-3	200	0,001	0,001	± 0,005	170x240x54	A	**210,-**	963-127	72,-
EMB 200-2	200	0,01	0,01	± 0,02	170x240x39	B	**125,-**	963-127	72,-
EMB 600-2	600	0,01	0,01	± 0,03	170x240x39	B	**160,-**	963-127	72,-
EMB 1000-2	1000	0,01	0,01	± 0,05	170x240x54	C	**195,-**	963-127	72,-
EMB 2000-2	2000	0,01	0,01	± 0,05	170x240x54	C	**205,-**	963-127	72,-
EMB 500-1	500	0,1	0,1	± 0,2	170x240x39	C	**57,-**	963-127	72,-
EMB 500-1GN	500	0,1	0,1	± 0,2	170x240x39	C	**57,-**	963-127	72,-
EMB 1200-1	1200	0,1	0,1	± 0,3	170x240x39	C	**80,-**	963-127	72,-
EMB 3000-1	3000	0,1	0,1	± 0,3	170x240x39	C	**125,-**	963-127	72,-
EMB 6000-1	6000	0,1	0,1	± 0,3	170x240x39	C	**160,-**	963-128	88,-
EMB 2200-0	2200	1	1	± 2	170x240x39	C	**60,-**	963-127	72,-
EMB 5.2K1	5200	1	1	± 3	170x240x39	C	**60,-**	963-128	88,-
EMB 5.2K5	5200	5	5	± 10	170x240x39	C	**55,-**	963-128	88,-

Compact laboratory balance KERN EMB-V



Compact laboratory balance with integrated density determination function

Features

- **Density determination made easy!** Thanks to the self-explanatory, graphic-assisted control panel, the density of solids and liquids can be determined in seconds, making them ideal for use in schools and universities. For interesting facts about density determination see page 214
- Visualised process avoids operating errors
  - No learning time = reduces costs
  - Ideal for untrained users
- The 4 steps are carried out from left to right:
  1 Tare the balance by pressing the [TARE] key
  2 Select density determination mode (solids/liquids)
  3 Weighing of samples/plummets in air
  4 Weighing of samples/plummets in liquid.
  The density will be shown on the display right away
- **Particularly flat design**
- **Hook for underfloor weighing** standard
- **Ready for use**: battery 9 V block standard. AUTO-OFF function to preserve the batteries, can be switched off
- **Note:** Balance and appropriate set for density determination should be ordered at the same time, see accessories

Technical data

- Large LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel, plastic, Ø
  A 82 mm, with conductive lacquer
  B 150 mm, see enlarged picture. The illustration shows the EMB 200-3V model with optional density set YDB-01
- Overall dimensions WxDxH 170x240x54 mm
- Net weight approx. 0,835 kg
- Permissible ambient temperature 5 °C / 35 °C
- **New:** Now also with carat weighing unit:
  EMB 200-3V: 1000 ct / 0,005 ct
  EMB 2000-2V: 10000 ct / 0,05 ct

Accessories

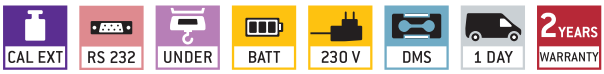
for KERN EMB 200-3V:

- 5 **Set for density determination** of liquids and solids with density ≤/≥ 1. Scope of delivery: Weighing plate, beaker (HxØ 71x51 mm), sample holder, plummet, KERN YDB-01, **€ 215,-**
- **Calibration certificate for the plummet** (20 g), KERN 962-335V, **€ 143,-**

for KERN EMB 2000-2V:

- 6 **Set for density determination** of liquids and solids with density ≤/≥ 1. Scope of delivery: Weighing plate, beaker (HxØ 135x51 mm), sample holder, plummet, KERN YDB-02, **€ 330,-**
- **Calibration certificate for the plummet** (200 g), KERN 962-338V, **€ 141,-**

STANDARD



OPTION

Model KERN	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	 €
EMB 200-3V	200	0,001	0,002	± 0,005	A	**250,-**	963-127	72,-
EMB 2000-2V	2000	0,01	0,02	± 0,05	B	**250,-**	963-127	72,-

School balance KERN EMS

Entry level model in the low-cost range with large weighing plate

Features

- Especially suitable for use in schools and universities, for example for biology, chemistry, physics
- **Large**, **shock proof plastic weighing plate**
- **Particularly flat design**
- **Ergonomically optimised key pad** with large keys and a high-contrast LCD display
- **Secure and non-slip positioning** with rubber feet
- **Adjusting program CAL**, external test weights at an additional price, see page 188 ff.
- 1 **Draught shield** standard, only for models with weighing plate size A, weighing space WxDxH 145x145x65 mm

Technical data

- LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel,
  A Ø 105 mm,
  B WxD 175x190 mm, see enlarged picture
- Weighing plate material
  A Plastic, with conductive lacquer
  B Plastic
- Dimensions housing WxDxH 200x280x63 mm
- Optional battery operation, battery 9 V block not standard, operating time up to 40 h, AUTO-OFF function to preserve the battery
- Mains adapter external, standard
- Net weight approx. 1,22 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- 2 **Stainless steel weighing plate**, only for models with weighing plate size B, KERN EMS-A01, **€ 30,-**
- **Suitable test weights**, also with calibration certificate see page 188

STANDARD

CAL EXT · PCS · RECIPE · PERCENT · UNIT · BATT · MULTI · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €
EMS 300-3	300	0,001	0,002	± 0,005	0,002	A	**260,-**	963-127	72,-
EMS 3000-2	3000	0,01	0,02	± 0,05	0,02	B	**240,-**	963-127	72,-
EMS 6K0.1	6000	0,1	0,1	± 0,3	0,2	B	**160,-**	963-128	88,-
EMS 12K0.1	12000	0,1	0,1	± 0,3	0,2	B	**205,-**	963-128	88,-
EMS 6K1	6000	1	1	± 3	2	B	**70,-**	963-128	88,-
EMS 12K1	12000	1	1	± 3	2	B	**95,-**	963-128	88,-

Compact laboratory balance KERN PCD

High-resolution precision balance with removable display for maximum flexibility

Features

- **Laboratory balance with separate platform:** Ideal when working in the glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing results
- 1 **Draught shield** standard for models with weighing plate size A, weighing space WxDxH 146x146x70 mm

Technical data

- Backlit LCD display, digit height 21 mm
- Weighing plate dimensions, stainless steel,
  A Ø 105 mm,
  B WxD 160x160 mm, see enlarged picture
- Weighing plate material
  A Plastic, with conductive lacquer
  B Stainless steel
- Optional battery operation, 9 V block, not included, operating time up to 12 h. AUTO-OFF function to preserve the battery
- Overall dimensions WxDxH 165x245x142 mm
- Cable length of display device approx. 1,2 m
- Net weight approx. 1,805 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN PCD-A05S05, **€ 30,-**
- 2 **Stand** to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, **€ 50,-**
- 3 **Foot switch**, ideal when the application requires two free hands. TARE or PRINT function can be selected. Scope of delivery: foot switch, junction box, connection cable. For the PRINT function you will need the RS-232 interface cable, see page 182, KERN YKF-01, **€ 80,-**
- **Rechargeable battery pack internal**, operating time up to 48 h, charging time approx. 8 h. AUTO-OFF function to preserve the battery, can be switched off, KERN PCD-A04, **€ 50,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable printers** see page 177 ff.

STANDARD

CAL EXT · RS 232 · GLP PRINTER (only with printer) · PCS · RECIPE · PERCENT · UNIT · MOVE · BATT · MULTI · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION

ACCU · DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	€
PCD 250-3	250	0,001	0,002	± 0,005	0,002	A	**305,-**	963-127	72,-
PCD 2500-2	2500	0,01	0,02	± 0,05	0,02	B	**295,-**	963-127	72,-
PCD 10K0.1	10000	0,1	0,2	± 0,3	0,2	B	**220,-**	963-128	88,-

Compact laboratory balance KERN PCB

The standard in the laboratory

GLP/ISO record keeping of weighing data, balance adjustment etc. with date, time and identification no. in combination with an appropriate KERN printer. Ideal for monitoring and documenting your processes in accordance with your quality management system

Plus/minus weighing procedures
For example for checking piece weight, production control, for manufacturing packages of equal weight, etc. The deviation of the test items from a defined target weight will be displayed using the respective “+” and “-” symbols.

With the **recipe function** you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients

Compact laboratory balance KERN PCB

A

B

C

Features

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **Percentage determination:** makes it possible to store a given weight value (100 %) and to determine deviations from this target value
- **Ring-shaped draught shield** standard, only for models with weighing plate size A, weighing space ØxH 90x40 mm

Technical data

- Backlit LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel,
  A Ø 81 mm
  B Ø 105 mm
  C WxD 130x130 mm
  D WxD 153x173 mm, see enlarged picture
- Weighing plate material
  A Plastic, with conductive lacquer
  B, C, D Stainless steel
- Optional battery operation, battery 9 V block not standard. Operating time up to 12 h. AUTO-OFF function to preserve the battery, can be switched off
- Overall dimensions (without draught shield) WxDxH 163x245x79 mm
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, **€ 30,-**
  for models with weighing plate size
  A KERN PCB-A02S05
  B KERN PCB-A03S05
  C KERN PCB-A04S05
  D KERN PCB-A05S05
- **Hook for underfloor weighing** of hanging loads, standard, can be reordered, KERN 440-A01, **€ 25,-**
- **Rechargeable battery pack internal**, can be retrofitted, operating time up to 48 h without backlight, charging time approx. 8 h. AUTO-OFF function to preserve the battery, can be switched off, KERN PCB-A01, **€ 70,-**
- **Software Balance Connection**, for details see page 179, KERN SCD-4.0, **€ 150,-**
- **Individual header data:** the free software KERN SHM-01 can be used to set up 4 header lines on the printout for printers YKN-01, 911-013 and YKB-01N
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** see page 177 ff.

STANDARD

OPTION

Model KERN	Weighing range [Max] g	Readout [d] g	Repro-ducibility g	Linearity g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	 €
PCB 100-3	100	0,001	0,001	± 0,003	0,002	1,1	A	**265,-**	963-127	72,-
PCB 250-3	250	0,001	0,001	± 0,005	0,002	1,1	A	**290,-**	963-127	72,-
PCB 350-3	350	0,001	0,002	± 0,005	0,002	1,1	A	**300,-**	963-127	72,-
PCB 200-2	200	0,01	0,01	± 0,02	0,02	1,1	B	**230,-**	963-127	72,-
PCB 1000-2	1000	0,01	0,01	± 0,03	0,02	1,4	C	**255,-**	963-127	72,-
PCB 2500-2	2500	0,01	0,01	± 0,5	0,02	1,4	C	**290,-**	963-127	72,-
PCB 3500-2	3500	0,01	0,02	± 0,05	0,02	1,4	C	**300,-**	963-127	72,-
PCB 1000-1	1000	0,1	0,1	± 0,2	0,2	1,4	C	**185,-**	963-127	72,-
PCB 2000-1	2000	0,1	0,1	± 0,2	0,2	1,4	C	**215,-**	963-127	72,-
PCB 6000-1	6000	0,1	0,1	± 0,3	0,2	2	D	**240,-**	963-128	88,-
PCB 10000-1	10000	0,1	0,1	± 0,3	0,2	2	D	**245,-**	963-128	88,-
PCB 6000-0	6000	1	1	± 2	2	2	D	**130,-**	963-128	88,-

Compact laboratory balance KERN 440

A

B

C

The classic balance in the laboratory

Features

- **Compact size**, practical for small spaces
- **Percentage determination:** makes it possible to store a given weight value (100 %) and to determine deviations from this target value
- **Ring-shaped draught shield** standard, only for models with weighing plate size A, weighing space ØxH 90x40 mm

Technical data

- Backlit LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel,
  A Ø 81 mm
  B Ø 110 mm
  C WxD 133x133 mm
  D WxD 150x170 mm, see enlarged picture
- Weighing plate material
  A Plastic, with conductive lacquer
  B, C, D Stainless steel
- Optional battery operation, 9 V block, not included. Operating time up to 12 h. AUTO-OFF function to preserve the battery
- Overall dimensions (without draught shield) WxDxH 165x230x80 mm
- Net weight approx. 1 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, **€ 30,-**
  for models with weighing plate size
  A KERN 440-210-002S05
  B KERN 440-330-002S05
  C KERN 440-450-002S05
  D KERN 440-530-002S05
- **Rechargeable battery pack internal**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, **€ 50,-**
- **Second display**, KERN YKD-A01, **€ 95,-**
- **Individual header data:** the free software KERN SHM-01 can be used to set up 4 header lines on the printout for printers YKN-01, 911-013 and YKB-01N
- **Hook for underfloor weighing** of hanging loads, standard, can be reordered, KERN 440-A01, **€ 25,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

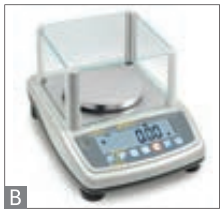
STANDARD

OPTION

Model KERN	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €
440-21A	60	0,001	0,001	± 0,003	0,002	A	**350,-**	963-127	72,-
440-33N	200	0,01	0,01	± 0,02	0,02	B	**290,-**	963-127	72,-
440-35N	400	0,01	0,01	± 0,03	0,02	B	**330,-**	963-127	72,-
440-35A	600	0,01	0,01	± 0,03	0,02	B	**365,-**	963-127	72,-
440-43N	400	0,1	0,1	± 0,2	0,2	C	**185,-**	963-127	72,-
440-45N	1000	0,1	0,1	± 0,2	0,2	C	**245,-**	963-127	72,-
440-47N	2000	0,1	0,1	± 0,2	0,2	C	**270,-**	963-127	72,-
440-49N	4000	0,1	0,1	± 0,3	0,2	D	**330,-**	963-127	72,-
440-49A	6000	0,1	0,1	± 0,3	0,2	D	**365,-**	963-128	88,-
440-51N	4000	1	1	± 2	2	D	**160,-**	963-127	72,-
440-53N	6000	1	1	± 2	2	D	**180,-**	963-128	88,-

Compact laboratory balance KERN PFB

A


B

1

2

Quick-displaying precision balance with user-friendly operation modes and EC type approval

Features

- **Easy to use:** All primary functions have their own key on the keypad
- **Compact size**, practical for small spaces
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing results
- **Draught shield** standard for models with weighing plate size A and B.
  Weighing space WxDxH 158x143x64 mm
- 1 **Separate second display** standard for models PFB 600-1M and PFB 6000-0M. Suitable for direct sales to the public. The verification value is the same as the readout. Large backlit LCD display, digit height 16 mm. Interface cable to the balance, cable length approx. 1 m, standard.
  Dimensions WxDxH 250x180x105 mm

Technical data

- Backlit LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel,
  A Ø 80 mm,
  B Ø 120 mm,
  C WxD 155x145 mm, see enlarged picture
- Overall dimensions (without draught shield) WxDxH 200x190x87 mm
- Net weight approx. 2 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- 2 **Separate second display**, ideal for training and demonstration purposes in laboratories or industry, not permitted for direct sales to the public,
  KERN PFB-A08, **€ 115,-**
- **Bluetooth data interface** for wireless data transfer to PC, must be ordered at purchase,
  KERN PFB-A10, **€ 95,-**
- **Suitable printers** see page 177 ff.

STANDARD

OPTION

FACTORY

only PFB-M

Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Repro-ducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options Verification MII KERN	 €	 DAkkS Calibr. Certificate DKD KERN	 €
PFB 120-3	120	0,001	–	0,001	± 0,003	A	**280,-**	–	–	963-127	72,-
PFB 200-3	200	0,001	–	0,001	± 0,003	A	**290,-**	–	–	963-127	72,-
PFB 300-3	300	0,001	–	0,002	± 0,003	A	**320,-**	–	–	963-127	72,-
PFB 1200-2	1200	0,01	–	0,01	± 0,03	B	**245,-**	–	–	963-127	72,-
PFB 2000-2	2000	0,01	–	0,01	± 0,03	B	**255,-**	–	–	963-127	72,-
PFB 3000-2	3000	0,01	–	0,01	± 0,03	B	**280,-**	–	–	963-127	72,-
PFB 6K0.05	6000	0,05	–	0,05	± 0,15	C	**250,-**	–	–	963-128	88,-
PFB 6000-1	6000	0,1	–	0,1	± 0,3	C	**220,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
PFB 600-2M	600	0,01	0,1	0,01	± 0,02	B	**270,-**	965-216	66,-	963-127	72,-
PFB 600-1M 1	600	0,1	0,1	0,1	± 0,1	B	**340,-**	965-216	66,-	963-127	72,-
PFB 6000-1M	6000	0,1	1	0,1	± 0,3	C	**260,-**	965-217	77,-	963-128	88,-
PFB 6000-0M 1	6000	1	1	1	± 1	C	**330,-**	965-217	77,-	963-128	88,-

Compact laboratory balance KERN PLE-N

A

2

High-resolution precision balance with high resolution and large range of functions

Features

- With its exceptionally large weighing ranges and readouts, this range offers a large pool of products to cover the most varied applications within the laboratory environment. They are therefore particularly suitable for heavy tare containers or large samples
- Stable weighing results thanks to the individual temperature compensation of the strain gauge measuring system which is set at the factory. It is therefore especially suitable for use in areas where there are temperature fluctuations
- The measuring system's exceptionally high resolution of 420,000 points ensures the highest level of accuracy with large weighing ranges. Almost unbeatable in this price category
- **Compact size**, practical for small spaces
- **Weighing sum memory** sums up individual weighing results
- **Glass draught shield**, standard for models with weighing plate size A. Removable metal cover with pipette opening. Weighing space ØxH 125x70 mm

Technical data

- Backlit LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel,
  A Ø 80 mm,
  B Ø 135 mm, see enlarged picture
- Dimensions housing WxDxH 185x250x80 mm
- Net weight approx. 2,5 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN PLE-A06, **€ 35,-**
- 2 **Set for density determination** of liquids and solids with density ≤/≥ 1, similar to illustration. For additional information see page 214. For all models with readout [d] = 0,001 g, KERN ALT-A02, **€ 350,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** see page 177 ff.

STANDARD

CAL EXT · RS 232 · GLP PRINTER (only with printer) · PCS · RECIPE · PERCENT · UNIT · TOL · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION

ACCU · DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	 €
PLE 420-3N	420	0,001	0,002	± 0,004	0,005	A	**450,-**	963-127	72,-
PLE 4200-2N	4200	0,01	0,02	± 0,04	0,05	B	**450,-**	963-127	72,-

A

B

1

Compact precision balance with large weighing range, as well as EC type approval [M] and automatic internal adjustment

Features

- 1 **KERN KBJ with internal automatic adjustment:** Every time the balance is restarted it is adjusted automatically, which guarantees a high degree of accuracy and makes it independant of its location
- Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- **User guidance step by step** on display by Yes/No dialogue
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, grammage g/m², or similar
- **Ring-shaped draught shield** standard, only for models with weighing plate size A, weighing space ØxH 90x40 mm

Technical data

- Backlit LCD display, digit height 9 mm
- Weighing plate dimensions, stainless steel*
  A Ø 81 mm, plastic, with conductive lacquer
  B WxD 130x130 mm*
  C WxD 150x170 mm*, see enlarged picture
- Overall dimensions without draught shield WxDxH 167x250x85 mm
- Net weight approx. 2 kg
- Permissible ambient temperature
  KERN KB-N: 10 °C / 40 °C
  KERN KB-NM, KBJ: 10 °C / 30 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, **€ 30,-**
  for models with weighing plate size
  A KERN PCB-A02S05, B KERN PCB-A04S05
  C KERN PCB-A05S05
- **Rechargeable battery pack internal**, 15 h, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- only KB-N: **Rechargeable battery pack external**, operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** see page 177 ff.

STANDARD

only KBJ

KB KBJ

OPTION

FACTORY

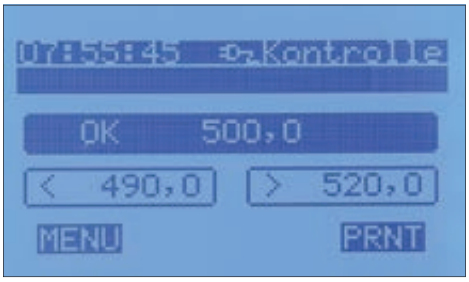
only KB-M, KBJ-M

Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Repro-ducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options Verification MII KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
KB 120-3N	120	0,001	–	0,001	± 0,003	A	**270,-**	–	–	963-127	72,-
KB 240-3N	240	0,001	–	0,001	± 0,003	A	**280,-**	–	–	963-127	72,-
KB 360-3N	360	0,001	–	0,002	± 0,005	A	**300,-**	–	–	963-127	72,-
KB 1200-2N	1200	0,01	–	0,01	± 0,03	B	**270,-**	–	–	963-127	72,-
KB 2000-2N	2000	0,01	–	0,01	± 0,03	B	**270,-**	–	–	963-127	72,-
KB 2400-2N	2400	0,01	–	0,01	± 0,03	B	**280,-**	–	–	963-127	72,-
KB 3600-2N	3600	0,01	–	0,02	± 0,05	B	**290,-**	–	–	963-127	72,-
KB 10K0.05N	10000	0,05	–	0,05	± 0,15	C	**280,-**	–	–	963-128	88,-
KB 10000-1N	10000	0,1	–	0,1	± 0,3	C	**260,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
KB 650-2NM	650	0,01	0,1	0,01	± 0,03	B	**320,-**	965-216	66,-	963-127	72,-
KB 6500-1NM	6500	0,1	1	0,1	± 0,2	C	**320,-**	965-217	77,-	963-128	88,-
1 **Automatic internal adjustment**											
KBJ 650-2NM *	650	0,01	0,1	0,01	± 0,03	B	**690,-**	965-216	66,-	963-127	72,-

*** ONLY WHILE STOCKS LAST !**

Laboratory specialist with clear graphics display for the most simple user guidance

Large backlit graphic display
All relevant information for the mode you are using is displayed clearly, at a glance and assigned to the keys are assigned on the keyboard overlay



Weighing with tolerance range (checkweighing): Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading

Convenient recipe weighing
you can save up to 5 complete recipes in the memory with up to 7 components of each. The individual components of a mixture can be printed out clearly with their name, weight and grand total

GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification no. etc. Ideal for monitoring and documenting your processes in accordance with your quality management system

Compact laboratory balance KERN PKS

Features

- Based on the KERN bestseller KB, many typical laboratory functions have been expanded to include a clear graphic screen, which shows the relevant information and makes it significantly easier to operate and read the weights off the display
- 1 **Navigation pad** for super quick navigating through the menus
- **40 memories for each operation mode**
- Extensive print formatting – up to 20 lines with fixed and variable texts
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **High mobility**: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- **Ring-shaped draught shield** standard for models with weighing plate size A, weighing space ØxH 90x53 mm
- **Hook for underfloor weighing** of hanging loads standard

Technical data

- Large backlit LCD graphic display, screen diagonal 3,2" (approx. 81 mm)
- Weighing plate dimensions, stainless steel,
  A Ø 81 mm
  B WxD 130x130 mm
  C WxD 150x170 mm, see enlarged picture
- Weighing plate material
  A Plastic, with conductive lacquer
  B, C Stainless steel
- Dimensions housing WxDxH 167x250x85 mm
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, **€ 30,-**
  for models with weighing plate size
  A KERN PCB-A02S05 B KERN PCB-A04S05
  C KERN PCB-A05S05
- **Rechargeable battery pack external**, operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Rechargeable battery pack internal**, operating time up to 10 hours with backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

Modes
① Weighing
② Counting
③ Dispensing
④ Recipe weighing
⑤ Checkweighing
⑥ Totalising with daily total
⑦ Percentage determination
⑧ Animal weighing
⑨ Surface weight

Functions
- Capacity display, with ① - ②, ⑤ - ⑦, ⑨
- Dispensing aid (-/+), with ③, ④
- Net/gross display, permanent, with ①, ③ - ⑤, ⑧ - ⑨
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ① - ⑦
- Input of item or batch description, operator etc., with ① - ⑦
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m², or similar, with ⑨
- Date/time, with ① - ⑨
- Statistical function, with ①
- GLP printout, with ① - ⑨
- Individual printout configuration ① - ⑨

STANDARD

CAL EXT · MEMORY · RS 232 · GLP INTERN · PCS · RECIPE · PERCENT · UNIT · TOL · MOVE · UNDER · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

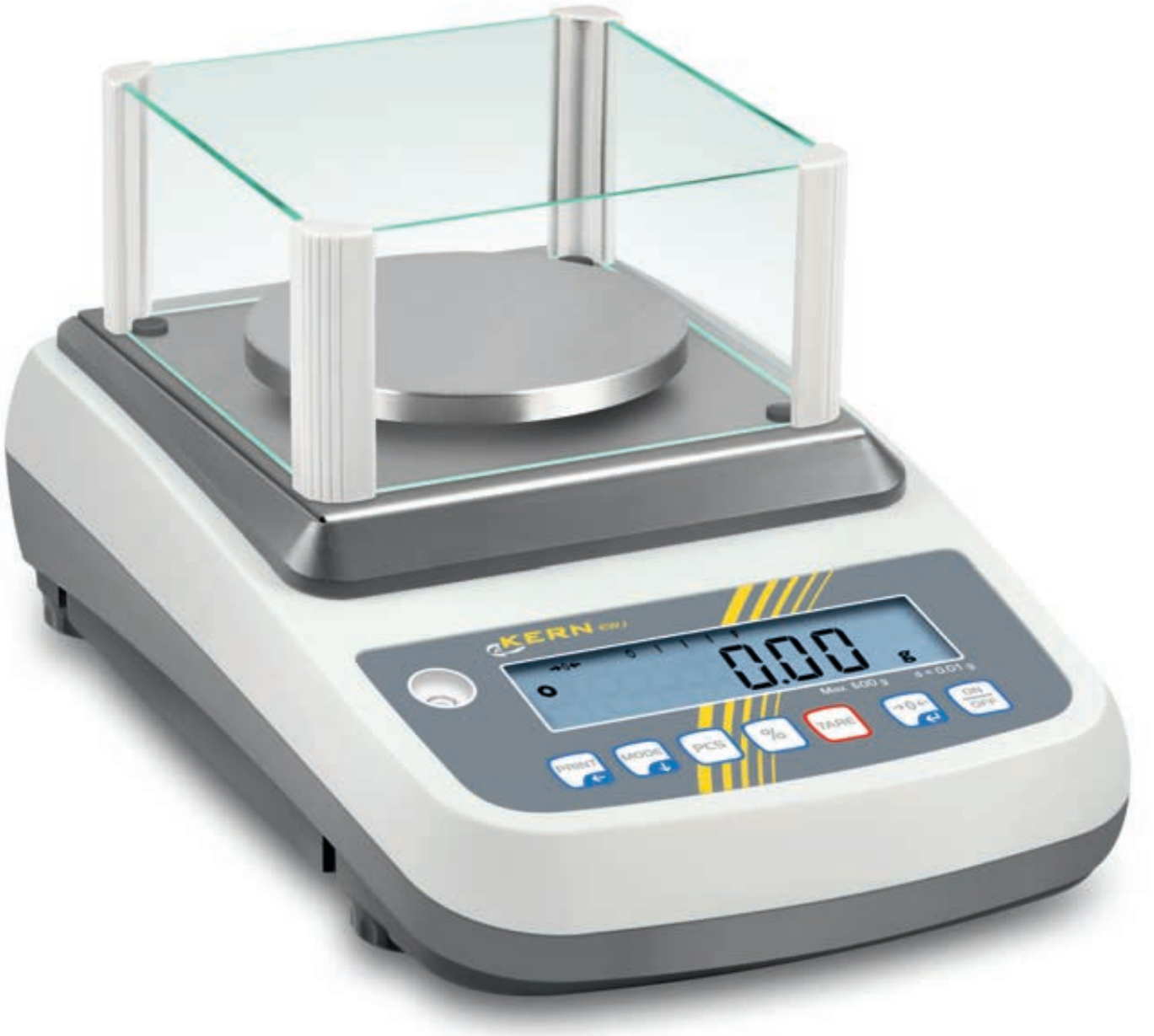
OPTION

ACCU · DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Repro-ducibility g	Linearity g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €
PKS 200-3	200	0,001	0,001	± 0,003	0,001	1,1	A	**420,-**	963-127	72,-
PKS 360-3	360	0,001	0,002	± 0,005	0,001	1,1	A	**430,-**	963-127	72,-
PKS 2000-2	2000	0,01	0,01	± 0,03	0,01	1,5	B	**430,-**	963-127	72,-
PKS 3600-2	3600	0,01	0,02	± 0,05	0,01	1,5	B	**440,-**	963-127	72,-
PKS 10K0.1	10000	0,1	0,1	± 0,3	0,1	1,7	C	**400,-**	963-128	88,-

! **ONLY WHILE STOCKS LAST !**

Compact laboratory balance KERN EWJ



High-quality precision balance with automatic internal adjustment, also with EC type approval [M]

Automatic internal adjustment:
Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing

USB data interfaces for transferring weighing data to the PC, printer, USB sticks, etc.

Compact laboratory balance KERN EWJ

Features

- **Easy to use:** All primary functions have their own key on the keypad
- **Automatic internal adjustment** time-controlled every 4 hours. Guarantees high degree of accuracy and makes the balance independent of its location
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Draught shield** standard for models with weighing plate size [Max] ≤ 600 g weighing space WxDxH 145x160x80 mm

Technical data

- Large backlit LCD display, digit height 16,5 mm
- Weighing plate dimensions, stainless steel,
  A Ø 80 mm
  B Ø 135 mm
  C WxD 155x145 mm
- Overall dimensions WxDxH without draught shield 220x315x90 mm incl. draught shield 220x315x180 mm
- Permissible ambient temperature 5 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN EWJ-A04S05, **€ 30,-**
- **Rechargeable battery pack internal**, operating time up to 15 h without backlight, charging time approx. 4 h, KERN KFB-A01, **€ 35,-**
- **USB interface kit** for bi-directional data exchange between balance and computer. Scope of delivery: USB cable, driver, Software Balance Connection, KERN DBS-A02, **€ 290,-**
- **RS-232/Ethernet adapter** to connect balances with an RS-232 interface to a network via Ethernet, for details see page 180, KERN YKI-01, **€ 390,-**
- **RS-232/WiFi adapte** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, for details see page 180, KERN YKI-03, **€ 780,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL INT · RS 232 · USB (only with DBS-A02) · GLP PRINTER · PCS · RECIPE · % PERCENT · UNIT · B MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION

ACCU · DAkkS +3 DAYS

FACTORY

M +3 DAYS (only EWJ-M)

Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options Verification MII KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
EWJ 300-3	300	0,001	–	–	± 0,003	A	**465,-**	–	–	963-127	72,-
EWJ 3000-2	3000	0,01	–	–	± 0,05	B	**445,-**	–	–	963-127	72,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	B	**410,-**	965-216	66,-	963-127	72,-
EWJ 6000-1M	6000	0,1	1	5	± 0,3	C	**400,-**	965-217	77,-	963-128	88,-

A

3

All-rounder e.g. as precision balance in the laboratory or in harsh industrial applications, also with EC type approval [M]

Features

- Thanks to the **many typical laboratory functions**, such as, for example, recipe function, percentage determination, GLP record keeping, combined with the high level of precision, the KERN 572 is a reliable partner for day-to-day work in the laboratory.
- The **robust version**, typical industrial functions, such as piece-counting, vibration-free weighing and the large weighing ranges also make these balances ideal for all industrial applications, where a high level of precision is required
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **The robust aluminium diecast housing** maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- only 572: **Ring-shaped draught shield** standard (Weighing plate A), weighing space ØxH 157x43 mm
- Hook for underfloor weighing, for models with [d] ≥ 0,01 g, can be retrofitted, KERN 572-A03, **€ 25,-**
- 1 **UNITS:** Further weighing units see the internet (only 572)

Technical data

- Large backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel,
  A Ø 106 mm
  B Ø 150 mm
  C WxD 160x200 mm, see enlarged picture
- Overall dimensions WxDxH 180x310x130 mm
- Permissible ambient temperature
  KERN 572: 10 °C / 40 °C
  KERN 573: 10 °C / 30 °C

Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN 572-A02S05, **€ 35,-**
- 2 only 572: **Rechargeable battery pack external**, operating time up to 25 h, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- 3 **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 150x140x130 mm (only for models with weighing plate size A), KERN 572-A05, **€ 220,-**
- **Suitable printers** see page 177 ff.

STANDARD

CAL EXT · RS 232 · GLP PRINTER (only with printer) · PCS · RECIPE · PERCENT · UNIT (1) · MOVE · UNDER · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION

ACCU (2) · DAkkS +3 DAYS

FACTORY

M +3 DAYS (only 573)

Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Linearity g	Repro-ducibility g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options: Verification MII KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
572-30	240	0,001	–	± 0,003	0,001	2,3	A	**520,-**	–	–	963-127	72,-
572-31	300	0,001	–	± 0,005	0,002	2,3	A	**520,-**	–	–	963-127	72,-
572-32	420	0,001	–	± 0,005	0,002	2,3	A	**540,-**	–	–	963-127	72,-
572-33	1600	0,01	–	± 0,03	0,01	2,3	B	**480,-**	–	–	963-127	72,-
572-35	2400	0,01	–	± 0,03	0,01	2,3	B	**490,-**	–	–	963-127	72,-
572-37	3000	0,01	–	± 0,05	0,02	2,3	B	**490,-**	–	–	963-127	72,-
572-39	4200	0,01	–	± 0,05	0,02	2,3	B	**520,-**	–	–	963-127	72,-
572-45	12000	0,05	–	± 0,15	0,05	2,7	C	**490,-**	–	–	963-128	88,-
572-55	20000	0,05	–	± 0,15	0,1	2,7	C	**520,-**	–	–	963-128	88,-
572-43	10000	0,1	–	± 0,3	0,1	2,7	C	**480,-**	–	–	963-128	88,-
572-49	16000	0,1	–	± 0,3	0,1	2,7	C	**480,-**	–	–	963-128	88,-
572-57	24000	0,1	–	± 0,3	0,1	2,7	C	**490,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
573-34NM	650	0,01	0,1	± 0,02	0,01	2,3	B	**550,-**	965-216	66,-	963-127	72,-
573-46NM	6500	0,1	1	± 0,2	0,1	2,7	C	**550,-**	965-217	77,-	963-128	88,-

A

B

D

- Weighing plate dimensions, stainless steel,
  A Ø 80 mm, B Ø 110 mm
  C Ø 160 mm, see enlarged picture
  D WxD 200x175 mm
- Overall dimensions WxDxH
  without draught shield: 210x340x100 mm
  with draught shield: 210x340x160 mm
- 4 KERN PLS/PLJ-F: Strain gauge
- 5 KERN PLS/PLJ-A: Force compensation
- Permissible ambient temperature 5 °C / 35 °C

Range of precision balances with enormous weighing ranges – ideal for heavy tare containers or large samples

Features

- A **New: PLJ 2000-3A high-quality milligram balance with enormous weighing range up to 2100 g** – ideal for large samples or heavy tare containers
- 2 KERN PLJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- 3 KERN PLS: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 188 ff.
- **Ergonomically optimised keypad** for left and righthanded users
- **Glass draught shield**, standard for models with weighing plate size A. Removable metal cover with pipette opening, weighing space ØxH 150x60 mm

Technical data

- Backlit LCD display, digit height 17 mm

Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN PLJ-A01S05, **€ 60,-**
- 6 **Hook for underfloor weighing** of hanging loads, not included, KERN PLJ-A02, **€ 30,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1.
  The density, is indicated directly on all models with readout [d] = 0,001 g, KERN ALT-A02, **€ 350,-**
  on all models with readout [d] = 0,01 g, KERN PLT-A01, **€ 350,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate, see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL INT 2 · CAL EXT 3 · RS 232 · GLP PRINTER · PCS · RECIPE · PERCENT · TOL · UNDER 6 · MULTI · DMS 4 · FORCE 5 · 1 DAY · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

FACTORY

M +3 DAYS only PLJ-M

Model KERN	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Repro-ducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Net weight approx. kg	Price excl. of VAT ex works €	Optiones Verification MII KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
PLS 420-3F	420	0,001	–	0,001	± 0,004	0,005	B	2,7	**590,-**	–	–	963-127	72,-
PLS 720-3A 6	720	0,001	–	0,001	± 0,002	0,005	B	4,6	**850,-**	–	–	963-127	72,-
PLS 1200-3A 6	1200	0,001	–	0,001	± 0,003	0,005	B	4,7	**870,-**	–	–	963-127	72,-
PLS 4200-2F 6	4200	0,01	–	0,01	± 0,04	0,05	C	3,0	**590,-**	–	–	963-127	72,-
PLS 6200-2A 6	6200	0,01	–	0,01	± 0,03	0,05	C	4,5	**870,-**	–	–	963-128	88,-
PLS 8000-2A 6	8200	0,01	–	0,01	± 0,04	0,01	C	4,7	**1050,-**	–	–	963-128	88,-
PLS 20000-1F 6	20000	0,1	–	0,1	± 0,4	0,5	D	3,5	**590,-**	–	–	963-128	88,-
PLJ 420-3F	420	0,001	–	0,001	± 0,003	0,005	B	3,5	**700,-**	–	–	963-127	72,-
PLJ 720-3A 6	720	0,001	–	0,001	± 0,002	0,001	B	4,9	**990,-**	–	–	963-127	72,-
PLJ 1200-3A 6	1200	0,001	–	0,001	± 0,003	0,005	B	5,0	**1005,-**	–	–	963-127	72,-
PLJ 2000-3A NEW 6	2100	0,001	-	0,002	± 0,004	0,05	A	6,5	**1700,-**	–	–	963-127	72,-
PLJ 4200-2F	4200	0,01	–	0,02	± 0,04	0,05	C	3,8	**690,-**	–	–	963-127	72,-
PLJ 6200-2A 6	6200	0,01	–	0,01	± 0,03	0,01	C	5,3	**990,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.													
PLJ 720-3AM	720	0,001	0,01	0,001	± 0,002	0,001	B	4,9	**1050,-**	965-216	66,-	963-127	72,-
PLJ 3000-2FM NEW	3100	0,01	0,1	0,01	± 0,03	0,05	C	4,0	**660,-**	-	-	963-127	72,-
PLJ 6200-2AM	6200	0,01	0,1	0,01	± 0,03	0,01	C	5,2	**1050,-**	965-217	77,-	963-128	88,-

NEW New model

NEW

The new standard in the laboratory with robust tuning fork weighing system

Features

- 1 only PNJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- 2 only PNS: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **High-quality tuning fork measuring system** for steady weight values and continuous weighing
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Totalising** of pieces when counting
- **Compact size**, practical for small spaces
- Large stainless steel-weighing plate, removable
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed, for models with weighing plate size A, weighing space WxDxH 172x171x160 mm

Technical data

- Large LCD display, digit height 16,5 mm
- Weighing plate dimensions, stainless steel,
  A Ø 140 mm
  B WxD 190x190 mm, see enlarged picture
- Overall dimensions WxDxH for models with weighing plate size
  A 202x293x266 mm
  B 196x293x89 mm
- Net weight for models with weighing plate size
  A Net weight approx. 4,2 kg
  B Net weight approx. 3,5 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN PNJ-A01S05, **€ 50,-**
- 3 **Precious stones plate**, aluminium with practical spout, WxDxH 83x66x23 mm, KERN AEJ-A05, **€ 40,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **RS-232/Bluetooth adapter** to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., for details see page 180, KERN YKI-02, **€ 260,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, for details see page 180, KERN YKI-03, **€ 780,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL INT 2 | CAL EXT 1 | GLP INTERN | RS 232 | PCS | PERCENT | UNIT | TOL | MULTI | T-FORK | 1 DAY

OPTION

DAkkS +3 DAYS

FACTORY

M +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
PNS 600-3	620	0,001	–	–	± 0,004	A	**590,-**	–	–	963-127	72,-
PNS 3000-2	3200	0,01	–	–	± 0,02	B	**580,-**	–	–	963-127	72,-
PNS 12000-1	12000	0,1	–	–	± 0,2	B	**570,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
PNJ 600-3M	620	0,001	0,01	0,1	± 0,004	A	**720,-**	965-201 I	110,-	963-127	72,-
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	B	**680,-**	965-216 II	66,-	963-127	72,-
PNJ 12000-1M	12000	0,1	1	5	± 0,2	B	**680,-**	965-217 II	77,-	963-128	88,-

1

3

5

Process reliability thanks to automatic internal adjustment and EC type approval [M]

Features

- **Automatic internal adjustment** in the case of temperature change ≥ 3 °C and time-controlled every 3 hours
- 1 **Draught shield** standard (on all models with readout [d] = 0,001 g). Weighing space WxDxH 140x140x65 mm

PLJ -C:

- 2 Weighing principle: Force compensation
- **Alibi memory:** paperless archive of weighing results, see page 214
- **Internal memory** for up to 999 weighing results, 1000 items, 100 container weights, 100 users
- **USB interface** for transferring weighing data to the PC, printer, USB sticks etc.

PLJ -GM:

- 3 Weighing principle: Strain gauge
- Rechargeable battery pack internal, standard, operating time up to 35 h, charging time approx. 12 h

Technical data

- Backlit LCD display
  PLJ-C: digit height 17 mm
  PLJ-G: digit height 19 mm
- Weighing plate dimensions, stainless steel, WxD
  A 128x128 mm
  B 195x195 mm, see enlarged picture
- Overall dimensions WxDxH
  without draught shield 206x335x85 mm
  incl. draught shield 206x335x157 mm
- Net weight approx. 2,95 kg
  (incl. draught shield approx. 4 kg)
- Permissible ambient temperature
  15 °C / 30 °C

Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN ALS-A02S05, **€ 35,-**
- 5 **Set for density determination** of liquids and solids with density ≥ 1, only suitable for models with readout [d] = 0,001 g. The density is indicated directly on the display, sim. to illustration. For interesting facts about density determination see page 214, KERN PLS-A01, **€ 530,-**
- only PLJ-C: **WLAN interface** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN PLJ-A06, **€ 135,-**
- only PLJ-C: **Alibi memory software** for viewing and saving data from the alibi memory onto a PC connected to the system, KERN PET-A16, **€ 300,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD — OPTION — FACTORY

CAL INT · ALIBI (only PLJ-C) · RS 232 · USB (only PLJ-C) · GLP INTERN (only PLJ-C) · GLP PRINTER (only PLJ-C) · PCS · RECIPE · UNIT · TOL · MOVE · UNDER · ACCU · MULTI 4 · DMS · FORCE 3 · 1 DAY 2 · 3 YEARS WARRANTY · DAkkS +3 DAYS · WLAN · M +3 DAYS

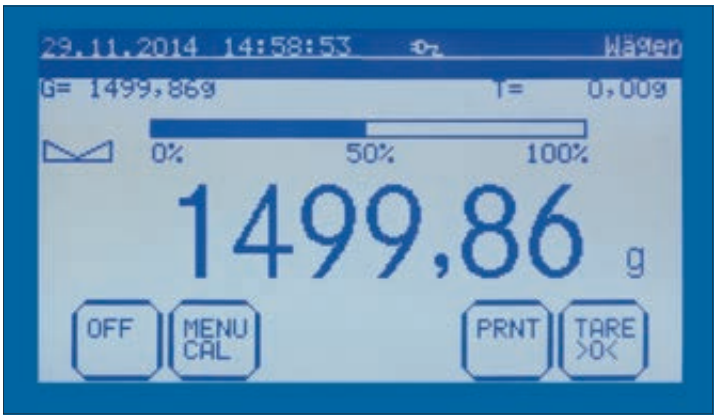
Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Repro-ducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Options: Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
PLJ 300-3CM	360	0,001	0,01	0,001	± 0,004	0,005	A	**710,-**	965-216	66,-	963-127	72,-
PLJ 600-3CM	600	0,001	0,01	0,002	± 0,004	0,005	A	**750,-**	965-216	66,-	963-127	72,-
PLJ 700-3CM	750	0,001	0,01	0,02	± 0,004	0,005	A	**730,-**	965-216	66,-	963-127	72,-
PLJ 600-2GM	600	0,01	0,1	0,02	± 0,02	0,05	A	**540,-**	965-216	66,-	963-127	72,-
PLJ 3000-2CM	3500	0,01	0,1	0,01	± 0,04	0,05	B	**710,-**	965-216	66,-	963-127	72,-
PLJ 6000-1GM	6000	0,1	1	0,2	± 0,2	0,5	B	**540,-**	965-217	77,-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Internal memory

- Ring memory for up to 49,152 measuring results (744 measuring results per day!)
- Saved measuring results cannot be changed or cleared. If the maximum memory capacity is reached, then the oldest value will be overwritten
- In addition to the measuring result, the date, time, tare value, a sequential number and the serial number of the balance are also saved.
- Saved measuring results can be searched and recalled easily

Touchscreen laboratory and industrial scale with enormous range of functions

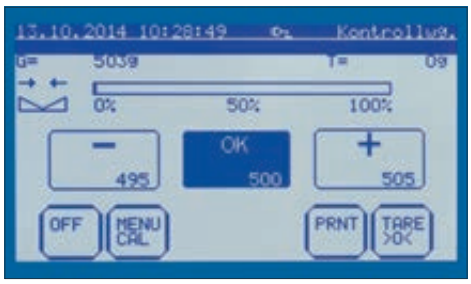


Display at full size, operating mode weighing

Innovative touchscreen: touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading

Advantages:
- The menu and processes are self-explanatory
- No more errors or lost time through keys wich have several functions assigned to them or unclear markings
- Large keys, which can also be operated when wearing gloves
- More efficient, faster and safer working

80 memories for each mode
e.g. for Checkweighing, PRE-TARE, reference weight, target value when dispensing, item descriptions, user name, weights for tare containers, etc. Easy to enter using the large-scale keypad



Weighing with tolerance range (checkweighing): Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading

Convenient recipe weighing
you can save up to 99 complete recipes in the memory with up to 10 components each. The individual components of a mixture can be printed out clearly with their name, weight and grand total

Precision balance KERN PKT

Features

- **Convenient recipe-weighing:** the recipes can be generated easily in an Excel list in the PC and transferred to the balance using the RS-232 interface. Alternatively, the recipes can also be entered directly using the key-pad. If one recipe ingredient is overweight, then the practical recipe adjustment function for when dosages are exceeded automatically calculates the new target weights of the other ingredients. The actual and target values and the proportionate percentage can then be printed
- **Multiplier function:** recipes with the ingredient weights recorded as percentage values can easily be replicated by entering a new target weight. The ideal solution for the preparation of larger containers, bulk packs etc.
- **16 print forms** which can store up to 20 different information, such as, e.g., date, time, operator, item, net, tare, gross, PCS, target weight, PRE-TARE etc. The print forms can be generated easily in an Excel list in the PC and transferred to the balance using the RS-232 interface
- **Rapid function** for shortened stabilisation time with reduced readout
- **Ring-shaped draught shield** standard for models with weighing plate size A, weighing space ØxH 157x57 mm
- **Hook for underfloor weighing**, standard on all models with readout [d] = 0,001 g

Technical data

- Large backlit LCD touch display, digit height 15 mm, screen diagonal 4,3" (approx. 109 mm), WxH 91x54 mm
- Weighing plate dimensions, stainless steel, A Ø 106 mm, B Ø 150 mm C WxD 160x200 mm, see enlarged picture
- Overall dimensions WxDxH 180x310x90 mm
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN 572-A02S05, **€ 35,-**
- **Rechargeable battery pack external**, operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- 1 **Large glass draught shield** with 3 sliding doors. Weighing space WxDxH 150x140x130 mm (only for models with weighing plate size A), KERN 572-A05, **€ 220,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1, 2 for models with weighing plate size A, KERN YDK-01, **€ 205,-** 3 for models with weighing plate size B, KERN YDK-02, **€ 310,-**
- **RS-232/Ethernet adapter**, for details see page 180, KERN YKI-01, **€ 390,-**
- **RS-232/USB adapter**, for details see page 181, KERN AFH 12, **€ 85,-**
- **Hook for underfloor weighing**, for models with [d] ≥ 0,01 g, can be retrofitted, KERN 572-A03, **€ 25,-**
- **Suitable printers** see page 177 ff.

Modes

① Weighing
② Counting
③ Dispensing
④ Recipe weighing
⑤ Checkweighing
⑥ Totalising with daily total
⑦ Percentage determination
⑧ Animal weighing
⑨ Surface weight
⑩ Density determination, only with A, B
⑪ Rapid function

Functions

- Capacity display, with ① - ②, ⑤ - ⑦, ⑨ - ⑪
- Dispensing aid (subtractive/additive), with ③, ④
- Net/gross display, permanent, with ①, ③ - ⑤, ⑧ - ⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ① - ⑦, ⑪
- Input of item or batch description, operator etc., with ① - ⑦
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m², or similar, with ⑨
- Date/time, with ① - ⑪
- Statistical function, with ①
- GLP printout, with ① - ⑪
- Individual formatting of up to 16 printer forms, recipes, operating mode master data in MS Excel, import via RS-232, for examples, see the internet, with ① - ⑪

STANDARD

CAL EXT · MEMORY · RS 232 · GLP INTERN · PCS · RECIPE · PERCENT · UNIT · TOL · MOVE · UNDER · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION

ACCU · DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Repro-ducibility g	Linearity g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	€
PKT 300-3	300	0,001	0,002	± 0,005	0,001	2,3	A	**740,-**	963-127	72,-
PKT 420-3	420	0,001	0,002	± 0,005	0,001	2,3	A	**770,-**	963-127	72,-
PKT 3000-2	3000	0,01	0,02	± 0,05	0,01	2,3	B	**740,-**	963-127	72,-
PKT 4200-2	4200	0,01	0,02	± 0,05	0,01	2,3	B	**770,-**	963-127	72,-
PKT 12K0.05	12000	0,05	0,05	± 0,15	0,05	2,7	C	**630,-**	963-128	88,-
PKT 16K0.1	16000	0,1	0,1	± 0,3	0,1	2,7	C	**630,-**	963-128	88,-
PKT 24K0.1	24000	0,1	0,1	± 0,3	0,1	2,7	C	**650,-**	963-128	88,-

! **ONLY WHILE STOCKS LAST !**

The classic balance with robust tuning fork measuring system

GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification no. etc. Ideal for monitoring and documenting your processes in accordance with your quality management system

Percentage determination: makes it possible to store a given weight value (100 %) and to determine deviations from this target value

Weighing with tolerance range (checkweighing): a visual signal helps with portioning, dispensing or grading

1

3

4

B

C

Features

- 1 only EG-NM: **Internal adjustment** by rotary knob on the side. Guarantees high degree of accuracy and makes the balance independent of its location
- 2 only EW-NM: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Totalising** of pieces when counting
- **Draught shield** standard for models with weighing plate size A. Removable metal cover with pipette opening, weighing space WxDxH 158x130x78 mm

Technical data

- Large LCD display, digit height 17 mm
- Weighing plate dimensions, stainless steel,
  A Ø 118 mm, see enlarged picture
  B WxD 170x142 mm
  C WxD 180x160 mm
- Overall dimensions (without draught shield) WxDxH
  A, B 182x235x75 mm
  C 192x265x87 mm
- Net weight approx. 1,3 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items. For models with weighing plate size
  A, B KERN EG-A05S05, **€ 50,-**
  C KERN EG-A09S05, **€ 50,-**
- **Precious stones plate**, aluminium with practical spout, WxDxH 83x66x23 mm, KERN AEJ-A05, **€ 40,-**
- 4 **Rechargeable battery pack internal**, operating time up to 32 h without backlight, charging time approx. 12 h. AUTO-OFF function to preserve the battery, can be switched off. For models with weighing plate size
  A, B KERN EG-A04, **€ 110,-**
  C KERN EG-A06, **€ 110,-**
- 3 **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed, weighing space WxDxH 150x140x130 mm, can be retrofitted for models with weighing plate size A, KERN EG-A03, **€ 235,-**
- **Loop for underfloor weighing**, not included, for models with weighing plate size
  A, B KERN EG-A07, **€ 40,-**
  C KERN EG-A08, **€ 40,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

1 2

OPTION

FACTORY

only EG-NM

Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Repro-ducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
EW 220-3NM	220	0,001	–	0,001	± 0,002	A	**620,-**	–	–	963-127	72,-
EW 420-3NM	420	0,001	–	0,001	± 0,003	A	**690,-**	–	–	963-127	72,-
EW 620-3NM	620	0,001	–	0,001	± 0,003	A	**770,-**	–	–	963-127	72,-
EW 820-2NM	820	0,01	–	0,01	± 0,01	B	**540,-**	–	–	963-127	72,-
EW 2200-2NM	2200	0,01	–	0,01	± 0,01	C	**660,-**	–	–	963-127	72,-
EW 4200-2NM	4200	0,01	–	0,01	± 0,02	C	**740,-**	–	–	963-127	72,-
EW 6200-2NM	6200	0,01	–	0,01	± 0,03	C	**810,-**	–	–	963-128	88,-
EW 12000-1NM	12000	0,1	–	0,1	± 0,2	C	**635,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
EG 220-3NM	220	0,001	0,01	0,001	± 0,002	A	**760,-**	965-216 II	66,-	963-127	72,-
EG 420-3NM	420	0,001	0,01	0,001	± 0,003	A	**830,-**	965-216 II	66,-	963-127	72,-
EG 620-3NM	620	0,001	0,01	0,001	± 0,004	A	**930,-**	965-201 I	110,-	963-127	72,-
EG 2200-2NM	2200	0,01	0,1	0,01	± 0,01	C	**820,-**	965-216 II	66,-	963-127	72,-
EG 4200-2NM	4200	0,01	0,1	0,01	± 0,02	C	**880,-**	965-216 II	66,-	963-127	72,-

PREMIUM
★★★

Multifunctional laboratory balance with single-cell weighing system and EC type approval [M]

2 only PBS: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price

Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight

Percentage determination: makes it possible to store a given weight value (100 %) and to determine deviations from this target value

3

4

5

Features

- 1 only PBJ: **Automatic internal adjustment** in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- **Metal housing:** robust and sturdy
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading
- **Totalising** of individual weighing results
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- **Automatic data output to the PC/printer** each time the balance is steady
- 3 **Draught shield** standard, on all models with readout [d] = 0,001 g, weighing space WxDxH 180x193x87 mm

Technical data

- Large backlit LCD display, digit height 14 mm
- Weighing plate dimensions, stainless steel, WxD
  - A 108x105 mm
  - B 180x190 mm, see enlarged picture
- Overall dimensions (without draught shield) WxDxH 200x320x85 mm
- Net weight approx. 3 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, **€ 35,-**
  for models with weighing plate size
  - A KERN PBS-A01S05
  - B KERN PBS-A02S05

5 Single-cell advanced technology:

- **Fully automatic manufactured weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time: 3 sec**
- **Shock proof construction**
- **High corner load performance**

- 4 **Set for density determination** for models with weighing plate size
  - A KERN PBS-A04, **€ 1580,-**
  - B KERN PBS-A03, **€ 1580,-**

  For interesting facts about density determination 214
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL INT (1) · CAL EXT (2) · RS 232 · GLP PRINTER · PCS · RECIPE · PERCENT · UNIT · TOL · MOVE · UNDER · MULTI · SC TECH (5) · 1 DAY · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

FACTORY

M +3 DAYS only PBJ

Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Repro-ducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
PBS 620-3M	620	0,001	–	–	0,001	± 0,002	A	**1360,-**	–	–	963-127	72,-
PBS 4200-2M	4200	0,01	–	–	0,01	± 0,02	B	**1150,-**	–	–	963-127	72,-
PBS 6200-2M	6200	0,01	–	–	0,01	± 0,02	B	**1380,-**	–	–	963-128	88,-
PBS 8200-1M *	8200	0,1	-	-	0,1	± 0,2	B	**490,-** ↓	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
PBJ 620-3M	620	0,001	0,01	0,1	0,001	± 0,002	A	**1590,-**	965-201 I	110,-	963-127	72,-
PBJ 4200-2M	4200	0,01	0,1	0,5	0,01	± 0,02	B	**1420,-**	965-216 II	66,-	963-127	72,-
PBJ 6200-2M	6200	0,01	0,1	1	0,01	± 0,02	B	**1720,-**	965-202 I	110,-	963-128	88,-
PBJ 8200-1M	8200	0,1	1	5	0,1	± 0,2	B	**1410,-**	965-217 II	77,-	963-128	88,-

! * **ONLY WHILE STOCKS LAST** ↓ Price reduction

C

1

Robust laboratory and industrial precision scale for heavy items, with EC type approval [M]

Features

- 2 only PEJ: **Automatic internal adjustment**
- 3 only PES: **Adjusting program CAL** for quick setting of the balance accuracy
- **Metal housing:** robust and sturdy
- **Weighing with tolerance range (checkweighing):** Input of 2 upper and 2 lower limit values through 4 arrow keys. An audible and visual signal assists with the portioing, dispensing or grading
- 1 **Draught shield** standard on all models with readout [d] = 0,001 g, weighing space WxDxH 170x150x100 mm. Removable metal cover with pipette opening
- **Underfloor weighing:** load support with hook on the underside of the balance

Technical data

- Fluorescent display, bright with high contrast, digit height 13 mm
- Weighing plate dimensions, stainless steel, WxD
  - A 140x120 mm
  - B 200x200 mm, see enlarged picture
  - C 250x220 mm
- Overall dimensions (without draught shield) WxDxH
  - A 220x330x90 mm
  - B 220x333x93 mm
  - C 260x330x113 mm
- Permissible ambient temperature 10 °C / 30 °C

Accessories

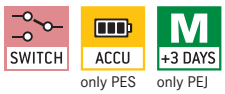
- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items (not for KERN PES 31000-1M), KERN PES-A04S05, **€ 55,-**
- only PES: **Rechargeable battery pack internal**, operating time up to 6 h, charging time approx. 15 h (internal charging via mains adapter), KERN PES-A01, **€ 610,-**
- **Relay output** with 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, **€ 480,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **Suitable printers** see page 177 ff.

STANDARD

2 | 3 | 2 pieces | only with printer

OPTION

FACTORY



only PES | only PEJ

Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Repro-ducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options Verification MC KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
PES 620-3M	620	0,001	–	0,001	± 0,003	4	A	**1280,-**	–	–	963-127	72,-
PES 2200-2M	2200	0,01	–	0,01	± 0,02	4	B	**830,-**	–	–	963-127	72,-
PES 4200-2M	4200	0,01	–	0,01	± 0,02	4	B	**980,-**	–	–	963-127	72,-
PES 6200-2M	6200	0,01	–	0,01	± 0,03	4	B	**1210,-**	–	–	963-128	88,-
PES 15000-1M	15000	0,1	–	0,1	± 0,2	4	B	**1190,-**	–	–	963-128	88,-
PES 31000-1M	31000	0,1	–	0,1	± 0,4	8,9	C	**1960,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
PEJ 620-3M	620	0,001	0,01	0,001	± 0,003	6	A	**1480,-**	965-201 I	110,-	963-127	72,-
PEJ 2200-2M	2200	0,01	0,1	0,01	± 0,02	6	B	**1040,-**	965-216 II	66,-	963-127	72,-
PEJ 4200-2M	4200	0,01	0,1	0,01	± 0,02	6	B	**1190,-**	965-216 II	66,-	963-127	72,-

Premium precision balance KERN PET

PREMIUM ★★★

KERN PET [d] = 0,001 g

KERN PET [d] = 0,01 g

Premium touchscreen precision balance with the complete range of functions for demanding processes

Individual print formats: Printouts can be individually adjusted depending on operating mode, application or your own requirements, directly at the balance or the PC. In this way the data related to these processes is documented accurately, efficiently and clearly

Convenient recipe-weighing: complete recipes with all recipe ingredients and associated target values, names, tolerances, tare weights etc. can be stored. If one recipe ingredient is overweight, then the practical recipe adjustment function for when dosages are exceeded automatically calculates the new target weights of the other ingredients

Modes
① Weighing
② Piece counting
③ Checkweighing
④ Dispensing
⑤ Percentage determination
⑥ Density
⑦ Animal weighing
⑧ Recipe weighing
⑨ Statistics
⑩ Pipette calibration
⑪ Differential weighing
⑫ Statistical Quality Control (SQC)

Funcitons
- Capacity display, with ① - ⑫
- Dispensing assistance, with ④, ⑤
- Net/Gross display, with ① - ⑫
- Variable reference quantity, with ②
- Automatic reference optimization, with ②
- Tare deduction automatic, with ① - ⑫
- Entering of item or batch description, operator etc., with ① - ⑫
- Freely programmable weighing unit, with ① - ⑫
- Date/time, with ① - ⑫
- Statistical function, as stand-alone application
- GLP printout, with ① - ⑫
- Individual formatting of print-outs, with ① - ⑫

3 rapid assignment keys
for frequently recurring applications, functions, settings or memory contents

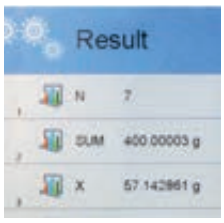
2 infrared sensors
to initiate functions such as TARE, zeroing, for carrying out, starting or aborting adjustment, calling up database or menu and much more, without having to touch the balance – just give it a wave!

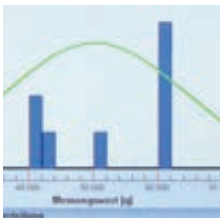
Customised formatting of printout
a range of printouts which can be edited easily at the PC

High level of connectivity
- 1 x Ethernet
- 2 x RS-232
- 2 x USB
  e.g. for data exchange or connecting barcode or RFID scanners
- Digital I/O (4 in/4 out) e.g. to control machines and plants
- 1 x additional display
- 1 x WLAN (selected models)

Individual user settings can be stored
- User name and number
- Password
- Authorisations
- Menu language (DE, GB, FR, IT, ES, PL)
- User profiles
- Additional guest mode for users without user log-in

Alibi memory
Electronic archiving of weighing results,
see also page 214





Statistical function
for statistical analysis of series of measurements. The graphic display of measurements can be used by the operator to check and evaluate their results

Intuitive use, increases efficiency and saves costs
Easy capture of article data at the PC, call up of items on the balance using the connected barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory.

Innovative touchscreen
Large backlit and touch-sensitive LCD screen with digit height 17 mm, screen size 5.7" (approx. 145 mm), WxH 115x86 mm. Dimensions of display device WxDxH 208x71x150 mm.

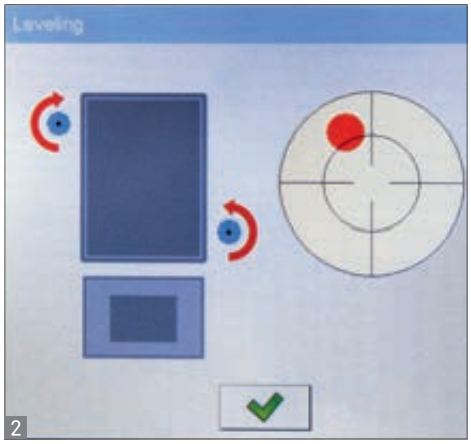
Convenient recipe-weighing
complete recipes with all recipe ingredients and associated nominal values, names, tolerances, tare weights etc. can be stored. If one recipe ingredient is overweight, then the practical recipe adjustment function for when dosages are exceeded automatically calculates the new target weights of the other ingredients. Recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc. (Multiplier function)

Enormous database
with optional software KERN PET-A01, this can be filled in easily at the PC. Particularly beneficial when counting a large number of individual items, as part of a stocktacking, for checkweighing, recording recipes etc.

Data exchange via USB
to download software updates, export recipes or weighing results, export/import databases, balance settings, data exchange between individual balances and much more

Premium precision balance KERN PET

1



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Features

- **Intuitive operation, increases efficiency and saves costs:** Easy entering of item data at the PC, call up of items on the balance using the connected 1 barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory
- **Individual user settings can be stored**
  User name and number
  - Password
  - Menu language
  - User profile
  - Additional guest mode for users without log-in
  - Authorisations, e.g. capture or modification of a recipe only with authorisation, recipe weighing can be carried out by the user
- **Best-before dates** can be stored and printed for each item
- **Difference determination:** Weighing a sample before and after a machining process and automatic output of the difference value
- **Multiplier function:** recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc.
- **Enormous database (1 GB)** for thousands of weighing results, items, recipes, recipe ingredients, container weights, user data etc.
- **Alibi memory:** electronic archiving of weighing results, see also page S. 214
- 2 **Electronic level indicator** continuously checks the position of the balance, sounds an alarm when the device is out of balance and gives visual instructions on how to correct the situation
- 3 **High level of process reliability:** you can define limit values for selected parameters, such as, for example, temperature, levelling, minimum load, adjustment, etc. When the value falls outside these limits, a warning message will be issued and this can be stored with the measuring result
- **Draught shield** standard for models with weighing plate size A, weighing space WxDxH 140x140x65 mm

Technical data

- Backlit and touch-sensitive LCD display with digit height 21 mm, screen diagonal 5,7" (approx. 145 mm), WxH 115x86 mm. Dimensions of display device WxDxH 215x156x71 mm
- Hook for underfloor weighing standard
- Weighing plate dimensions, stainless steel, WxD
  A 128x128 mm
  B 195x195 mm
- Overall dimensions WxDxH
  A 431x221x168 mm
  B 431x221x99 mm
- Permissible ambient temperature 15 °C / 35 °C

Accessories

- **RS-232 barcode scanner,** hand-held version, dimensions WxDxH 152x84x63 mm, for details see page 184, KERN PET-A05, **€ 350,-**
- **USB barcode scanner,** hand-held version, dimensions WxDxH 152x84x63 mm, for details see page 184, KERN PET-A09, **€ 350,-**
- **USB keyboard** for easy capture of items, descriptions etc., dimensions WxDxH 440x128x24 mm, for details see page 185, KERN PET-A06, **€ 45,-**
- **Second display,** dimensions WxDxH 150x33x80 mm, for details see page 185, KERN PET-A03, **€ 210,-**
- **Direct thermal label printer,** software for easy editing of (adhesive) labels included, for details see page 184, KERN PET-A13, **€ 980,-**
- **Thermal transfer and direct thermal label printer,** software for easy editing of (adhesive) labels included, for details see page 184, KERN PET-A14, **€ 1000,-**
- **Software for database management,** for convenient maintenance of item data at the PC. Data transfer to the balance using the interface cable, for details see page 184, KERN PET-A01, **€ 300,-**
- **Set for density determination** of liquids and solids ≤/≥ 1, for details see page 183, KERN YDB-03, **€ 520,-**

STANDARD — OPTION — FACTORY

CAL INT · ALIBI · RS 232 · LAN · USB · SWITCH · GLP INTERN · PCS · RECIPE · PERCENT · UNIT · TOL · MOVE · UNDER · MULTI · FORCE · 1 DAY · 3 YEARS WARRANTY · DAkkS +3 DAYS · M +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Weighing plate	Price excl. of VAT ex works €	Options Verification MII KERN	 €	DAkkS-Calibr. Certificate DKD KERN	 €
PET 600-3M	600	0,001	0,01	0,02	A	**2500,-**	965-216	66,-	963-127	72,-
PET 1000-3M	1000	0,001	0,01	0,02	A	**2800,-**	965-216	66,-	963-127	72,-
PET 2500-2M	2500	0,01	0,1	0,5	B	**2400,-**	965-216	66,-	963-127	72,-
PET 6000-2M	6000	0,01	0,1	0,5	B	**2600,-**	965-217	77,-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Quick-Finder Analytical balances

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL INT	CAL EXT	MEMORY	RS 232	LAN	RECIPE
					For an explanation on the pictos, see the front flap							
0,01 mg	100 g	**AET 100-5AM**	**6500,-**	50	21		●		●	●	●	●
0,01 mg	101 g	**ABT 100-5M**	**1980,-**	49	1	○	●			●		●
0,01 | 0,1 mg	42 | 120 g	**ABT 120-5DM**	**2170,-**	49	1	○	●			●		●
0,01 | 0,1 mg	82 | 220 g	**AEJ 200-5CM**	**2050,-**	48	1	○	●		●	●		●
0,01 | 0,1 mg	82 | 220 g	**ABT 220-5DM**	**2370,-**	49	1	○	●			●		●
0,01 | 0,1 mg	82 | 220 g	**AET 200-5DAM**	**7400,-**	50	21		●		●	●	●	●
0,1 mg	82 g	**ABS 80-4N**	**970,-**	47	1			●		○		●
0,1 mg	82 g	**ABJ 80-4NM**	**1050,-**	47	1	○	●			○		●
0,1 mg	120 g	**ABS 120-4N**	**1030,-**	47	1			●		○		●
0,1 mg	120 g	**ABJ 120-4NM**	**1080,-**	47	1	○	●			○		●
0,1 mg	120 g	**ABT 120-4M**	**1490,-**	49	1	○	●			●		●
0,1 mg	160 g	**ALS 160-4A**	**930,-**	46	1			●		●		●
0,1 mg	160 g	**ALJ 160-4A**	**1030,-**	46	1			●		●		●
0,1 mg	160 g	**ALJ 160-4AM**	**1050,-**	46	1	○	●			●		●
0,1 mg	160 g	**AES 100-4C**	**1070,-**	48	1			●	●	●		●
0,1 mg	160 g	**AEJ 100-4CM**	**1150,-**	48	1	○	●		●	●		●
0,1 mg	210 g	**ADB 200-4**	**910,-**	45	1			●		●		
0,1 mg	220 g	**ABS 220-4N**	**1070,-**	47	1			●		○		●
0,1 mg	220 g	**AES 200-4C**	**1120,-**	48	1			●	●	●		●
0,1 mg	220 g	**ABJ 220-4NM**	**1170,-**	47	1	○	●			○		●
0,1 mg	220 g	**AEJ 200-4CM**	**1200,-**	48	1	○	●		●	●		●
0,1 mg	220 g	**ABT 220-4M**	**1770,-**	49	1	○	●			●		●
0,1 mg	220 g	**AET 200-4NM**	**2800,-**	50	21	○	●		●	●	●	●
0,1 mg	250 g	**ALS 250-4A**	**980,-**	46	1			●		●		●
0,1 mg	250 g	**ALJ 250-4A**	**1060,-**	46	1			●		●		●
0,1 mg	250 g	**ALJ 250-4AM**	**1090,-**	46	1	○	●			●		●
0,1 mg	310 g	**ALJ 310-4A**	**1290,-**	46	1		●			●		●
0,1 mg	320 g	**ABS 320-4N**	**1240,-**	47	1			●		○		●
0,1 mg	320 g	**ABJ 320-4NM**	**1340,-**	47	1	○	●			○		●
0,1 mg	320 g	**ABT 320-4M**	**1980,-**	49	1	○	●			●		●
0,1 mg	510 g	**ALJ 500-4A**	**1950,-**	46	1	○	●			●		●
0,1 mg	510 g	**AET 500-4**	**6100,-**	50	21		●		●	●	●	●

□ = News 2016 ● = Standard ○ = Option

Your product specialist's recommendation:

- **Cable-based display device offers maximum flexibility of operation**
- **Ergonomically optimised design**
- **Large weighing space for high-volume samples or big weighing pans**

Bettina Hampe
Product specialist Analytical balances

Tel. +49 [0] 7433 9933 - 147
Fax +49 [0] 7433 9933 - 29147
hampe@kern-sohn.com

KERN ADB

only € **910,-**

▸ page 45

NEW

1

2

3

The price leader in analytical balances

Features

- Optimised price performance ratio, ideal for laboratories, universities, schools
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Also ideal for large, light samples such as polystyrene, tissue, plastic parts, etc.
- The **wired display device** can be adjusted differently to suit the ergonomic requirements of the user or the workplace. In addition, it eliminates any heat effect on the weighing system from the display device
- **Ergonomically optimised keypad** for left and righthanded users
- **Percentage determination:** makes it possible to store a given weight value (100 %) and to determine deviations from this target value
- **Adjusting program CAL**, external test weights at an additional price, see page 188 ff.

Technical data

- Large backlit LCD display with digit height 19,6 mm
- Dimensions of weighing plate, stainless steel, Ø 90 mm
- Overall dimensions WxDxH 190x475x295 mm
- Weighing space WxDxH 215x205x295 mm
- External mains adapter standard, EU, GB, AUS
- Cable length of display device approx. 0,5 m
- Permissible ambient temperature 10 °C / 30 °C
- Net weight approx. 6 kg

Accessories

- **Protective working cover**, standard. Can be re-ordered, scope of delivery 5 pieces, KERN ADB-A01S05, **€ 30,-**
- 1 **Ioniser** to neutralise electrostatic charge, see page 183, KERN YBI-01, **€ 1350,-**
- 2 **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 183, KERN YPS-03, **€ 900,-**
- 3 **Precious stones plate**, aluminium with practical spout, WxDxH 83x66x23 mm, weighing space, KERN AEJ-A05, **€ 40,-**
- **Suitable printers** and further, extensive accessories from page 177

STANDARD

CAL EXT · RS 232 · GLP PRINTER · PCS · % PERCENT · UNIT · A MULTI · N T S FORCE · 1 DAY · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] mg	Reproducibility mg	Linearity mg	Min. piece weight Counting mg/piece	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate** DKD KERN	 €
ADB 200-4	210	0,1	0,2	± 0,4	0,1	**910,-**	963-101	138,-

3

4

Range of analytical balances, with large weighing ranges, also with EC type approval [M]

Features

- 1 only ALJ-A: **Automatic internal adjustment** in the case of a change in temperature > 1,5 °C
- 2 only ALS-A: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 188 ff.
- **Ergonomically optimised keypad** for left and righthanded users
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed
- **Compact size**, practical for small spaces
- **Percentage determination:** makes it possible to store a given weight value (100 %) and to determine deviations from this target value

Technical data

- Backlit LCD display, digit height 17 mm
- Weighing plate dimensions, stainless steel, Ø 80 mm
- Overall dimensions (incl. draught shield) WxDxH 210x340x330 mm
- Weighing space WxDxH 160x140x205 mm
- Net weight approx. 6,2 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN ALJ-A01S05, **€ 40,-**
- **Protective dust cover**, KERN ABS-A08, **€ 30,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1, for details see page 182, KERN YDB-03, **€ 520,-**
- 3 **Ioniser** to neutralise electrostatic charge, see page 184, KERN YBI-01, **€ 1350,-**
- 4 **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 183, KERN YPS-03, **€ 900,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL INT 1 · CAL EXT 2 · RS 232 · GLP PRINTER · PCS · RECIPE · PERCENT · UNIT · TOL · MOVE · MULTI · FORCE · 1 DAY · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

FACTORY

M +3 DAYS nur ALJ-AM

Model KERN	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimum load [Min] mg	Linearity mg	Price excl. of VAT ex works €	Options Verification MI KERN	 €	DAkkS Calibr. Certificate DKD KERN	 €
ALS 160-4A	160	0,1	–	-	± 0,3	**930,-** ↓	–	–	963-101	138,-
ALS 250-4A	250	0,1	–	-	± 0,3	**980,-** ↓	–	–	963-101	138,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
ALJ 160-4A	160	0,1	-	-	± 0,3	**1030,-**	-	-	963-101	138,-
ALJ 160-4AM	160	0,1	1	10	± 0,3	**1050,-** ↓	965-201	110,-	963-101	138,-
ALJ 250-4A	250	0,1	-	-	± 0,3	**1060,-**	-	-	963-101	138,-
ALJ 250-4AM	250	0,1	1	10	± 0,3	**1090,-** ↓	965-201	110,-	963-101	138,-
ALJ 310-4A	310	0,1	–	-	± 0,3	**1290,-**	–	–	963-101	138,-
ALJ 500-4A NEW	510	0,1	-	-	± 0,4	**1950,-**	–	–	963-101	138,-

↓ Price reduction NEW New model

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6 Single-cell advanced technology:
- **Fully automatic manufactured weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time:** Steady weight values within approx. 3 sec under laboratory conditions
- **Shock proof construction**
- **High corner load performance**

The bestseller in analytical balances, with high-quality single-cell weighing system, also with EC type approval [M]

Features

- 1 only ABJ-NM: **Automatic internal adjustment** in the case of a temperature change > 2 °C and time-controlled every 4 hours
- 2 only ABS-N: **Adjusting program CAL**, external test weights at an additional price, see page 188 ff.
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Simple recipe weighing and documenting** with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- **Automatic data output** to the PC/printer each time the balance has obtained a stable weighing result
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- ABJ-NM has OIML certification

Technical data

- Large LCD display, digit height 14 mm
- Weighing plate dimensions, stainless steel, Ø 91 mm
- Overall dimensions WxDxH 210x340x325 mm
- Weighing space WxDxH 174x162x227 mm
- Permissible ambient temperature 10 °C / 30 °C
- Net weight approx. 6 kg

Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN ACS-A02S05, **€ 60,-**
- 3 **Data interface RS-232** interface cable included, KERN ACS-A01, **€ 75,-**
- 5 **Set for density determination** of liquids and solids with density ≤/≥ 1, for details see page 182, KERN YDB-03, **€ 520,-**
- 7 **Ioniser** to neutralise electrostatic charge, see page 184, KERN YBI-01, **€ 1350,-**
- 4 **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 184, KERN YPS-03, **€ 900,-**
- **Suitable printers** see page 177 ff.

STANDARD: CAL INT 1, CAL EXT 2, GLP PRINTER, PCS, RECIPE, PERCENT, TOL, UNIT, MULTI, SC TECH, 1 DAY, 3 YEARS WARRANTY

OPTION: RS 232 3, DAkkS +3 DAYS

FACTORY: M +3 DAYS only ABJ-NM

Model KERN	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimum load [Min] mg	Repro-ducibility mg	Linearity mg	Price excl. of VAT ex works €	Options: Verification MI KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
ABS 80-4N	82	0,1	–	–	0,2	± 0,3	**970,-**	–	–	963-101	138,-
ABS 120-4N	120	0,1	–	–	0,2	± 0,3	**1030,-**	–	–	963-101	138,-
ABS 220-4N	220	0,1	–	–	0,2	± 0,3	**1070,-** ↓	–	–	963-101	138,-
ABS 320-4N	320	0,1	–	–	0,2	± 0,3	**1240,-** ↓	–	–	963-101	138,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
ABJ 80-4NM	82	0,1	1	10	0,2	± 0,3	**1050,-**	965-201	110,-	963-101	138,-
ABJ 120-4NM	120	0,1	1	10	0,2	± 0,3	**1080,-** ↓	965-201	110,-	963-101	138,-
ABJ 220-4NM	220	0,1	1	10	0,2	± 0,3	**1170,-** ↓	965-201	110,-	963-101	138,-
ABJ 320-4NM	320	0,1	1	10	0,2	± 0,3	**1340,-** ↓	965-201	110,-	963-101	138,-

↓ Price reduction

Compact high-end analytical balance with useful pipette calibration program and alibi memory

Features

- 1 only AEJ-CM: **Automatic internal adjustment** in the case of a change in temperature > 0,8 °C and time-controlled every 3 hours
- 2 **Intuitive pipette calibration function** to ensure data integrity and to minimise the risks in the daily work with your pipettes
- Higher weighing speed by switching off the last digit
- **Modern all glass draught wind shield** for ideal visibility of the weighing object
- **Dispensing mode:** By pressing one key you can set all relevant parameters for dispensing
- **Alibi memory:** Paperless archiving of up to 100,000 weighing results. Additional information on page 11.
- **Note:** For weighings where verification is mandatory, and which are to be analysed and processed by a PC, the legislative body requires electronic archiving using a verifiable, non-manipulatable data memory
- **Internal memory** for up to 999 weighing results, 1000 items or recipe ingredients, 100 container weights, 100 users

Technical data

- Large backlit LCD display, digit height 17 mm
- Weighing plate dimensions, stainless steel, Ø 85 mm
- Overall dimensions WxDxH 206x335x335 mm
- Weighing space WxDxH 168x160x225 mm
- Net weight approx. 5 kg
- Permissible ambient temperature 18 °C / 30 °C

Accessories

- **Protective working cover**, standard. Can be re-ordered, scope of delivery: 5 items, KERN ALS-A02S05, **€ 35,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1, Step-by-step user guidance and calculated density shown immediately on the display. For interesting facts about density determination see page 214, KERN YDB-03, **€ 520,-**
- only AEJ-CM: **Alibi memory software** for viewing and saving data from the alibi memory onto a PC connected to the system, KERN PET-A16, **€ 300,-**
- **WLAN interface** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN PLJ-A06, **€ 135,-**
- **Suitable printers** see page 177 ff.

STANDARD

CAL INT (1) · CAL EXT · MEMORY · ALIBI (only AEJ-CM) · RS 232 · USB · GLP INTERN · PCS · RECIPE · PERCENT · UNIT · TOL · UNDER · MULTI · FORCE · 1 DAY · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: WLAN · M +3 DAYS (only AEJ-CM)

Model KERN	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimum load [Min] mg	Repro-ducibility mg	Linearity mg	Price excl. of VAT ex works €	Options Verification MI KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
AES 100-4C	160	0,1	–	–	0,2	± 0,2	**1070,-**	–	–	963-101	138,-
AES 200-4C	220	0,1	–	–	0,2	± 0,2	**1120,-**	–	–	963-101	138,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
AEJ 200-5CM	82 | 220	0,01 | 0,1	1 | 1	1	0,04 | 0,1	± 0,1 | 0,2	**2050,-**	965-201	110,-	963-101	138,-
AEJ 100-4CM	160	0,1	1	10	0,2	± 0,3	**1150,-**	965-201	110,-	963-101	138,-
AEJ 200-4CM	220	0,1	1	10	0,2	± 0,3	**1200,-**	965-201	110,-	963-101	138,-

Analytical balance KERN ABT

PREMIUM ★★★

1

2

3

Single-cell advanced technology:
- **Fully automatic manufacture weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time**
- **Shock proof construction**
- **High corner load performance**

The premium model with single-cell weighing system

Features

- **Automatic internal adjustment** in the case of a change in temperature > 0,5 °C and time-controlled every 4 hours
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Simple recipe weighing and documenting** with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- **Automatic data output to the PC/printer** each time the balance is steady
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed

Technical data

- Large LCD display, digit height 14 mm
- Weighing plate dimensions Ø 80 mm
- Overall dimensions WxDxH 217x356x338 mm
- Weighing space WxDxH 168x172x223 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover**, standard. Can be re-ordered, scope of delivery: 5 items, KERN ABT-A02S05, **€ 50,-**
- 1 **Set for density determination** of liquids and solids with density ≤/≥ 1. The density is indicated directly on the display, for details see page 182, KERN YDB-03, **€ 520,-**
- 2 **Ioniser** to neutralise electrostatic charge, see page 184, KERN YBI-01, **€ 1350,-**
- 3 **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 184, KERN YPS-03, **€ 900,-**
- **Suitable printers** see page 177 ff.

STANDARD

CAL INT · RS 232 · GLP INTERN · PCS · RECIPE · PERCENT · UNIT · UNDER · MULTI · SC TECH · 1 DAY · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

FACTORY

M +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimum load [Min] mg	Repro-ducibility mg	Linearity mg	Price excl. of VAT ex works €	Options Verification MI KERN	 €	DAkkS Calibr. Certificate DKD KERN	 €
ABT 120-4M	120	0,1	1	10	0,1	± 0,2	**1490,-**	965-201	110,-	963-101	138,-
ABT 220-4M	220	0,1	1	10	0,1	± 0,2	**1770,-**	965-201	110,-	963-101	138,-
ABT 320-4M	320	0,1	1	10	0,1	± 0,3	**1980,-**	965-201	110,-	963-101	138,-
ABT 100-5M	101	0,01	1	1	0,05	± 0,15	**1980,-**	965-201	110,-	963-101	138,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].											
ABT 120-5DM	42 | 120	0,01 | 0,1	1 | 1	1	0,02 | 0,1	± 0,05 | 0,2	**2170,-**	965-201	110,-	963-101	138,-
ABT 220-5DM	82 | 220	0,01 | 0,1	1 | 1	1	0,05 | 0,1	± 0,1 | 0,2	**2370,-**	965-201	110,-	963-101	138,-

KERN AET [d] = 0,01 mg

PREMIUM
★★★

KERN AET [d] = 0,1 mg

Note for information on further useful functions for this range, please see pages 6 and 7

Premium touchscreen analytical balance with the complete range of functions for demanding processes

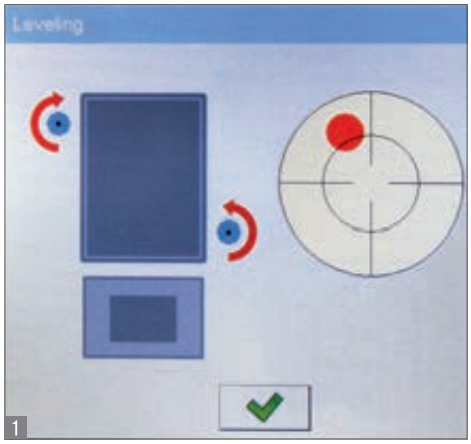
Software supported pipette calibration in accordance with ISO 8655: The user is guided through the pipette calibration procedure step by step, in accordance with the requirements of the norm. This helps to ensure that the pipetting volumes are correct and minimises the risks in daily pipetting work

Convenient recipe-weighing: complete recipes with all recipe ingredients and associated target values, names, tolerances, tare weights etc. can be stored. If there is an excess amount of one recipe ingredient the practical back calculation function automatically calculates the new target weights of the other ingredients

Modes
① Weighing
② Piece counting
③ Checkweighing
④ Dispensing
⑤ Percentage determination
⑥ Density determination
⑦ Animal weighing
⑧ Recipe weighing
⑨ Statistical function
⑩ Pipette calibration
⑪ Differential weighing
⑫ Statistical Quality Control (SQC)

Functions
- Capacity display, with ① - ⑫
- Dispensing aid, with ④, ⑤
- Net/gross display, permanent, with ① - ⑫
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ① - ⑫
- Input of item or batch description, operator etc., with ① - ⑫
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m², or similar, with ① - ⑫
- Date/time, with ① - ⑫
- Statistical function, as stand-alone application
- GLP printout, with ① - ⑫
- Individual printout configuration, with ① - ⑫

Analytical balance KERN AET



1

2

3

03

Features

- **Intuitive operation, increases efficiency and saves costs:** Easy entering of item data at the PC, call up of items on the balance using the connected barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory.
- **Individual user settings can be stored**
  - User name and number
  - Password
  - Menu language
  - User profile
  - Additional guest mode for users without log-in
  - Authorisations, e.g. capture or modification of a recipe only by those with authorisation, recipe weighing can be carried out by the user
- **Best-before dates** can be stored and printed for each item
- **Difference determination:** Weighing a sample before and after a machining process and automatic output of the difference value
- **Multiplier function:** recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc.
- **Enormous database (1 GB)** for thousands of weighing results, items, recipes, recipe ingredients, container weights, user data etc.
- **Alibi memory:** paperless archive of weighing results, see page 214
- 1 **Electronic level indicator** continuously checks the position of the balance, sounds an alarm when the device is out of balance and gives visual instructions on how to correct the situation
- 2 **High level of process reliability:** you can define limit values for selected parameters, such as, for example, temperature, levelling, minimum load, adjustment, etc. When the value falls outside these limits, a warning message will be issued and this can be stored with the measuring result
- 3 only AET 200-5DM: **Grid weighing pan, metal draught shield and hook for suspended weighing** as standard
- 4 only AET-NM/DAM:
  - WLAN data interface to transfer data from the balance to a printer, PC or other peripheral devices
  - Enormous database (8 GB)
  - Faster Dual-Core Processor (2 x 1 GB)

Technical data

- Backlit and touch-sensitive LCD display with digit height 21mm, screen diagonal 5,7" (approx. 145 mm), WxH 115x86 mm. Dimensions of display device WxDxH 215x156x71 mm
- Weighing plate dimensions, stainless steel, Ø 85 mm
- Dimensions housing WxDxH on all models with [d] = 0,01 mg: 348x540x217 mm
  [d] = 0,1 mg: 160x168x225 mm
- Weighing space WxDxH 168x160x225 mm
- Permissible ambient temperature 18 °C / 30 °C

Accessories

- **Protective working cover** over the display device, standard. Can be re-ordered, suitable for the series AET, PET, ILT, scope of delivery: 5 items, KERN ILT-A02S05, **€ 19,-**
- **Protective dust cover**, for models AET 500-4 and AET 200-4NM, KERN ABS-A08, **€ 30,-**
- **RS-232 barcode scanner**, hand-held version, dimensions WxDxH 152x84x63 mm, for details see page 184, KERN PET-A05, **€ 350,-**
- **USB barcode scanner**, hand-held version, dimensions WxDxH 152x84x63 mm, for details see page 184, KERN PET-A09, **€ 350,-**
- **USB keyboard** for easy capture of items, descriptions etc., dimensions WxDxH 440x128x24 mm, for details see page 187, KERN PET-A06, **€ 45,-**
- **Second display**, dimensions WxDxH 150x33x80 mm, for details see page 184, KERN PET-A03, **€ 210,-**
- **Direct thermal label printer**, software for easy editing of (adhesive) labels included, for details see page 184, KERN PET-A13, **€ 980,-**
- **Thermal transfer and direct thermal label printer**, software for easy editing of (adhesive) labels included, for details see page 184, KERN PET-A14, **€ 1000,-**
- **Software for database management**, for convenient maintenance of item data at the PC. Data transfer to the balance using the interface cable (see page 180), for details see page 184, KERN PET-A01, **€ 300,-**
- **Set for density determination** of liquids and solids ≤/≥ 1. The internal density determination software in the balance takes you through the process, step by step, and shows the density on the display. For details see page 183, KERN YDB-03, **€ 520,-**

STANDARD

CAL INT · MEMORY · ALIBI · RS 232 · USB · WLAN 4 · SWITCH · LAN · GLP INTERN · PCS · RECIPE · PERCENT · UNIT · TOL · MOVE · UNDER · MULTI · FORCE · 1 DAY · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimum load [Min] mg	Repro-ducibility mg	Linearitäy mg	Price excl. of VAT ex works €	Options Verification MI KERN	 €	 DAkkS Calibr. Certificate DKD KERN	 €
AET 500-4	510	0,1	–	–	0,2	± 0,5	**6100,-**	–	–	963-101	138,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].											
AET 200-5DAM	82 | 220	0,01 | 0,1	–	–	0,04 | 0,1	± 0,1 | 0,2	**7400,-**	-	-	963-101	138,-
AET 100-5AM	100	0,01	–	–	0,05	± 0,1	**6500,-**	-	-	963-101	138,-
AET 200-4NM	220	0,1	1	10	0,2	± 0,3	**2800,-**	965-201	110,-	963-101	138,-

Often it is the small things which make daily laboratory life easier.
On this page we have put together a small selection of practical accessories for your demanding weighing processes.

For additional details and further accessories, please see page 176

Weighing table

Accurate measuring results require stable working conditions! The KERN YPS-03 weighing table has been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result. Suitable for all KERN analytical balances with total dimensions ≤ WxD 270x410 mm.

KERN YPS-03, **€ 900,-**

Ioniser to neutralise electrostatic charge

Goods to be weighed which are non-conductive, such as plastic, china, glass, etc often carry electrostatic charge. The electromagnetic field which then occurs between the goods to be weighed and the balance can cause the weighing result to be distorted by up to a gramme. Suitable for all KERN analytical balances.

KERN YBI-01, **€ 1350,-**

Protective dust cover

For protection from dust and light.
Suitable for all KERN analytical balances, except KERN ADB, AET 100-5AM, AET 200-5DAM.

KERN ABS-A08, **€ 30,-**

Universal density set

Universal density set for precise and convenient density determination of liquids and solids ≤/≥ 1. Suitable for all KERN analytical balances.

KERN YDB-03, **€ 520,-**

Thermal statistics printer

For printing weights, recipes etc. or for GLP record keeping of weighing data with date and time print. With extensive statistical functions for the analysis of measurements series. Suitable for all KERN analytical balances (except AET).

KERN YKS-01, **€ 390,-**

Moisture analysing is an integral part of production and processing of many raw and finished products and has a crucial impact on the quality of the product.

Moisture analysers are used particularly in the food industry, water resource management (sewage plants, etc.), plastics industry, agriculture and the energy industry (bio-energy plants, etc.).

Determining moisture requires a great deal of experience. Depending on the type of sample and the task involved, various drying processes are used.

KERN has concentrated on the most widely-used drying method: halogen drying, which brings many advantages:

- Sample is evenly warmed from above, without risk of burning the sample surface
- Affordable purchase costs ensure rapid amortisation of the device
- Most common temperature ranges from 35 – 200 °C
- High measuring precision, up to 0.01 %
- Sufficient buffer capacity, weighing range up to 160 g
- Various drying programs (soft drying, standard drying, drying in levels, rapid drying (Boost))

The numerous memories of the KERN moisture analyser are particularly useful, as they hold information on the complete drying processes with drying parameters such as drying time, drying period, drying temperature, display settings, switch off criteria, etc. This saves an enormous amount of time and helps to achieve repeatable results.

On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser.

Note: We would be pleased to carry out individual analyses on the sample you submit, which will help you when setting the parameters of your moisture analyser and will lead to results which can be reproduced.
KERN 965-243, **€ 95,-/hour**

Quick-Finder Moisture analysers

Read-out [d]	Weighing range [Max]	**Model** KERN	**Price** excl. of VAT ex works €	Page	DAYS ready for shipping	CAL EXT	MEMORY	RS 232
						For an explanation on the pictos, see the front flap		
0,001 g	50 g	**MLS 50-3D**	**1450,-**	57	1	●	○	○
0,001 g	60 g	**DBS 60-3**	**1270,-**	55	1	●	○	○
0,001 g	110 g	**DAB 100-3**	**1130,-**	54	1	●	○	○
0,001 g	160 g	**DLB 160-3A**	**1170,-**	56	1	●	○	○
0,001 g	160 g	**DLT 100-3N**	**1870,-**	58	1	●	○	○

□ = News 2016 ● = Standard ○ = Option

Your product specialist's recommendation:

Optimum ease of operation

High level of process reliability thanks to drying programs which can be stored

Graphics display aids when setting and monitoring the drying process

Jesús Martínez
Product specialist Moisture analysers

Tel. +49 [0] 7433 9933-209
Fax +49 [0] 7433 9933-29209
jesus.martinez@kern-sohn.com

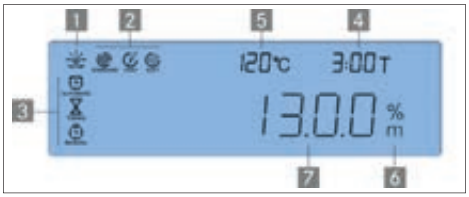
HIGH-LIGHT

only € 1130,-

▸ page 54

KERN DAB

NEW



Moisture analyser with user-friendly graphics display and 15 memories for drying programs

STANDARD

CAL EXT · MEMORY · RS 232 · GLP PRINTER · UNIT · 230 V · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

KERN	DAB 100-3
Readout [d]	0,001 g | 0,01 %
Weighing range [Max]	110 g
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Moisture content (M) from wet weight (W)	0-100 %
Dry content [%] = Dry weight (D) from W	100-0 %
Moisture content (M)	Absolute value in [g]
Temperature range	35 °C - 160 °C in steps up to 1 °C
Drying modes	Standard drying Gentle drying Rapid drying
Switch off criteria	• Automatic switch off (2 mg loss in weight in 45 s) • Time controlled switch off (3 min – 99 h 59 min, 10 s increments) • Manual switch off at the press of a button
Recall of measurement	• At the end of the drying process, manual or automatic (Only in connection with KERN YKC-01)
Overall dimensions WxDxH	240x365x180 mm
Net weight	4,82 kg
Price €, excl. of VAT, ex works	**1130,-**
Option DAkkS Calibr. Certificate	963-127, **€ 72,-**

Features

- Backlit LCD display, digit height 14 mm
  - 1 Drying process active
  - 2 Active heating profile
  - 3 Active switch-off criteria
  - 4 Previous drying time
  - 5 Current temperature
  - 6 Moisture display in %
  - 7 Interim result in moisture-%
- **Halogen quartz glass heater** 400 W
- **Observation window above the sample**, useful during initial setting
- **Internal memory** for automatic sequence of 15 complete drying processesand 5 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement
- **50 sample plates included**
- **Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Accessories

- **Sample plates aluminium**, Ø 90 mm. Unit of 80 pieces, KERN MLB-A01A, **€ 45,-**
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Box with 100 pieces, KERN RH-A02, **€ 80,-**
- 8 **Temperature calibration set** consists of measuring sensor and display device, KERN DAB-A01, **€ 190,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 390,-**
- **RS-232/Bluetooth adapter** to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02, **€ 260,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 780,-**
- **Thermal printer**, KERN YKB-01N, **€ 325,-**

Moisture analyser KERN DBS

04

Moisture analyser with graphics display and 10 memories for drying programs

STANDARD

CAL EXT · MEMORY · RS 232 · GLP PRINTER · UNIT · 230 V · FORCE · 1 DAY · 3 YEARS WARRANTY

OPTION

USB · DAkkS +3 DAYS

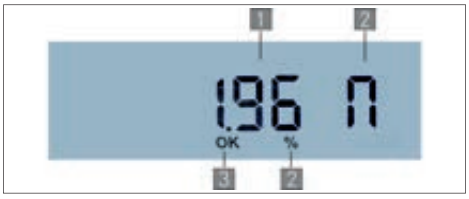
KERN	DBS 60-3
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	60 g
Reproducibility weight of sample 2 g	0,15 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %
Dry content [%] = Dry weight (D) from (W)	100 - 0 %
ATRO [%] [(W-D) : D] · 100%	0 - 999 %
Moisture content [g] (M)	Absolute value in [g]
Temperature range	50 - 200 °C in steps up to 1 °C
Drying modes	Standard drying Drying in levels Gentle drying Rapid drying
Switch off criteria	• Automatic unrestricted switch off (Selectable loss in weight 0,01%-0,1% in 30 s) • Time controlled switch off (1 min – 12 h) • Manual switch off at the press of a button
Recall of measurement	Interval can be set from 1 sec – 10 min (Only when used with printer KERN YKB-01 or PC)
Overall dimensions WxDxH	202x336x157 mm
Net weight	approx. 4,2 kg
Price €, excl. of VAT, ex works	1270,-
Option DAkkS Calibr. Certificate	963-127, € 72,-

Features

- Backlit LCD display, digit height 15 mm
  - 1 Drying program
  - 2 Previous drying time
  - 3 Current temperature
  - 4 Unit of the shown result, e.g. moisture
  - 5 Current moisture content in %
  - 6 Drying mode/Status display drying
- **Halogen quartz glass heater** 400 W
- **Observation window above the sample**, useful during initial setting
- **Internal memory** for automatic run of 10 drying programs and 100 drying processes already executed
- The last value measured remains on the display until it is replaced by a new measurement
- **Sample description** for up to 99 samples, 2 digits, freely programmable, and is printed in the measuring protocol
- **Date and time display** as standard
- **10 sample plates included**
- **Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Accessories

- **Sample plates aluminium**, Ø 90 mm. Unit of 80 pieces, KERN MLB-A01A, **€ 45,-**
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Box with 100 pieces, KERN RH-A02, **€ 80,-**
- 7 **Temperature calibration set** consists of measuring sensor and display device, KERN DBS-A01, **€ 480,-**
- **USB interface kit** for bi-directional data exchange between moisture analyser and computer. Scope of delivery: USB cable, driver, Software Balance Connection, KERN DBS-A02, **€ 290,-**
- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN DBS-A03S05, **€ 65,-**
- **Thermal printer**, KERN YKB-01N, **€ 325,-**



The moisture analyser for heavy, high-volume samples

STANDARD

CAL EXT · MEMORY · RS 232 · GLP PRINTER · UNIT · 230 V · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

KERN	DLB 160-3A
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	160 g
Reproducibility, weight of sample 10 g	0,05 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %
Dry content [%] = Dry weight (D) from (W)	100 - 0 %
ATRO [%] [(W-D) : D] · 100%	0 - 999 %
Moisture content (M)	Absolute value in [g]
Temperature range	35 °C - 160 °C in steps up to 1 °C
Drying modes	Standard drying Rapid drying, Pre-heat level, can be switched on
Switch off criteria	• Automatic unrestricted switch off (Selectable loss in weight 0,1%-9,9% in 60 s) • Time controlled switch off (1 min – 99 min) • Manual switch off at the press of a button
Recall of measurement	• Continuous output (residual weight) • At the end of the drying process, manual or automatic (Only in connection with KERN YKB-01N printer or PC)
Overall dimensions WxDxH	210x340x225 mm
Netweight	approx. 4,2 kg
Price €, excl. of VAT, ex works	**1200,-**
Option DAkkS Calibr. Certificate	963-127, **€ 72,-**

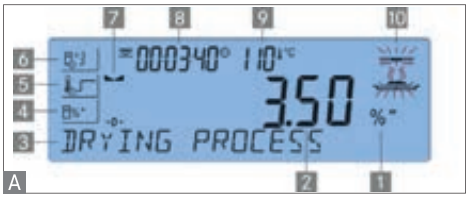
Features

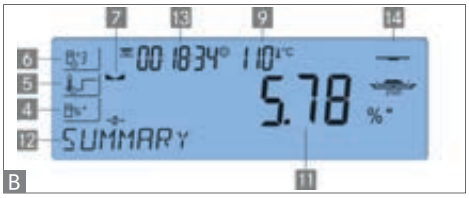
- Backlit LCD display, digit height 17 mm
  1 Current moisture content in %
  2 Unit of the shown result, e.g. % moisture
  3 Drying process active
- **Halogen quartz glass heater** 400 W
- **Internal memory** for automatic sequence of 5 complete drying processes
- The last value measured remains on the display until it is replaced by a new measurement
- **10 sample plates included**
- **Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Accessories

- **Sample plates aluminium**, Ø 90 mm. Box with 80 pieces, KERN MLB-A01A, **€ 45,-**
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Box with 100 pieces, KERN RH-A02, **€ 80,-**
- 5 **Temperature calibration set** consists of measuring sensor and display device, KERN DLB-A01, **€ 290,-**
- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN ALJ-A01S05, **€ 40,-**
- **Suitable printers** see page 177 ff.

Moisture analyser KERN MLS-D





04

Infrared moisture analyzer with graphics display and a vast database

STANDARD

CAL EXT · MEMORY · RS 232 · GLP INTERN · UNIT · 230 V · NTS FORCE · 1 DAY · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

KERN	MLS 50-3D
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	50 g
Reproducibility, weight of sample 2 g	0,1 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %
Dry content [%] = Dry weight (D) from (W)	100 - 0 %
ATRO [%] [(W-D):D] · 100%	0 - 999 %
Moisture content (M)	Absolute value in [g]
Temperature range	40 °C - 160 °C in steps up to 1°C
Drying modes	Standard drying Drying in levels Gentle drying Rapid drying
Switch off criteria	• Automatic switch off (AUTO 1 – 5) • Automatic unrestricted switch off (selectable 1–10 mg / 10-120 s • Time controlled switch off (1 min – 99 h 59 min) • Manual switch off at the press of a button
Recall of measurement	Interval can be set from 1 sec – 10 min (Only when used with printer KERN YKB-01N or PC)
Overall dimensions WxDxH	206x333x192 mm
Net weight	approx. 4,9 kg
Price €, excl. of VAT, ex works	1450,-
Option DAkkS Calibr. Certificate	963-127, € 72,-

Features

- Backlit graphic display, digit height 14mm
  - A ***Display during the drying process*:**
  - 1 Moisture display in %
  - 2 Interim result in moisture-%
  - 3 Drying process active
  - 4 Active result display
  - 5 Active heating profile
  - 6 Active switch-off criteria
  - 7 Stability display
  - 8 Previous drying time
  - 9 Current temperature
  - 10 Drying process active
  - B ***Display after the drying process:***
  - 11 End result in moisture-%
  - 13 Active result display
  - 14 Drying process has finished
- **Infrared heater** 400 W
- **Observation window above the sample**, useful during initial setting
- **Balance contains memory** for automatic sequence of 100 complete drying programs (92 drying programs with optimised drying characteristics for rapid sample warming and therefore shorter drying times, pre-installed at the factory), 100 users with related authorisations, 1000 drying processes performed and 1000 weighing results (alibi memory)
- The last value measured remains on the display until it is replaced by a new measurement
- The large ventilation slots in the heating cover combined with the sample viewing window in the form of a a metal grid, ensure that moisture exhausts quickly which leads to shorter drying times
- **10 sample plates included**
- **Application handbook:** There are many practical examples in the user manual

Accessories

- **Sample plates aluminium**, Ø 90 mm. Unit of 80 pieces, KERN MLB-A01A, **€ 45,-**
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Box with 100 pieces, KERN RH-A02, **€ 80,-**
- **Temperature calibration set** consists of measuring sensor and display device, KERN MLB-A12, **€ 590,-**
- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN ALS-A02S05, **€35,-**
- **Thermal printer**, KERN YKB-01N, **€ 325,-**

PREMIUM
★★★

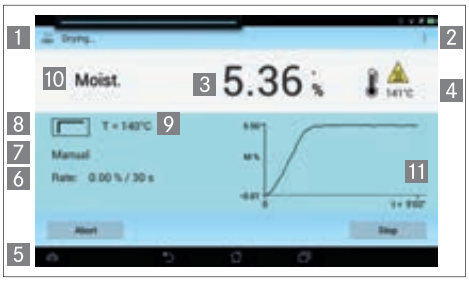
High-end moisture analyser with touch-sensitive tablet and innovative Android® operating system

Particularly in the pharmaceutical, food, chemical and construction industries, being able to analyse the moisture content of materials at Goods Inwards and production is an important tool to ensure product quality and robust production processes.

In biogas plants, sewage treatment plants or landfill sites, the drying of biomass has always been extremely important. Controlling the moisture content precisely helps, for example, to reduce transport weights or increase heating values

In the timber industry, statements which can be validated relating to the moisture content and the resulting mechanical and technological characteristics of the wood or the fuel and heating values of wood chips, pellets, etc. are of economic importance

Moisture analyser KERN DLT-N



Features

- **Innovative touchscreen:** Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading
- **Clear menu structure** with plain text labels on the display. The menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient functionality
- **Tablet:** Colour LCD Display, digit height 12 mm, screen diagonal 7" (approx. 178 mm), WxH 118x88 mm, table stand standard, all information at a glance:
  1 Drying process active
  2 Status information, available for display
  3 Current moisture content in %
  4 Current temperature
  5 Android®-specific navigation elements
  6 Drying rate
  7 Switch off mode
  8 Drying type *Standard*
  9 Target temperature
  10 Current display and print-out of moisture-%

11 Graphic display of the drying curve shows the progress of the drying process in real time and can be used by the operator to check and evaluate the result

- **High mobility thanks to tablet operation**, data is available any time, anywhere
- **High-performance Android® operating system**
- **Lots of memory** for your applications
- **Halogen quartz glass heater** 400 W
- **10 sample plates included**
- **WLAN and Bluetooth interfaces as standard** to transfer data to a PC (e.g. to KERN Balance-Connection 4.0 software, see page 179) or to print out the weighing data, drying curves etc. for archiving purposes using a Bluetooth thermal printer KERN YKC-01, see page 178

12 Practical net weighing assistance to a defined target value [g] with adjustable tolerance range 1 – 25 % of the target value

13 Balance contains memories for 100 memories for drying processes (drying protocols) which have been carried out and which can be re-called individually

Balance contains memories for automatic sequence of 300 drying programs (12 free characters for each memory). Many useful programs are already preinstalled

STANDARD

OPTION

KERN	DLT 100-3N
Readout [d]	0,001 g | 0,01 %
Weighing range [Max]	160 g
Reproducibility, weight of sample 10 g	0,001 g
Display after drying (Display switchable at all times)	
Moisture [%] = Moisture content (M) from wet weight	0–100 %
Dry content [%] = Dry weight (D) from (W)	100–0 %
ATRO [%] [(W-D):D] · 100%	0–999 %
Residual weight (M)	Absolute value in [g]
Temperature range	35 °C–160 °C in steps of 1 °C
Drying modes	Standard drying Gradual drying Gentle drying Rapid drying
Switch off criteria	• Automatic unrestricted switch off (selectable loss in weight 0,1–10 % or 1–60 mg, selectable time 1–99 s) • Time controlled switch off (1 min–99 min) • Manual switch off at the press of a button
Log output	• At the end of the drying process, manual or automatic (only in connection with printer KERN YKC-01)
Dimensions Moisture analyser WxDxH	210x340x225 mm
Dimensions Tablet WxDxH	195x120x10 mm
Net weight	5,2 kg
Price €, excl. of VAT ex works	**1870,-**
Option DAkkS Calibration Certificate	963-127, **€ 72,-**

Price reduction

Accessories

- **Sample plates aluminium**, Ø 90 mm. Unit of 80 pieces, KERN MLB-A01A, **€ 45,-**
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Unit of 100 pieces, KERN RH-A02, **€ 80,-**
- **Temperature calibration set,** KERN DLB-A01N, **€ 460,-**
- **Protective working cover** standard, can be reordered, scope of delivery: 5 items, KERN ALJ-A01S05, **€ 40,-**
- 14 **Bluetooth thermal printer,** suitable for wireless connection to compatible, Bluetooth-enabled moisture analysers, balances, dynamometers etc., KERN YKC-01, **€ 690,-**

05 Bench scales

Compact industrial weighing technology

Thanks to their compact dimensions, low weight, robust internal mechanism and the fact that they can be operated independent of mains power, bench scales can be used not only in a stationary situation, but also as mobile scales.

With weighing ranges between 3 kg and 65 kg, bench scales can cover a wide range of applications. Whether as a commissioning scale in the warehouse, for inventory purposes, on a production work station, in quality control, in small workshops, in service cars or in sales offices, bench scales are the first choice.

Durable stainless steel weighing plates, easy to read backlit displays, useful functions such as piece counting, PRE-TARE – subtraction of a known container weight, or ➔ ***interfaces*** to PC and printer, all these support the user in their daily work

➔ ***Dual range*** scales cover a particularly wide range of applications. With these scales, the total weighing range is divided into 2 subranges and begins with a high resolution read-out in the fine weighing range. If this range is exceeded the balance automatically switches to the higher weighing range with the lower resolution read-out.

All KERN bench scales have an adjustment program (CAL) to adjust the accuracy. In this way, the high level of accuracy is guaranteed at all times, even during harsh everyday use. Find the right test weights for you, see page 188.

Touchscreen balances
The newest development for an even greater level of user-friendliness is the intuitive touchscreen operation, which is being integrated into new KERN models, see page 34/35 (PKT), 41–43 (PET), 50/51 (AET), 70/71 (FKT), 170/171 (FKTF), 96 (FKA), 97 (FKC), 118/119 (IKT), 120/121 (ILT)

➔ *See the glossary on page 214 – 216*

Your product specialist‘s recommendation:

HIGH-LIGHT

- **With type approval – which makes it suitable for a wide variety of uses, e.g. retail, catering trade, supermarkets, cafeterias, etc.**
- **Designed for mobile use**
- **Rapid and steady weighing results**

Edeltraud Semma-Hauser
Product specialist Bench scales

Tel. +49 [0] 7433 9933 - 140
Fax +49 [0] 7433 9933 - 29140
semma-hauser@kern-sohn.com

KERN GAB-N

from € **230,–**

▸ page 67

Quick-Finder Bench scales

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL EXT	MEMORY	RS 232	PCS	TOL	MOVE	BATT	ACCU
						For an explanation on the pictos, see the front flap								
0,05 g	6 kg	**GAB 6K0.05N**	**300,-**	67	1		●		●	●	●			○
0,02 g	6 kg	**FKB 6K0.02**	**510,-**	69	1		●		●	●		●	○	○
0,05 g	6 kg	**GAB 6K-5P**	**600,-**	68	1		●		●	●	●			●
0,02 g	6 kg	**FKT 6K0.02L**	**890,-**	70	1		●	●	●	●	●	●	○	○
0,05 g	8 kg	**FKB 8K0.05**	**460,-**	69	1		●		●	●		●	○	○
0,05 g	16 kg	**FKB 16K0.05**	**560,-**	69	1		●		●	●		●	○	○
0,05 g	16 kg	**FKT 16K0.05L**	**890,-**	70	1		●	●	●	●	●	●	○	○
0,1 g	3 kg	**FCB 3K0.1**	**220,-**	65	1		●		●	●		●	○	○
0,1 g	6 kg	**FKT 6K0.1**	**790,-**	70	1		●	●	●	●	●	●		○
0,1 g	8 kg	**FCB 8K0.1**	**240,-**	65	1		●		●	●		●	○	○
0,1 g	8 kg	**FKB 8K0.1A**	**300,-**	66	1		●		●	●		●	○	○
0,1 g	8 kg	**FKB 8K0.1M**	**540,-**	69	1	○	●		●	●			○	
0,1 g	12 kg	**GAB 12K0.1N**	**300,-**	67	1		●		●	●	●			○
0,1 g	12 kg	**GAB 10K-4P**	**590,-**	68	1		●		●	●	●			●
0,1 g	16 kg	**FKB 16K0.1**	**460,-**	69	1		●		●	●		●	○	○
0,1 g	36 kg	**FKB 36K0.1**	**520,-**	69	1		●		●	●		●	○	○
0,1 g	36 kg	**FKT 36K0.1L**	**890,-**	70	1		●	●	●	●	●	●	○	○
0,2 g	12 kg	**FKT 12K0.2**	**790,-**	70	1		●	●	●	●	●	●		○
0,2 g	30 kg	**GAB 30K0.2N**	**300,-**	67	1		●		●	●	●			○
0,2 g	30 kg	**GAB 30K-4P**	**590,-**	68	1		●		●	●	●			●
0,2 g	36 kg	**FKB 36K0.2**	**480,-**	69	1		●		●	●		●	○	○
0,2 g	65 kg	**FKB 65K0.2**	**520,-**	69	1		●		●	●		●	○	○
0,2 g	65 kg	**FKT 65K0.2L**	**890,-**	70	1		●	●	●	●	●	●	○	○
0,5 g	6 kg	**FCB 6K0.5**	**195,-**	65	1		●		●	●		●	○	○
0,5 g	15 kg	**FKB 15K0.5A**	**290,-**	66	1		●		●	●		●	○	○
0,5 g	30 kg	**FKT 30K0.5L**	**790,-**	70	1		●	●	●	●	●	●	○	○
0,5 g	65 kg	**FKB 65K0.5**	**480,-**	69	1		●		●	●		●	○	○
1 g	3 kg	**FCE 3K1N**	**110,-**	64	1		●						○	○
1 g	6 kg	**FKT 6K1LM**	**890,-**	70	1	○	●	●	●	●	●	●	○	
1 g	12 kg	**FCB 12K1**	**185,-**	65	1		●		●	●		●	○	○
1 g	15 kg	**FKB 15K1A**	**260,-**	66	1		●		●	●		●	○	○
1 g	30 kg	**FCB 30K1**	**220,-**	65	1		●		●	●		●	○	○
1 g	30 kg	**FKB 30K1A**	**290,-**	66	1		●		●	●		●	○	○
1 g	60 kg	**FKT 60K1L**	**790,-**	70	1		●	●	●	●	●	●	○	○
1 g	65 kg	**FKB 65K1A**	**300,-**	66	1		●		●	●		●	○	○
1 g	65 kg	**FKB 65K1M**	**550,-**	69	1	○	●		●	●			○	
1 | 2 g	3 | 6 kg	**GAB 6K1DNM**	**230,-**	67	1	○	●		●	●	●			○
1 | 2 g	3 | 6 kg	**GAB 6K-3PM**	**510,-**	68	1	○	●		●	●	●			●
2 g	6 kg	**FCE 6K2N**	**110,-**	64	1		●						○	○
2 g	12 kg	**FKT 12K2LM**	**890,-**	70	1	○	●	●	●	●	●	●	●	
2 g	24 kg	**FCB 24K2**	**185,-**	65	1		●		●	●		●	○	○
2 | 5 g	6 | 15 kg	**GAB 15K2DNM**	**230,-**	67	1	○	●		●	●	●			○
2 | 5 g	6 | 15 kg	**GAB 10K-3PM**	**510,-**	68	1	○	●		●	●	●			●
5 g	10 kg	**ECE 10K-3N**	**99,-**	62	1		●						○	○
5 g	10 kg	**ECB 10K-3N**	**120,-**	62	1		●						○	○
5 g	15 kg	**FCE 15K5N**	**110,-**	64	1		●						○	○
5 g	30 kg	**FKT 30K5LM**	**890,-**	70	1	○	●	●	●	●	●	●	●	
5 | 10 g	15 | 30 kg	**GAB 30K5DNM**	**230,-**	67	1	○	●		●	●	●			○
5 | 10 g	15 | 30 kg	**GAB 30K-3PM**	**510,-**	68	1	○	●		●	●	●			●
10 g	20 kg	**ECE 20K-2N**	**99,-**	62	1		●						○	○
10 g	20 kg	**ECB 20K-2N**	**120,-**	62	1		●						○	○
10 g	30 kg	**FCE 30K10N**	**110,-**	64	1		●						○	○
10 g	60 kg	**FKT 60K10LM**	**890,-**	70	1	○	●	●	●	●	●	●	●	
20 g	50 kg	**ECE 50K-2N**	**99,-**	62	1		●						○	○
20 g	50 kg	**ECB 50K-2N**	**120,-**	62	1		●						○	○

= News 2016

● = Standard ○ = Option

NEW

1

2

Plain, mobile, uncomplicated

Features

- 2 **High mobility:** Battery operation, compact, flat construction, recessed grips on the underside and low weight make this balance ideal for use in several locations
- **Particularly large weighing plate**
- **Very fast display:** steady weight values within 2 sec
- **Simple and convenient 2-key operation**

Technical data

- Large backlit LCD display, digit height 21 mm
- Weighing plate dimensions (1 ECE: plastic, ECB: stainless steel) WxD 318x258 mm
- Overall dimensions WxDxH 320x300x60 mm
- Optional battery operation, 6 x 1.5 V AA not included, operating time up to 100 h. AUTO-OFF function to preserve the batteries
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **External universal mains adapter**, with universal input and optional input socket adapters for CH, EU, GB, USA, not included, can be retrofitted, KERN YKA-03, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 30 h, charging time approx. 10 h. AUTO-OFF function to preserve the battery, can be retrofitted, KERN PCB-A01, **€ 70,-**
- **Rechargeable battery pack external**, operating time up to 270 h, charging time approx. 10 h, can be retrofitted, KERN KS-A01, **€ 180,-**
- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 182, KERN RFS-A02, **€ 55,-**
- **Suitable test weights**, also with calibration certificate see page 188

STANDARD

CAL EXT · BATT · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION

ACCU · B MULTI · DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Net weight approx. kg	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €
ECE 10K-3N	10	5	5	± 20	1,5	**99,-**	963-128	88,-
ECE 20K-2N	20	10	10	± 40	1,5	**99,-**	963-128	88,-
ECE 50K-2N	50	20	20	± 80	1,5	**99,-**	963-128	88,-
ECB 10K-3N	10	5	5	± 20	2,5	**120,-**	963-128	88,-
ECB 20K-2N	20	10	10	± 40	2,5	**120,-**	963-128	88,-
ECB 50K-2N	50	20	20	± 80	2,5	**120,-**	963-128	88,-

> Here at KERN we know the high demands you make on your bench scales in the various fields of trade, commerce and production. We have therefore developed multi-talented products which will help to make your tasks easier to handle each day and meet your requirements for accuracy and quality.
>
> *Martin Goltz and Michael Stark,*
> *KERN Product management*

Bench scale KERN FCE-N

B

1

2

Entry-level bench scale – mobile, practical, lightweight

Features

- **Simple and convenient 2-key operation**
- **Very fast display:** steady weight values within 2 sec
- 1 Ideal as a compact letter and parcel scale, especially where space is limited
- 2 Ideal as a grading, comissioning or simple checkweighing scale in production or dispatch

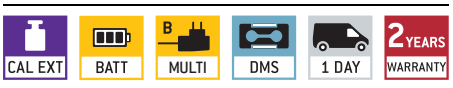
Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions, plastic, WxD 252x228 mm
- Overall dimensions WxDxH 270x345x106 mm
- Optional battery operation, 9 V block not included, operating time up to 12 h. AUTO-OFF function to preserve the battery.
- Net weight approx. 2,5 kg
- Permissible ambient temperature 5 °C / 35 °C

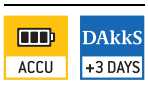
Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN FCB-A02S05, **€ 35,-**
- B **Stainless steel weighing plate**, robust, removable, for easy cleaning, KERN FCE-A01, **€ 35,-**
- **Rechargeable battery pack internal**, AUTO-OFF function to preserve the battery, can be switched off, operating time up to 20 h, charging time approx. 10 h, can be retrofitted, KERN FCB-A01, **€ 50,-**
- **Suitable test weights**, also with calibration certificate see page 188

STANDARD



OPTION



Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €
FCE 3K1N	3	1	2	± 3	**110,-**	963-127	72,-
FCE 6K2N	6	2	2	± 4	**110,-**	963-128	88,-
FCE 15K5N	15	5	10	± 15	**110,-**	963-128	88,-
FCE 30K10N	30	10	10	± 30	**110,-**	963-128	88,-

Bench scale KERN FCB

1

Bench scale with second display on the backside of the scale

Features

- 1 **Second display** on the rear of the balance
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **High mobility:** Battery operation/ rechargeable battery pack (optional), compact construction and low weight make this balance ideal for use in several locations (production, warehouse, dispatch department etc.)

Technical data

- Backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxD 252x228 mm
- Overall dimensions WxDxH 270x345x106 mm
- Optional battery operation, battery 9 V block not standard, operating time up to 12 h
- Net weight approx. 3 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN FCB-A02S05, **€ 30,-**
- **Rechargeable battery pack internal**, operating time up to 10 h without backlight, charging time approx. 10 h, can be retrofitted, KERN FCB-A01, **€ 50,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** see page 177 ff.

STANDARD

OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate** DKD KERN	€
FCB 3K0.1	3	0,1	0,1	± 0,3	0,2	**220,-**	963-127	72,-
FCB 8K0.1	8	0,1	0,1	± 0,3	0,2	**240,-**	963-128	88,-
FCB 6K0.5	6	0,5	0,5	± 1,5	1	**195,-**	963-128	88,-
FCB 12K1	12	1	1	± 3	2	**185,-**	963-128	88,-
FCB 30K1	30	1	1	± 3	2	**220,-**	963-128	88,-
FCB 24K2	24	2	2	± 6	4	**185,-**	963-128	88,-

Bench scale KERN FKB-A

1

Bench scale up to 65 kg with large weighing plate

Features

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- 1 **Particularly practical:** thanks to the large weighing ranges and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts etc.
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxD 340x240 mm
- Overall dimensions WxDxH 350x390x120 mm
- Optional battery operation, 9 V block not included, operating time up to 12 h
- Net weight approx. 6,5 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over keyboard and housing standard. Can be re-ordered, scope of delivery: 5 items, KERN FKB-A02S05, **€ 30,-**
- **Rechargeable battery pack internal**, operating time up to 8 h, charging time approx. 10 h can be retrofitted, KERN PCB-A01, **€ 70,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL EXT · RS 232 · PCS · RECIPE · PERCENT · UNIT · MOVE · UNDER · BATT · MULTI · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION

ACCU · DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	€
FKB 8K0.1A	8	0,1	0,1	± 0,3	0,2	**300,-**	963-128	88,-
FKB 15K0.5A	15	0,5	0,5	± 1,5	1	**290,-**	963-128	88,-
FKB 15K1A	15	1	1	± 2	2	**260,-**	963-128	88,-
FKB 30K1A	30	1	1	± 3	2	**290,-**	963-128	88,-
FKB 65K1A	65	1	1	± 3	2	**300,-**	963-129	105,-

Bench scale KERN GAB-N

1

Application examples:
- Small industrial scale for pharmacies
- Hand mixtures of tea, coffee, chocolates
- Portioning of dough, meat, fish, poultry, mixed salads in cafeterias etc.
- Mobile weighing of freshly picked fruit on site
- High-precision industrial applications

Note: Official verification duty for commercial trade

05

Checkweighing and portioning scale, also with EC type approval [M]

Features

- **Compact size**, practical for small spaces
- **High mobility:** thanks to battery operation (optional)
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading
- **Totalising** of weights

Technical data

- Large backlit LCD display, digit height 24 mm
- Weighing plate dimensions, stainless steel, WxD 294x225 mm
- Overall dimensions WxDxH 320x330x125 mm
- Net weight approx. 3 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- 1 **Signal lamp** for visual support of weighing with tolerance range, for details see page 181, KERN CFS-A03, **€ 250,-**
- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, can be retrofitted, KERN GAB-A04, **€ 40,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD: CAL EXT · RS 232 · PCS · SUM · PERCENT · UNIT · TOL · MULTI · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION: ACCU · DAkkS +3 DAYS

FACTORY: M +3 DAYS (only GAB-DNM)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
GAB 6K0.05N	6	0,05	–	–	0,05	**300,-**	–	–	963-128	88,-
GAB 12K0.1N	12	0,1	–	–	0,1	**300,-**	–	–	963-128	88,-
GAB 30K0.2N	30	0,2	–	–	0,2	**300,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].										
GAB 6K1DNM	3 | 6	1 | 2	1 | 2	20	0,2	**230,-**	965-228	55,-	963-128	88,-
GAB 15K2DNM	6 | 15	2 | 5	2 | 5	40	0,5	**230,-**	965-228	55,-	963-128	88,-
GAB 30K5DNM	15 | 30	5 | 10	5 | 10	100	1	**230,-**	965-228	55,-	963-128	88,-

1

Application examples:
- Small industrial scale for pharmacies
- Hand mixtures of tea, coffee, chocolates
- Portioning of dough, meat, fish, poultry, mixed salads in cafeterias etc.
- pick your own fruit and vegetable sales
- High-precision industrial applications, piece counting or stock-taking

Note: Official verification duty for commercial trade

Checkweighing and portioning scale with integrated printer and EC type approval [M]

Features

- Precise bench scale for applications (which require verification), where the weight values must be documented and archived through print outs or data transfer, such as, e.g. quantities obtained in stocktaking
- The determined weight, quantity, totals, percentage etc. can be printed out with clearly date and time
- **Internal printer:** Robust high-speed thermal printer. Fast and easy change of paper rolls thanks to innovative paper compartment construction
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department etc.)
- **Compact size**, practical for small spaces
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading

Technical data

- Large backlit LCD display, digit height 20 mm
- Weighing plate dimensions, stainless steel, WxD 365x235 mm
- Overall dimensions WxDxH 371x366x131 mm
- Net weight approx. 4,4 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Thermal receipt rolls** (10 pieces), width 56 mm, Ø 51 mm, KERN RFS-A10, **€ 40,-**
- **Signal lamp**, for details see page 181, KERN CFS-A03, **€ 250,-**
- **Rechargeable battery pack internal**, standard, operating time up to 150 hours without backlight and use of printer, charging time approx. 12 h, can be retrofitted, KERN HFM-A01, **€ 50,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

OPTION

FACTORY

only GAB-PM

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options Verification M III KERN	 €	 DAkkS Calibr. Certificate DKD KERN	 €
GAB 6K-5P	6	0,05	–	–	0,05	**600,-**	–	–	963-128	88,-
GAB 10K-4P	12	0,1	–	–	0,1	**590,-**	–	–	963-128	88,-
GAB 30K-4P	30	0,2	–	–	0,2	**590,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].										
GAB 6K-3PM	3 | 6	1 | 2	1 | 2	20	20	**510,-**	965-228	55,-	963-128	88,-
GAB 10K-3PM	6 | 15	2 | 5	2 | 5	40	40	**510,-**	965-228	55,-	963-128	88,-
GAB 30K-3PM	15 | 30	5 | 10	5 | 10	100	100	**510,-**	965-228	55,-	963-128	88,-

! **ONLY WHILE STOCKS LAST**

1

1

Large, high resolution bench scale, also with EC type approval [M]

Features

- Thanks to the high resolution of up to 360,000 points it is ideal for high-precision weighing in the industrial field. It is also available in a version with EC type approval class II for applications which require verification (FKB-M)
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- only FKB: **Freely programmable weighing unit**, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- 1 **Particularly practical:** thanks to the large weighing ranges and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, e.g. gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.

Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxD 340x240 mm
- Dimensions housing WxDxH 350x390x120 mm
- Optional battery operation, batteries 6 x 1.5 V Size C not standard, operating time up to 40 h
- Net weight approx. 6,5 kg
- Permissible ambient temperature
  KERN FKB: 10 °C / 40 °C
  KERN FKB-M: 10 °C / 30 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN FKB-A02S05, **€ 30,-**
- only FKB: **Rechargeable battery pack external**, operating time up to 25 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Tare pan made of stainless steel**, ideal for weighing loose small parts, WxDxH 370x240x20 mm, for details see page 182, KERN RFS-A02, **€ 55,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL EXT · RS 232 · PCS · RECIPE · PERCENT · UNIT · MOVE (only FKB) · UNDER · BATT · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION

ACCU (only FKB) · DAkkS +3 DAYS

FACTORY

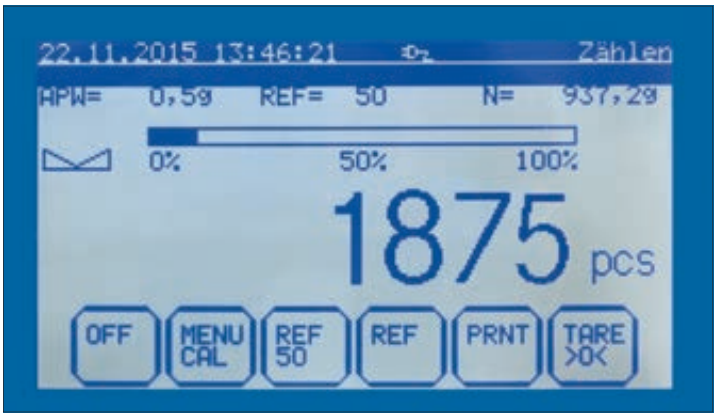
M +3 DAYS (only FKB-M)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Repro-ducibility g	Linearity g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options Verification MII KERN	 €	 DAkkS Calibr. Certificate DKD KERN	 €
FKB 6K0.02	6	0,02	–	0,04	± 0,1	0,02	**510,-**	–	–	963-128	88,-
FKB 8K0.05	8	0,05	–	0,05	± 0,15	0,05	**460,-**	–	–	963-128	88,-
FKB 16K0.05	16	0,05	–	0,1	± 0,25	0,05	**560,-**	–	–	963-128	88,-
FKB 16K0.1	16	0,1	–	0,1	± 0,3	0,1	**460,-**	–	–	963-128	88,-
FKB 36K0.1	36	0,1	–	0,2	± 0,5	0,1	**520,-**	–	–	963-128	88,-
FKB 36K0.2	36	0,2	–	0,2	± 0,6	0,2	**480,-**	–	–	963-128	88,-
FKB 65K0.2	65	0,2	–	0,4	± 1	0,2	**520,-**	–	–	963-129	105,-
FKB 65K0.5	65	0,5	–	0,5	± 1,5	0,5	**480,-**	–	–	963-129	105,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
FKB 8K0.1M	8	0,1	1	0,1	± 0,3	0,1	**540,-**	965-217	77,-	963-128	88,-
FKB 65K1M	65	1	10	1	± 2	1	**550,-**	965-218	110,-	963-129	105,-

Alibi memory

- Ring memory for up to 49,152 measuring results (744 measuring results per day!)
- Saved measuring results cannot be changed or cleared. If the maximum memory capacity is reached, then the oldest value will be overwritten
- In addition to the measuring result, the date, time, tare value, a sequential number and the serial number of the balance are also saved.
- Saved measuring results can be searched and recalled easily
- The alibi memory can also be used for applications which do not require verification
- Complies with WELMEC 2.5

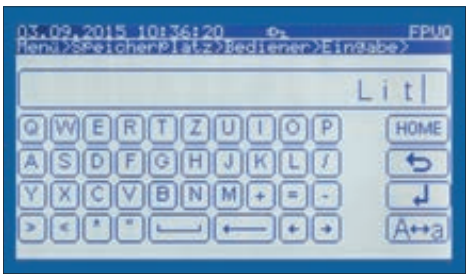
Touchscreen industrial scale with enormous range of functions, also with EC type approval [M]



Display at full size, operating mode counting

Innovative touchscreen: Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading

Advantages:
- The menu and processes are self-explanatory
- No more errors or lost time through keys wich have several functions assigned to them or unclear markings
- Large keys, which can also be operated when wearing gloves
- More efficient, faster and safer working



Easy entering of text and values
e.g. item descriptions, user name, weights of tare containers, etc. using the large keypad

80 memories for each mode (FKT-M: 40)
e.g. for checkweighing, PRE-TARE, reference weight, target weight for dispensing etc.

Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading

Bench scale KERN FKT

Features

- **Convenient recipe weighing:** 99 recipes each with 10 components each can be stored in plain text. If one recipe ingredient is overweight, then the practical recipe adjustment function for when dosages are exceeded automatically calculates the new target weights of the other ingredients. The actual and target values and the proportionate percentage can then be printed. The recipes can be generated easily in an Excel list at the PC and transferred to the balance using the RS-232 interface. Alternatively, the recipes can also be entered directly using the keypad
- **Multiplier function:** recipes with the ingredient weights recorded as percentage values can easily be replicated by entering a new target weight. The ideal solution for the preparation of larger containers, bulk packs etc.
- **Rapid function** for shortened stabilisation time with reduced readout
- **16 print forms** which can store up to 20 different information, such as, e.g., date, time, operator, item, net, tare, gross, PCs, target weight, PRE-TARE etc. The print forms can be generated easily in an Excel list in the PC and transferred to the balance using the RS-232 interface
- **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves etc. (35 V / 80 mA)
- **Hook for underfloor weighing** of hanging loads standard for models with weighing plate size B

Technical data

- Backlit LCD graphic display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Weighing plate dimensions (stainless steel) WxD
  - A 253x228 mm
  - B 340x240 mm, see enlarged picture
- Overall dimensions WxDxH
  - A 270x345x106 mm
  - B 350x390x120 mm
- Optional battery operation, only for models with weighing plate size B, 6 x 1.5 V Size C not included, operating time up to 20 h
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, for models with weighing plate size
  - A KERN FCB-A02S05, **€ 30,-**
  - B KERN FKB-A02S05, **€ 30,-**
- **Rechargeable battery pack external**, operating time up to 10 h, charging time approx. 10 h, not for FKT-M, KERN KS-A01, **€ 180,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04, **€ 250,-**
- **RS-232/Ethernet adapter**, for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01, **€ 390,-**
- **RS-232/USB adapter** to connect peripheral devices with USB connection, for details, see page 181, KERN AFH 12, **€ 85,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

Modes

① Weighing
② Counting
③ Dispensing
④ Recipe weighing
⑤ Checkweighing
⑥ Totalising with daily total
⑦ Percentage determination
⑧ Animal weighing
⑨ Surface weight
⑩ Density determination, only with B, not for M
⑪ Rapid function, not for M

Functions

- Capacity display, with ① - ②, ⑤ - ⑦, ⑨ - ⑪
- Dispensing aid (subtractive/additive), with ③, ④
- Net/gross display, permanent, with ① , ③ - ⑤, ⑧ - ⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ① - ⑦, ⑪
- Input of item or batch description, operator etc., with ① - ⑦, ⑪
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m², or similar, with ⑨
- Date/time, with ① - ⑪
- Statistical function, with ①
- GLP printout, with ① - ⑪
- Individual formatting of up to 16 printer forms, recipes, operating mode master data in MS Excel, import via RS-232, for examples, see the internet, with ① - ⑪

05

STANDARD

OPTION

FACTORY

only FKT-LM

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Minimum load [Min] g	Repro-ducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Options Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
FKT 6K0.1	6	0,1	–	–	0,1	± 0,2	0,1	A	**790,-**	–	–	963-128	88,-
FKT 12K0.2	12	0,2	–	–	0,2	± 0,4	0,2	A	**790,-**	–	–	963-128	88,-
FKT 30K0.5L	30	0,5	–	–	0,5	± 1	0,5	B	**790,-**	–	–	963-128	88,-
FKT 60K1L	60	1	–	–	1	± 2	1	B	**790,-**	–	–	963-129	105,-
High-resolution display													
FKT 6K0.02L	6	0,02	–	–	0,04	± 0,1	0,02	B	**890,-**	–	–	963-128	88,-
FKT 16K0.05L	16	0,05	–	–	0,1	± 0,25	0,05	B	**890,-**	–	–	963-128	88,-
FKT 36K0.1L	36	0,1	–	–	0,2	± 0,5	0,1	B	**890,-**	–	–	963-128	88,-
FKT 65K0.2L	65	0,2	–	–	0,4	± 1	0,2	B	**890,-**	–	–	963-129	105,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.													
FKT 6K1LM	6	1	1	20	0,5	± 0,5	1	B	**890,-**	950-128	55,-	963-128	88,-
FKT 12K2LM	12	2	2	40	1	± 1	1	B	**890,-**	950-128	55,-	963-128	88,-
FKT 30K5LM	30	5	5	100	2,5	± 2,5	5	B	**890,-**	950-128	55,-	963-128	88,-
FKT 60K10LM	60	10	10	200	5	± 5	10	B	**890,-**	950-129	93,-	963-129	105,-

06 Stainless steel/ Protection against dust and water splashes IP65...68

KERN scales – not scared of water at all!

Scales used in industrial situations or the food industry are often exposed to extreme stresses and strains. Water, oils, fats, varnish, dust, dirt, flour, small parts, etc. are all natural enemies of a scale. In industries such as the chemical, pharmaceutical, food, manufacturing industries, etc. scales must be able to cope with these stresses without this affecting their performance.

For use in such harsh environmental conditions, levels of protection are defined, which specify which environmental stresses a system can be exposed to with respect to the level of contact, foreign object and moisture protection, without damage beeing caused to the unit. These levels of protection are described in the following standard: "DIN EN 60529: protecction types through housing"

The IP code usually consists of a two-digit combination, which gives the relevant level of protection, e.g. IP68. The first digit specifies the protection level for contact protection and protection against foreign bodies (dust protection), the second digit is for the water and moisture protection (protection against splashes of water).

All stainless steel components of the IP65...68 protected KERN stainless steel scales are made of corrosion-resistant steel of quality class 1.4301 (DIN X5CrNi18-10). The material properties support you in your ➔ ***HACCP***-compliant quality system.

➔ *See the glossary on page 214 – 216*

Extract from the standard: "DIN EN 60529: protection types through housing":

KERN-Pictogram	1. digit	Specification	2. digit	Specification
IP 65	6	Dustproof	5	Designed for temporary contact with liquids. Use a damp cloth for cleaning.
IP 66	6	Dustproof	6	Protection against water jets.
IP 67	6	Dustproof	7	Designed for temporary use in wet areas. Temporary submersion is possible.
IP 68	6	Dustproof	8	Designed for continuous use in wet areas. Submersion is possible.

KERN SXS

from € **690,–**

▸ page 82

Your product specialist's recommendation:

- **Scale entirely out of stainless steel**
- **Protection against dust and water splashes IP67/68**
- **A vast number of platform sizes available**
- **Superior display size for the very best readout**

Lisa Mayer
Product specialist Stainless steel

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Fax +49 [0] 7433 9933-29219
lisa.mayer@kern-sohn.com

Quick-Finder Stainless steel/Protection against dust and water splashes IP65...68

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL EXT	RS 232	TOL	IP	INOX	ACCU
					For an explanation on the pictos, see the front flap							
0,1 g	0,5 kg	**FOB 500-1S**	**79,-**	74	1		●				●	
0,1 g	0,5 kg	**FOB 0.5K-4NS**	**110,-**	76	1		●			●	●	
0,2 g	1,5 kg	**WTB 1K-4N**	**240,-**	78	1		●		●	●		○
0,2 g	1,5 kg	**FFN 1K-4N**	**275,-**	79	1		●			●	●	●
0,5 g	1,5 kg	**FOB 1.5K0.5**	**175,-**	75	1		●				●	○
0,5 g	1,5 kg	**WTB 1K-4NM**	**260,-**	78	1	○	●		●	●		○
0,5 g	1,5 kg	**FFN 1K-4NM**	**295,-**	79	1	○	●			●	●	●
0,5 g	3 kg	**WTB 3K-4N**	**240,-**	78	1		●		●	●		○
0,5 g	3 kg	**FFN 3K0.5IPN**	**275,-**	79	1		●			●	●	●
0,5 g	3 kg	**FXN 3K-4N**	**335,-**	80	1		●		●	●	●	
0,5 | 1 g	5 | 7,5 kg	**FOB 7K-4NL**	**245,-**	77	1		●			●	●	
1 g	1 kg	**FOB 1K1M**	**195,-**	75	1	○	●				●	○
1 g	3 kg	**FOB 3K1**	**183,-**	75	1		●				●	○
1 g	3 kg	**WTB 3K-3NM**	**260,-**	78	1	○	●		●	●		○
1 g	3 kg	**FFN 3K1IPM**	**295,-**	79	1	○	●			●	●	●
1 g	5 kg	**FOB 5K1S**	**79,-**	74	1		●				●	
1 g	5 kg	**FOB 5K-3NS**	**105,-**	76	1		●			●	●	
1 g	6 kg	**WTB 6K-3N**	**240,-**	78	1		●		●	●		○
1 g	6 kg	**FFN 6K1IPN**	**275,-**	79	1		●			●	●	●
1 g	6 kg	**FXN 6K-3N**	**335,-**	80	1		●		●	●	●	
1 g	10 kg	**SFB 10K1HIP**	**720,-**	81	1		●	○	●	●	●	●
1 g	15 kg	**FOB 15K1L**	**320,-**	75	1		●				●	○
1 | 2 g	3 | 6 kg	**SXS 6K-3M**	**690,-**	82	1	○	●	○	●	●	●	●
1 | 2 g	8 | 15 kg	**FOB 10K-3NL**	**245,-**	77	1		●			●	●	
2 g	6 kg	**FOB 6K2**	**180,-**	75	1		●				●	○
2 g	6 kg	**WTB 6K-3NM**	**260,-**	78	1	○	●		●	●		○
2 g	6 kg	**FFN 6K2IPM**	**295,-**	79	1	○	●			●	●	●
2 g	15 kg	**WTB 10K-3N**	**240,-**	78	1		●		●	●		○
2 g	15 kg	**FFN 15K2IPN**	**275,-**	79	1		●			●	●	●
2 g	15 kg	**FXN 10K-3N**	**335,-**	80	1		●		●	●	●	
2 g	20 kg	**SFB 20K2HIP**	**720,-**	81	1		●	○	●	●	●	●
2 g	30 kg	**FOB 30K2L**	**320,-**	75	1		●				●	○
2 | 5 g	6 | 15 kg	**SXS 10K-3M**	**690,-**	82	1	○	●	○	●	●	●	●
2 | 5 g	6 | 15 kg	**SXS 10K-3LM**	**850,-**	82	1	○	●	○	●	●	●	●
2 | 5 g	16 | 30 kg	**FOB 30K-3NL**	**245,-**	77	1		●			●	●	
5 g	15 kg	**WTB 10K-3NM**	**260,-**	78	1	○	●		●	●		○
5 g	15 kg	**FFN 15K5IPM**	**295,-**	79	1	○	●			●	●	●
5 g	15 kg	**SFB 15K5HIPM**	**740,-**	81	1	○	●	○	●	●	●	●
5 g	25 kg	**FFN 25K5IPN**	**275,-**	79	1		●			●	●	●
5 g	30 kg	**WTB 30K-3N**	**240,-**	78	1		●		●	●		○
5 g	30 kg	**FXN 30K-3N**	**335,-**	80	1		●		●	●	●	
5 g	50 kg	**SFB 50K5HIP**	**720,-**	81	1		●	○	●	●	●	●
5 g	50 kg	**SFB 50K5LHIP**	**770,-**	81	1		●	○	●	●	●	●
5 g	50 kg	**SFB 50K-3XL**	**890,-**	81	1		●	○	●	●	●	●
5 | 10 g	15 | 30 kg	**SXS 30K-2M**	**840,-**	82	1	○	●	○	●	●	●	●
5 | 10 g	15 | 30 kg	**SXS 30K-2LM**	**1160,-**	82	1	○	●	○	●	●	●	●
10 g	25 kg	**FFN 25K10IPM**	**295,-**	79	1	○	●			●	●	●
10 g	30 kg	**WTB 30K-2NM**	**260,-**	78	1	○	●		●	●		○
10 g	30 kg	**SFB 30K10HIPM**	**740,-**	81	1	○	●	○	●	●	●	●
10 g	100 kg	**SFB 100K10HIP**	**770,-**	81	1		●	○	●	●	●	●
10 g	100 kg	**SFB 100K-2L**	**890,-**	81	1		●	○	●	●	●	●
10 g	100 kg	**SFB 100K-2XL**	**1210,-**	81	1		●	○	●	●	●	●
10 | 20 g	30 | 60 kg	**SXS 60K-2M**	**850,-**	82	1	○	●	○	●	●	●	●
10 | 20 g	30 | 60 kg	**SXS 60K-2LM**	**1160,-**	82	1	○	●	○	●	●	●	●
20 g	60 kg	**SFB 60K20HIPM**	**740,-**	81	1	○	●	○	●	●	●	●
20 g	60 kg	**SFB 60K20LHIPM**	**810,-**	81	1	○	●	○	●	●	●	●
20 g	60 kg	**SFB 60K-2XLM**	**980,-**	81	1	○	●	○	●	●	●	●
20 g	200 kg	**SFB 200K-2XL**	**1210,-**	81	1		●	○	●	●	●	●
20 | 50 g	60 | 150 kg	**SXS 100K-2M**	**1150,-**	82	1	○	●	○	●	●	●	●
20 | 50 g	60 | 150 kg	**SXS 100K-2LM**	**1380,-**	82	1	○	●	○	●	●	●	●
50 g	150 kg	**SFB 100K-2HM**	**810,-**	81	1	○	●	○	●	●	●	●
50 g	150 kg	**SFB 100K-2LM**	**980,-**	81	1	○	●	○	●	●	●	●
50 g	150 kg	**SFB 100K-2XLM**	**1220,-**	81	1	○	●	○	●	●	●	●
50 | 100 g	150 | 300 kg	**SXS 300K-2M**	**1380,-**	82	1	○	●	○	●	●	●	●
100 g	300 kg	**SFB 300K-1LM**	**1220,-**	81	1	○	●	○	●	●	●	●

● = Standard ○ = Option

Stainless steel bench scale KERN FOB-S

Economical stainless steel balance in a compact design

Features

- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- Your support in an **HACCP**-compliant quality system
- **High mobility:** thanks to compact, flat construction, it is suitable for use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- Secure and non-slip positioning through rubber feet
- **Ready for use:** battery 9 V Block standard, operating time up to 20 h

Technical data

- Large LCD display, digit height 20 mm
- Weighing plate dimensions, stainless steel WxD 120x150 mm
- Overall dimensions WxDxH 170x150x40 mm
- Permissible ambient temperature 10° C / 40° C

Accessories

- **Protective working cover** over keyboard and housing, not standard, can be reordered, scope of delivery: 5 items, KERN FOB-A11S05, **€ 50,-**
- **Mains adapter external,** not included, can be reordered, KERN FOB-A09, **€ 30,-**

STANDARD

OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	 €
FOB 500-1S	0,5	0,1	0,65	A	**79,-**	963-127	72,-
FOB 5K1S	5	1	0,65	A	**79,-**	963-127	72,-

Stainless steel bench scale KERN FOB

Stainless steel balance with special protection against humidity, also with EC-Type Approval [M]

Features

- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **High mobility:** thanks to compact, flat construction, it is suitable for use in several locations (kitchen, sales office, market stall etc.)
- Secure and non-slip positioning through rubber feet
- Your support in an **HACCP**-compliant quality system
- **Increased protection against humidity** through waterproof silicone sealing of the load cell, electronics and soldering joints
- only FOB, FOB-L: **Net/Gross weight:** to control the consumed weighing range at the touch of a key

Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel WxD
  - A 175x160 mm,
  - B 215x215 mm
- Overall dimensions WxDxH
  - A 175x235x60 mm,
  - B 220x305x80 mm
- Net weight
  - A approx. 1,95 kg,
  - B approx. 3,3 kg,
- Permissible ambient temperature
  KERN FOB: -10° C / 40° C
  KERN FOB-M: 0° C / 40° C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, scope of delivery: 5 items, for weighing plate size
  A KERN FOB-A05S05, **€ 35,-**
  B KERN FOB-A06S06, **€ 40,-**
- **Rechargeable battery pack internal,** for weighing plate size
  A operating time approx. 24 h without backlight, charging time approx. 8 h, KERN FOB-A07, **€ 45,-**
  B operating time approx. 30 h without backlight, charging time approx. 14 h, KERN FOB-A08, **€ 55,-**

STANDARD: CAL EXT · INOX · 230 V · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION: ACCU · DAkkS +3 DAYS

FACTORY: M +3 DAYS (only FOB-M)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Minimum load [Min] g	Weighing plate	Price excl. of VAT ex works €	Options: Verification M III KERN	Options: Verification € €	Options: DAkkS Calibr. Certificate DKD KERN	Options: DAkkS Calibr. Certificate € €
FOB 1.5K0.5	1,5	0,5	–	–	A	**175,-**	–	–	963-127	72,-
FOB 3K1	3	1	–	–	A	**183,-**	–	–	963-127	72,-
FOB 6K2	6	2	–	–	A	**180,-**	–	–	963-128	88,-
FOB 15K1L	15	1	–	–	B	**320,-**	–	–	963-128	88,-
FOB 30K2L	30	2	–	–	B	**320,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
FOB 1K1M	1	1	1	20	A	**195,-**	965-227	55,-	963-127	72,-

Stainless steel scale KERN FOB-NS

06

Particularly handy stainless steel balance with IP65 protection against dust and water splashes

Features

- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **Particularly flat design**
- Your support in a **HACCP**-compliant quality system
- **High mobility:** thanks to compact, flat construction, it is suitable for use in several locations (kitchen, sales office, market stall etc.)
- Secure and non-slip positioning with rubber feet
- **IP65:** Protected against dust and water splashes (only when using battery)
- **Ready for use:** battery 9 V block standard, operating time up to 24 h

Technical data

- Large LCD display, digit height 20 mm
- Overall dimensions WxDxH 170x150x40 mm
- Permissible ambient temperature 10 °C / 35 °C

Accessories

- **Protective working cover** over keyboard and housing standard. Can be re-ordered, scope of delivery: 5 items KERN FOB-A12S05, **€ 30,-**
- **Mains adapter external**, not included, can be retrofitted, KERN FOB-A09, **€ 30,-**

STANDARD

OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	Weighing plate mm	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate** DKD KERN	€
FOB 0.5K-4NS	0,5	0,1	0,7	150x120	**110,-**	963-127	72,-
FOB 5K-3NS	5	1	0,7	150x120	**110,-**	963-127	72,-

Stainless steel scale KERN FOB-N

Stainless steel bench scale with large weighing range and IP67 protection against dust and water splashes

Features

- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- Your support in a **HACCP**-compliant quality system
- **High mobility:** thanks to compact, flat construction, it is suitable for use in several locations (kitchen, sales office, market stall etc.)
- Secure and non-slip positioning with rubber feet
- **IP67:** Protected against dust and water splashes (only when using battery)
- **Ready for use:** batteries 4 x 1.5 V AA standard, operating time up to 66 h without backlight

Technical data

- Large backlit LCD display, digit height 25 mm
- Overall dimensions WxDxH 285x255x90 mm
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over keyboard and housing standard. Can be re-ordered, KERN FOB-A13S05, **€ 50,-**
- **Mains adapter external**, not included, can be retrofitted, KERN FOB-A09, **€ 30,-**

STANDARD

OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	Weighing plate mm	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate**	
						DKD KERN	€
FOB 7K-4NL	5 | 7,5	0,5 | 1	3,75	252x200x14	**245,-**	963-128	88,-
FOB 10K-3NL	8 | 15	1 | 2	3,75	252x200x14	**245,-**	963-128	88,-
FOB 30K-3NL	16 | 30	2 | 5	3,75	252x200x14	**245,-**	963-128	88,-

IP protected bench scale KERN WTB-N

2

3

4

Ideal for food industry, thanks to its IP65 protection and special checkweighing display, now also with EC type approval [M]

Features

- **Suitable for the ever-increasing hygienic requirements in the food industry**
- 1 **IP65:** Dust and spray protected (only when using rechargeable battery pack)
- Weighing plate stainless steel, removable, for easy cleaning
- 2 **Second display** on the rear of the balance
- **Compact size**, practical for small spaces
- 3 **Innovative weighing with tolerance range (Checkweighing)**: The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning dosing and grading
- **High mobility** thanks to its rechargeable batteries (optional) and low weight
- **Recessed grips on the underside** of the scale for easy transportation
- Your support in a **HACCP**-compliant quality system

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxD 260x200 mm
- Overall dimensions WxDxH 280x320x125 mm
- Net weight approx. 3,115 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing. Can be re-ordered, scope of delivery: 5 items, KERN RFB-A01S05, **€ 30,-**
- **Rechargeable battery pack internal**, operating time up to 50 h, charging time approx. 12 h, can be retrofitted, KERN WTB-A01N, **€ 35,-**
- 4 **Tare pan made of stainless steel**, ideal for weighing loose fruit and vegetables, WxDxH 370x240x20 mm, for details see page 182, KERN RFS-A02, **€ 55,-**
- **Sturdy transport case** to protect and store the scale, dimensions WxDxH 510x360x220 mm, for details see page 182, KERN RFB-A02, **€ 95,-**

STANDARD: CAL EXT · UNIT · TOL · IP 65 · MULTI · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION: ACCU · DAkkS +3 DAYS

FACTORY: M +3 DAYS

1

Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options: Verification KERN	Options: Verification €	Options: DAkkS Calibr. Certificate KERN	Options: DAkkS Calibr. Certificate €
WTB 1K-4N	1,5	0,2	–	–	**240,-**	–	–	963-127	72,-
WTB 3K-4N	3	0,5	–	–	**240,-**	–	–	963-127	72,-
WTB 6K-3N	6	1	–	–	**240,-**	–	–	963-128	88,-
WTB 10K-3N	15	2	–	–	**240,-**	–	–	963-128	88,-
WTB 30K-3N	30	5	–	–	**240,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.									
WTB 1K-4NM	1,5	0,5	0,5	10	**260,-**	965-227	55,-	963-127	72,-
WTB 3K-3NM	3	1	1	20	**260,-**	965-227	55,-	963-127	72,-
WTB 6K-3NM	6	2	2	40	**260,-**	965-228	55,-	963-128	88,-
WTB 10K-3NM	15	5	5	100	**260,-**	965-228	55,-	963-128	88,-
WTB 30K-2NM	30	10	10	200	**260,-**	965-228	55,-	963-128	88,-

IP protected bench scale KERN FFN-N

1

2

All-round bench scale, protected by stainless steel and IP65 rating, now also with EC type approval [M]

Features

- 1 **Ideal for the food industry**
- 2 **Ideal for the robust industrial applications**
- Your support in a **HACCP**-compliant quality system
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations such as production, kitchen, sales office etc.
- **Stainless steel housing**, rust-proof and easy to clean
- **Recessed grips on the underside** of the scale for easy transportation
- 3 **IP65:** Dust and spray protected (only when using rechargeable battery pack)

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxD 230x190 mm
- Overall dimensions 230x298x125 mm
- **Rechargeable battery pack internal**, standard, operating time up to 50 h without backlight, charging time approx. 12 h. Can be re-ordered, KERN WTB-A01N, **€ 35,-**
- Net weight approx. 3,8 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 182, KERN RFS-A02, **€ 55,-**

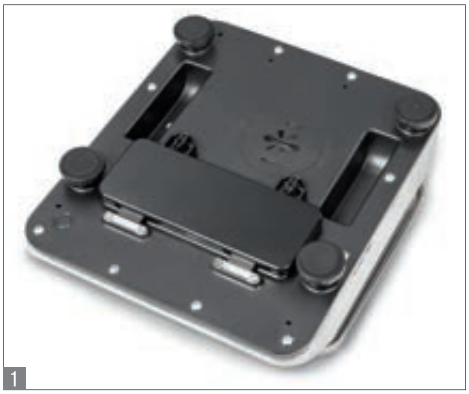
STANDARD: CAL EXT · UNIT · IP 65 (3) · INOX · ACCU · MULTI · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
FFN 1K-4N	1,5	0,2	–	–	**275,-**	–	–	963-127	72,-
FFN 3K0.5IPN	3	0,5	–	–	**275,-**	–	–	963-127	72,-
FFN 6K1IPN	6	1	–	–	**275,-**	–	–	963-128	88,-
FFN 15K2IPN	15	2	–	–	**275,-**	–	–	963-128	88,-
FFN 25K5IPN	25	5	–	–	**275,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.									
FFN 1K-4NM	1,5	0,5	0,5	10	**295,-**	965-227	55,-	963-127	72,-
FFN 3K1IPM	3	1	1	20	**295,-**	965-227	55,-	963-127	72,-
FFN 6K2IPM	6	2	2	40	**295,-**	965-228	55,-	963-128	88,-
FFN 15K5IPM	15	5	5	100	**295,-**	965-228	55,-	963-128	88,-
FFN 25K10IPM	25	10	10	200	**295,-**	965-228	55,-	963-128	88,-

IP protected bench scale KERN FXN


1

2

Robust, space-saving bench scale, protected by stainless steel and IP68 rating – now high resolution and with EC type approval [M]

Features

- **Suitable for the ever-increasing hygienic requirements in the food industry**
- **Tough industry standard suitable for use in harsh industrial applications**
- Your support in a **HACCP**-compliant quality system
- **IP68 protection:** very high class of protection against dust and water. Making it very robust and durable. Ideal for harsh ambient conditions. Submersion in water actually possible
- **Stainless steel housing**, rust-proof and easy to clean
- **Very fast display:** steady weight values within 2 sec
- **High mobility:** Battery operation, compact construction and low weight make this balance ideal for use in several locations (production, kitchen, sales office etc.)
- 1 **Recessed grips on the underside** of the scale for easy transportation
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxD 236x195 mm
- Overall dimensions WxDxH 240x280x120 mm
- Ready for use: Batteries included, 4 x 1.5 V Size D, operating time up to 200 h, AUTO-OFF function to preserve the batteries, can be switched off
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- 2 **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 182, KERN RFS-A02, **€ 55,-**

STANDARD

OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate** DKD KERN	 €
FXN 3K-4N	3	0,5	0,5	**335,-**	963-127	72,-
FXN 6K-3N	6	1	1	**335,-**	963-128	88,-
FXN 10K-3N	15	2	2	**335,-**	963-128	88,-
FXN 30K-3N	30	5	5	**335,-**	963-128	88,-

KERN SFB

3 KERN SFB-H

4 KERN BFS-A07

Stainless steel platform scales with IP65/67 protection, also with XL platform or EC type approval [M]

Features

- **Ideal for the robust industrial applications**
- Your support in a **HACCP**-compliant quality system
- 1 **Platform: IP67**, made entirely of stainless steel, silicone-coated stainless load cell
- 2 **Display device: IP65** (only when using rechargeable battery pack), stainless steel
- 3 only SFB-H: **column**, standard, for models with weighing plate size 300x240 mm: height of stand approx. 200 mm 400x300 mm: height of stand approx. 400 mm

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 2 m
- **Rechargeable battery pack internal**, standard, operating time up to 35 h without backlight, charging time approx. 12 h. Can be re-ordered, KERN GAB-A04, **€ 40,–**
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Data interface RS-232**, interface cable included approx. 1.5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Stand** to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01, **€ 75,-**
- 4 **Stand**, height of stand 750-1000 mm, must be ordered at purchase, KERN BFS-A07, **€ 120,-**
- **Suitable printers**, see page 177

STANDARD: CAL EXT · GLP PRINTER · PCS · SUM · TOL · IP 65 [2] · IP 67 [1] · INOX · ACCU · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: RS 232 · M +3 DAYS (only SFB-M/ SFB-HM)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate WxD mm	Price excl. of VAT ex works €	Options: Verification KERN	Options: Verification €	Options: DAkkS Calibr. Certificate KERN	Options: DAkkS Calibr. Certificate €
SFB 50K-3XL	50	5	–	–	15	500x400	**890,-**	–	–	963-128	88,-
SFB 100K-2L	100	10	–	–	15	500x400	**890,-**	–	–	963-129	105,-
SFB 100K-2XL	100	10	–	–	24,5	650x500	**1210,-**	–	–	963-129	105,-
SFB 200K-2XL	200	20	–	–	24,5	650x500	**1210,-**	–	–	963-129	105,-
with elevated display											
SFB 10K1HIP	10	1	–	–	9	300x240	**720,-**	–	–	963-128	88,-
SFB 20K2HIP	20	2	–	–	9	300x240	**720,-**	–	–	963-128	88,-
SFB 50K5HIP	50	5	–	–	9	300x240	**720,-**	–	–	963-128	88,-
SFB 50K5LHIP	50	5	–	–	14	400x300	**770,-**	–	–	963-128	88,-
SFB 100K10HIP	100	10	–	–	14	400x300	**770,-**	–	–	963-129	105,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
SFB 60K-2XLM	60	20	20	400	15	500x400	**980,-**	965-229	93,-	963-129	105,-
SFB 100K-2LM	150	50	50	1000	15	500x400	**980,-**	965-229	93,-	963-129	105,-
SFB 100K-2XLM	150	50	50	1000	24,5	650x500	**1220,-**	965-229	93,-	963-129	105,-
SFB 300K-1LM	300	100	100	2000	24,5	650x500	**1220,-**	965-229	93,-	963-129	105,-
with elevated display											
SFB 15K5HIPM	15	5	5	100	9	300x240	**740,-**	965-228	55,-	963-128	88,-
SFB 30K10HIPM	30	10	10	200	9	300x240	**740,-**	965-228	55,-	963-128	88,-
SFB 60K20HIPM	60	20	20	400	9	300x240	**740,-**	965-229	93,-	963-129	105,-
SFB 60K20LHIPM	60	20	20	400	14	400x300	**810,-**	965-229	93,-	963-129	105,-
SFB 100K-2HM	150	50	50	1000	14	400x300	**810,-**	965-229	93,-	963-129	105,-

1

Stainless steel platform scale with stainless steel IP68 display and EC type approval [M]

Features

- **Ideal for the robust industrial applications**
- 1 **Platform: IP67**, made entirely of stainless steel, silicone-coated stainless load cell. Substruction in wing design, extremely resistant to bending
- 2 **Display device: IP68**, very high class of protection against dust and water. Integrated power supply. For further details on the KERN KXS-TM display device, see page 148
- **Suitable for the ever-increasing hygienic requirements in the food industry**
- **Wall mount standard**
- **Superior display size:** digit height 55 mm. Bright backlight for easy reading of weighing results, even in poor lighting conditions
- Thanks to the RS-232, RS-485 and Bluetooth (optional) **interfaces**, the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- **ESD drain to protect against electrostatic discharge** e.g. for electrostatically-charged weighing objects or people who work with the scale

Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel, WxDxH
  A 300x240x86 mm, B 400x300x89 mm
  C 500x400x123 mm, D 650x500x133.5 mm
- Dimensions of display device WxDxH 232x170x80 mm
- **Rechargeable battery pack internal**, standard, operating time up to 80 h without backlight, charging time approx. 12 h. Can be re-ordered, KERN GAB-A04, **€ 40,-**
- Cable length of display device approx. 2,5 m

Accessories

- **Stand** to elevate display device, must be ordered at purchase, for models with weighing plate size A - D: height of stand approx. 200 mm, KERN IXS-A02, **€ 70,-**
  B - D: height of stand approx. 400 mm, KERN IXS-A03, **€ 75,-**
  C - D: height of stand approx. 600 mm, KERN IXS-A04, **€ 85,-**
- **Data interface RS-232**, interface cable included approx. 1.5 m, must be ordered at purchase, KERN KXS-A04, **€ 40,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 85,-**
- **Bluetooth data interface** for wireless data transfer to PC, must be ordered at purchase, KERN KXS-A02, **€ 110,-**
- **Foot switch**, must be ordered at purchase, for details see page 181, KERN KXS-A03, **€ 70,-**
- **Suitable printers** see page 177.

STANDARD: CAL EXT · GLP PRINTER · PCS · TOL · MOVE · IP 67 [1] · IP 68 [2] · INOX · ACCU · 230 V · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: RS 232 · RS 485 · BT [1] · M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options Verification MIII KERN	 €	DAkkS Calibr. Certificate DKD KERN	 €
SXS 6K-3M	3 | 6	1 | 2	1 | 2	20 | 40	5,1	A	**690,-**	965-228	55,-	963-128	88,-
SXS 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	5,1	A	**690,-**	965-228	55,-	963-128	88,-
SXS 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	11,8	B	**850,-**	965-228	55,-	963-128	88,-
SXS 30K-2M	15 | 30	5 | 10	5 | 10	100 | 200	11,8	B	**850,-**	965-228	55,-	963-128	88,-
SXS 30K-2LM	15 | 30	5 | 10	5 | 10	100 | 200	20,8	C	**1160,-**	965-228	55,-	963-128	88,-
SXS 60K-2M	30 | 60	10 | 20	10 | 20	200 | 400	11,8	B	**850,-**	965-229	93,-	963-129	105,-
SXS 60K-2LM	30 | 60	10 | 20	10 | 20	200 | 400	20,8	C	**1160,-**	965-229	93,-	963-129	105,-
SXS 100K-2M	60 | 150	20 | 50	20 | 50	400 | 1000	20,8	C	**1150,-**	965-229	93,-	963-129	105,-
SXS 100K-2LM	60 | 150	20 | 50	20 | 50	400 | 1000	36,5	D	**1380,-**	965-229	93,-	963-129	105,-
SXS 300K-2M	150 | 300	50 | 100	50 | 100	1000 | 2000	36,5	D	**1380,-**	965-229	93,-	963-129	105,-

Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Price computing scales

Price computing scales are used wherever the price of goods is calculated dependent on the weight of the goods. These scales are subject to obligatory verification (➔ ***Verification***) in accordance with European Directive 2009/23/EC. Usually, are verification class M III scales.

KERN mobile retail scales are compact in size and therefore save space on the sales counter. Thanks to the simple menu structure they are easy to use – saving time and money.

Fitted with mains or rechargeable batteries as standard, price computing scales can be used in retail shops as well as on mobile sales stalls.

All price computing scales from KERN have three displays showing you all important information at a glance:

- Weight display in kg (verifiable)
- Unit price in €/kg or €/100 g
- Total price in €

Even the KERN entry level retail scales have direct access keys for memories (➔ ***PLU***). The sales item with the relevant price can be stored against these PLU. In this way, frequently used sales items can called up at lightning speed. This accelerates customer service and reduces waiting times.

➔ ***See the glossary on page 214 – 216***

Quick-Finder Price computing scales

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL EXT	MEMORY	RS 232	ACCU
					For an explanation on the pictos, see the front flap					
1 | 2 g	3 | 6 kg	**RPB 6K1DM**	**225,-**	84	1	○	●	●	●	○
1 | 2 g	3 | 6 kg	**RPB 6K1DHM**	**250,-**	84	1	○	●	●	●	○
2 | 5 g	6 | 15 kg	**RPB 15K2DM**	**225,-**	84	1	○	●	●	●	○
2 | 5 g	6 | 15 kg	**RPB 15K2DHM**	**250,-**	84	1	○	●	●	●	○
5 | 10 g	15 | 30 kg	**RPB 30K5DM**	**225,-**	84	1	○	●	●	●	○
5 | 10 g	15 | 30 kg	**RPB 30K5DHM**	**250,-**	84	1	○	●	●	●	○

● = Standard ○ = Option

Your product specialist's recommendation:

- **Intuitive operation**
- **Large number of item memories**
- **Robust construction**

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Product specialist
Price computing scales

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HIGH-LIGHT

from € **225,-**

▸ page 84

KERN RPB

Price computing scale KERN RPB

1

2

3

Application examples:
- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: Official verification duty for commercial trade

07

Retail scale with memories for item prices

Features

- 1 **Elevated display** backlit, revolving on column, height of stand approx. 530 mm, only RPB-HM, must be ordered at purchase
- 2 **Second display** on the rear of the balance, standard (only with models without the elevated indicator)
- **Three displays** for: weight (verifiable), unit price, total price
- **Unit price can be switched** from €/kg to €/100 g
- **Memory (PLU) for 10 article prices**
- **Auto-clear-key:** Unit price entry is automatically set to zero when scale is unloaded
- 3 **High mobility** thanks to its rechargeable batteries (optional) and low weight

Technical data

- Large backlit LCD displays, digit height 20 mm
- Weighing plate dimensions, stainless steel, WxD 294x225 mm
- Overall dimensions WxDxH 320x350x125 mm
- Net weight
  RPB: approx. 3,5 kg,
  RPB-H: approx. 4,7 kg
- Permissible ambient temperature
  -10 °C / 40 °C

Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 14 h (internal charging via mains adapter). AUTO-OFF function to preserve the battery, can be switched off, KERN GAB-A04, **€ 40,-**
- **Tare pan made of stainless steel**, ideal for weighing loose fruit and vegetables, WxDxH 370x240x20 mm, for details see page 182, KERN RFS-A02, **€ 55,-**
- **Suitable printers** see page 177 ff.

STANDARD: CAL EXT, MEMORY, RS 232, RECIPE, MULTI, DMS, 1 DAY, 2 YEARS WARRANTY
OPTION: ACCU, DAkkS +3 DAYS
FACTORY: M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options Verification KERN	 €	DAkkS Calibr. Certificate DKD KERN	 €
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].									
RPB 6K1DM	3 | 6	1 | 2	1 | 2	20	**225,-**	965-228	55,-	963-128	88,-
RPB 15K2DM	6 | 15	2 | 5	2 | 5	40	**225,-**	965-228	55,-	963-128	88,-
RPB 30K5DM	15 | 30	5 | 10	5 | 10	100	**225,-**	965-228	55,-	963-128	88,-
with elevated display									
RPB 6K1DHM	3 | 6	1 | 2	1 | 2	20	**250,-**	965-228	55,-	963-128	88,-
RPB 15K2DHM	6 | 15	2 | 5	2 | 5	40	**250,-**	965-228	55,-	963-128	88,-
RPB 30K5DHM	15 | 30	5 | 10	5 | 10	100	**250,-**	965-228	55,-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

> Are you recording quantities manually in Goods Inwards? That's old hat. The intelligent KERN PC balance systems are state-of-the-art, and make Goods Inwards and stocktaking simple and uncomplicated. They give precise values, quickly and flexibly and therefore save a lot of time and money.
>
> *Dieter Oßwald, KERN Goods Inwards*

Interesting facts about density determination

Minimum piece weight
Smallest piece the scale will accept for piece counting and piece count display. In practice, depending on the required accuracy, we recommend to choose a counting scale with a minimum piece weight smaller than the weight of the item to be counted.

➔ *Counting resolution*
Describes the maximum quantity which can be counted with a counting accuracy of 1 %, with a minimum variation of item weights and a sufficiently large **➔ *reference quantity***
(20 pieces with counting resolution ≤ 60,000 points, 50 pieces from 60,000 – 150,000 points, 100 pieces ≥ 150,000 points). This therefore is an indication of the quality of the counting scale.

Recommended ➔ *reference quantity*
Weight tolerances of pieces to be counted are the the most significant sources of error when counting. Therefore, at the start of every counting procedure, establish an average weight, the so-called **➔ *reference weight***, by placing several pieces on the scale, the so-called reference quantity. Usually this would be:

5 pieces	>>	often sufficient
10 pieces	>>	common practise
20 – 100 pieces	>>	for large deviations among piece weights

The "automatic **➔ *reference optimisation***" function increases the reference quantity gradually, whereby the average piece weight is optimised step by step. This contributes considerably to the accuracy of the subsequent counting processes.

Which counting scale for which application?

Simple counting scale
with self-explanatory user guidance on the keyboard. The graphic control panel enables you to start working immediately, without having to consult the user manual. Easy handling, value for money.

Professional counting scale
with 3 separate displays for reference weight (average weight of the pieces), total weight of all pieces and total quantity of all pieces. Very useful integrated memories, e.g. for container weight, item number, reference weight as well as audible and visual counting aids and an alphanumeric key pad for easy data entry.

Special tip for counting large quantities: Counting systems
The weighing ranges of bench counting scales are often not sufficient to count large quantities, units, palletized items, etc. Here high-performance counting systems come into operation, as these combine a high-precision reference scale with a high-capacity bulk scale.

Special stocktaking scales SMT, FKA and FKC
For demanding quantity measurement, e.g. as part of a stocktake. With its easy-to-use touch screen, special stocktaking software and PC connection this makes it quicker to collect and analyse stock levels

➔ *See the glossary on page 214 – 216*

HIGH-LIGHT

only € 950,–

▸ page 96

KERN FKA

Your product specialist's recommendation:

- **Intelligent, rapid inventory system**
- **Enormous item memory**
- **Intuitive touchscreen operation**

Tanja Jetter
Product specialist Counting scales

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Quick-Finder Counting scales/Counting systems/Special stocktaking scales

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL EXT	MEMORY	RS 232	DUAL	PCS	ACCU
					For an explanation on the pictos, see the front flap							
0,1 mg	6 | 15 kg	**CCT 10K-7**	**3100,-**	102	2	○	●	●	●		●	
0,001 g	0,3 kg	**CFS 300-3**	**350,-**	91	1		●	●	●	●	●	○
0,001 g	0,36 kg	**CKE 360-3**	**310,-**	92	1		●		●		●	○
0,001 g	6 kg	**CCS 6K-6**	**670,-**	98	2		●	●	●	●	●	○
0,001 g	6 kg	**CCT 6K-6**	**4100,-**	102	2	○	●	●	●		●	
0,001 g	6 | 15 kg	**CCT 10K-6**	**2700,-**	102	2	○	●	●	●		●	
0,001 g	15 kg	**CCS 10K-6**	**710,-**	98	2		●	●	●	●	●	○
0,001 g	30 | 60 kg	**CCT 60K-6**	**2800,-**	102	2	○	●	●	●		●	
0,001 g	36 kg	**FKC 30K-6**	**1280,-**	97	2		●	●	●	●	●	○
0,001 g	65 kg	**FKC 60K-6**	**1280,-**	97	2		●	●	●	●	●	○
0,01 g	2 kg	**CKE 2000-2**	**350,-**	92	1		●		●		●	○
0,01 g	3 kg	**CFS 3K-5**	**300,-**	91	1		●	●	●	●	●	○
0,01 g	3,6 kg	**CKE 3600-2**	**370,-**	92	1		●		●		●	○
0,01 g	15 | 30 kg	**CCT 30K-5**	**2800,-**	102	2	○	●	●	●		●	
0,01 g	30 kg	**CCS 30K0.01.**	**580,-**	98	2		●	●	●	●	●	○
0,01 g	30 | 60 kg	**CCT 60K-5**	**2800,-**	102	2	○	●	●	●		●	
0,01 g	36 kg	**FKC 30K-5**	**1260,-**	97	2		●	●	●	●	●	○
0,01 g	60 kg	**CCS 60K0.01.**	**580,-**	98	2		●	●	●	●	●	○
0,01 g	60 kg	**CCS 60K0.01L**	**660,-**	98	1		●	●	●	●	●	○
0,01 g	60 | 150 kg	**CCT 100K-5**	**2900,-**	102	2	○	●	●	●		●	
0,01 g	65 kg	**FKC 60K-5**	**1260,-**	97	2		●	●	●	●	●	○
0,01 g	150 kg	**CCS 150K0.01L**	**890,-**	98	1		●	●	●	●	●	○
0,01 g	150 kg	**CCS 150K0.01**	**660,-**	98	2		●	●	●	●	●	○
0,01 g	150 | 300 kg	**CCT 300K-5**	**3000,-**	102	2	○	●	●	●		●	
0,01 g	300 kg	**CCS 300K0.01.**	**890,-**	98	2		●	●	●	●	●	○
0,01 g	600 kg	**CCS 600K-2**	**1450,-**	98	2		●	●	●	●	●	○
0,01 g	3000 kg	**CCS 3T-1L**	**2050,-**	98	1		●	●	●	●	●	○
0,02 g	4 kg	**CDS 4K0.02**	**560,-**	94	1		●		●		●	○
0,02 g	6 kg	**CKE 6K0.02**	**500,-**	92	1		●		●		●	○
0,05 g	8 kg	**CKE 8K0.05**	**460,-**	92	1		●		●		●	○
0,05 g	15 kg	**CDS 15K0.05**	**490,-**	94	1		●		●		●	○
0,05 g	16 kg	**CKE 16K0.05**	**560,-**	92	1		●		●		●	○
0,1 g	6 kg	**CPB 6K0.1N**	**235,-**	90	1		●		●		●	○
0,1 g	6 kg	**CFS 6K0.1**	**270,-**	91	1		●	●	●	●	●	○
0,1 g	15 kg	**CCP 10K-4**	**2900,-**	100	2		●	●	●		●	
0,1 g	16 kg	**CKE 16K0.1**	**460,-**	92	1		●		●		●	○
0,1 g	16 kg	**CDS 16K0.1**	**460,-**	94	1		●		●		●	○
0,1 g	30 kg	**CDS 30K0.1**	**560,-**	94	1		●		●		●	○
0,1 g	30 kg	**CCS 30K0.1.**	**570,-**	98	2		●	●	●	●	●	○
0,1 g	30 kg	**CCP 30K-4**	**3000,-**	100	2		●	●	●		●	
0,1 g	36 kg	**CKE 36K0.1**	**520,-**	92	1		●		●		●	○
0,1 g	36 kg	**FKA 30K-4**	**950,-**	96	1		●	●	●		●	○
0,1 g	60 kg	**CCS 60K0.1.**	**550,-**	98	2		●	●	●	●	●	○
0,1 g	60 kg	**CCP 60K-4**	**2900,-**	100	2		●	●	●		●	
0,1 g	150 kg	**CCS 150K0.1.**	**610,-**	98	2		●	●	●	●	●	○
0,1 g	150 kg	**CCS 150K0.1L**	**850,-**	98	1		●	●	●	●	●	○
0,1 g	300 kg	**CCS 300K0.1**	**850,-**	98	5		●	●	●	●	●	○
0,1 g	600 kg	**CCP 600K-4**	**4200,-**	100	2		●	●	●		●	
0,1 g	1,5 t	**CCS 1T-1**	**1390,-**	98	2		●	●	●	●	●	○
0,1 g	3 t	**CCS 3T-1**	**1950,-**	98	2		●	●	●	●	●	○
0,1 g	3 t	**CCP 3T-7**	**3300,-**	100	4*		●	●	●		●	
0,1 | 0,2 g	6 | 15 kg	**IFS 10K-4**	**400,-**	93	1		●		●		●	○
0,2 g	3 kg	**CXB 3K0.2**	**230,-**	89	1		●				●	●
0,2 g	15 kg	**CPB 15K0.2N**	**235,-**	90	1		●		●		●	○
0,2 g	15 kg	**CFS 15K0.2**	**270,-**	91	1		●	●	●	●	●	○
0,2 g	36 kg	**CDS 36K0.2L**	**690,-**	94	1		●		●		●	○
0,2 g	60 kg	**CDS 60K0.2**	**690,-**	94	1		●		●		●	○
0,2 g	65 kg	**CKE 65K0.2**	**520,-**	92	1		●		●		●	○
0,2 g	65 kg	**FKA 60K-4**	**950,-**	96	1		●	●	●		●	○
0,2 | 0,5 g	12 | 30 kg	**IFS 30K0.2DL**	**430,-**	93	1		●		●		●	○
0,5 g	6 kg	**CXB 6K0.5**	**230,-**	89	1		●				●	●
0,5 g	30 kg	**CPB 30K0.5N**	**235,-**	90	1		●		●		●	○
0,5 g	30 kg	**CFS 30K0.5**	**270,-**	91	1		●	●	●	●	●	○
0,5 g	65 kg	**CKE 65K0.5**	**480,-**	92	1		●		●		●	○
0,5 g	100 kg	**CDS 100K0.5**	**710,-**	94	1		●		●		●	○
0,5 | 1 g	30 | 60 kg	**IFS 60K0.5D**	**430,-**	93	1		●		●		●	○
0,5 | 1 g	30 | 60 kg	**IFS 60K0.5DL**	**520,-**	93	1		●		●		●	○
1 g	3 kg	**CXB 3K1NM**	**245,-**	89	1	○	●				●	●
1 g	15 kg	**CXB 15K1**	**230,-**	89	1		●				●	●
1 g	50 kg	**CFS 50K-3**	**300,-**	91	1		●	●	●	●	●	○
1 | 2 g	3 | 6 kg	**CPB 6K1DM**	**235,-**	90	1	○	●		●		●	○

□ = News 2016

4* = Delivery by truck, please ask for prices

● = Standard

○ = Option

Quick-Finder Counting scales/Counting systems/Special stocktaking scales

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL EXT	MEMORY	RS 232	DUAL	PCS	ACCU
						For an explanation on the pictos, see the front flap						
1 | 2 g	3 | 6 kg	**IFS 6K-3M**	**410,-**	93	1	○	●		●		●	○
1 | 2 g	3 | 6 kg	**IFS 100K-3L**	**750,-**	93	1	○	●		●		●	○
1 | 2 g	75 | 150 kg	**IFS 100K-3**	**610,-**	93	1		●		●		●	○
1 | 2 g	600 kg	**CCP 600K-3**	**3800,-**	100	2		●	●	●		●	
2 g	6 kg	**CXB 6K2NM**	**245,-**	89	1	○	●				●	●
2 g	30 kg	**CXB 30K2**	**230,-**	89	1		●				●	●
2 | 5 g	6 | 15 kg	**CPB 15K2DM**	**235,-**	90	1	○	●		●		●	○
2 | 5 g	6 | 15 kg	**IFS 10K-3M**	**410,-**	93	1	○	●		●		●	○
2 | 5 g	6 | 15 kg	**IFS 10K-3LM**	**460,-**	93	1	○	●		●		●	○
2 | 5 g	150 kg	**CCP 100K-3**	**2600,-**	100	2		●	●	●		●	
2 | 5 g	150 | 300 kg	**IFS 300K-3**	**750,-**	93	1		●		●		●	○
5 g	15 kg	**CXB 15K5NM**	**245,-**	89	1	○	●				●	●
5 | 10 g	15 | 30 kg	**CPB 30K5DM**	**235,-**	90	1	○	●		●		●	○
5 | 10 g	15 | 30 kg	**IFS 30K-3M**	**460,-**	93	1	○	●		●		●	○
10 g	30 kg	**CXB 30K10NM**	**245,-**	89	1	○	●				●	●
10 | 20 g	30 | 60 kg	**IFS 60K-2M**	**460,-**	93	1	○	●		●		●	○
10 | 20 g	30 | 60 kg	**IFS 60K-2LM**	**550,-**	93	1	○	●		●		●	○
20 | 50 g	60 | 150 kg	**IFS 100K-2M**	**550,-**	93	1	○	●		●		●	○
20 | 50 g	60 | 150 kg	**IFS 100K-2LM**	**690,-**	93	1	○	●		●		●	○
50 | 100 g	150 | 300 kg	**IFS 300K-2M**	**690,-**	93	1	○	●		●		●	○

□ = News 2016 4* = Delivery by truck, please ask for prices ● = Standard ○ = Option

Are you looking for higher capacity counting scales?

We have just the right product for you!

All floor scales, pallet scales and drive-through scales from product group 10 (pages 123-139) can be put together to create a high-capacity counting system using the built-in RS-232 or DUAL interface.

Your KERN product specialist for counting scales and counting systems, Mrs Tanja Jetter will be pleased to advise you.

Tanja Jetter
Product specialist Counting scales

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Counting scale KERN CXB

Note: Official verification duty for commercial trade.
The verification only refers to the weight of the counted parts

Entry level model into professional counting, also with EC type approval [M], counting resolution of 30,000 points

Features

- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for
  - Total weight (verifiable)
  - Piece weight
  - Total count
- **Audible Fill-to-target:** target quantity or target weight can be programmed. When the target value is reached, a signal will sound
- **Counting results memory:** adds up all individual piece counts, result is shown in total weight and total pieces
- **Energy management:** Backlight turns off after 5 sec
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key
- **PRE-TARE function** for manual subtraction of a known container weight, value can be saved

Technical data

- Large backlit LCD displays, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxD 300x225 mm
- Dimensions housing WxDxH 300x330x110 mm
- **Rechargeable battery pack internal**, standard, operating time up to 200 h without backlight, charging time approx. 8 h
- Net weight approx. 4 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN CXB-A01S05, **€ 36,-**
- **Rechargeable battery pack internal**, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 40,-**

STANDARD: CAL EXT, PCS, SUM, ACCU, 230 V, DMS, 1 DAY, 2 YEARS WARRANTY
OPTION: DAkkS +3 DAYS
FACTORY: M +3 DAYS (only CXB-NM)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Min. piece weight [Counting] g/piece	Counting resolution Points	**Price** excl. of VAT ex works €	Options Verification KERN	 €	DAkkS Calibr. Certificate KERN	 €
CXB 3K0.2	3	0,2	–	–	0,1	30.000	**230,-**	–	–	963-127	72,-
CXB 6K0.5	6	0,5	–	–	0,2	30.000	**230,-**	–	–	963-128	88,-
CXB 15K1	15	1	–	–	0,5	30.000	**230,-**	–	–	963-128	88,-
CXB 30K2	30	2	–	–	1	30.000	**230,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
CXB 3K1NM	3	1	1	20	0,1	30.000	**245,-**	965-227	55,-	963-127	72,-
CXB 6K2NM	6	2	2	40	0,2	30.000	**245,-**	965-228	55,-	963-128	88,-
CXB 15K5NM	15	5	5	100	0,5	30.000	**245,-**	965-228	55,-	963-128	88,-
CXB 30K10NM	30	10	10	200	1	30.000	**245,-**	965-228	55,-	963-128	88,-

Counting scale KERN CPB

1

Note:
Official verification duty for commercial trade. The verification only refers to the weight of the counted parts

08

Professional model, also with EC type approval [M], counting resolution up to 60,000 points

Features

- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays for**
  - Total weight (verifiable)
  - Piece weight
  - Total count
- **Audible Fill-to-target:** target quantity or target weight can be programmed. When the target value is reached, a signal will sound
- **Counting results memory:** adds up all individual piece counts, result is shown in total weight and total pieces
- **PRE-TARE function** for manual subtraction of a known container weight, value can be saved
- **Energy management:** Backlight turns off after 5 sec
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key

Technical data

- Large backlit LCD displays, digit height 20 mm
- Weighing plate dimensions, stainless steel, WxD 295x225 mm
- Overall dimensions WxDxH 320x350x125 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover**, can be retrofitted, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, can be retrofitted, KERN GAB-A04, **€ 40,-**
- 1 **Signal lamp** for visual support of weighing with tolerance range, for details see page 181, KERN CFS-A03, **€ 250,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, for details see page 181, KERN CFS-A04, **€ 35,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

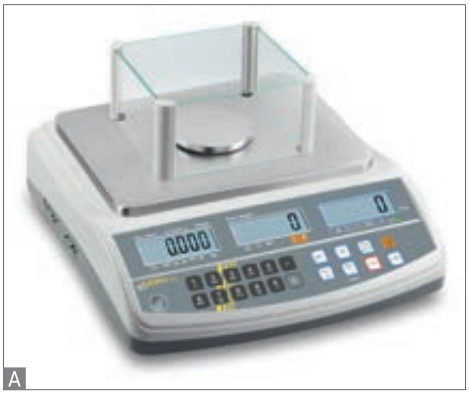
STANDARD: CAL EXT · RS 232 · PCS · SUM · TOL · MULTI · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION: ACCU · DAkkS +3 DAYS

FACTORY: M +3 DAYS (only CPB-DM)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options Verification M III KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
CPB 6K0.1N	6	0,1	–	–	0,1	**235,-**	–	–	963-128	88,-
CPB 15K0.2N	15	0,2	–	–	0,25	**235,-**	–	–	963-128	88,-
CPB 30K0.5N	30	0,5	–	–	0,5	**235,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].										
CPB 6K1DM	3 | 6	1 | 2	1 | 2	20	0,1	**235,-**	965-228	55,-	963-128	88,-
CPB 15K2DM	6 | 15	2 | 5	2 | 5	40	0,25	**235,-**	965-228	55,-	963-128	88,-
CPB 30K5DM	15 | 30	5 | 10	5 | 10	100	0,5	**235,-**	965-228	55,-	963-128	88,-

Counting scale KERN CFS



A

C

Professional, high-resolution counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points

Features

- **Memory (PLU) for 100 items** with additional text, reference weight and tare weight, e.g. of a container
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Weighing with tolerance range (checkweighing)**, ideal for portioning, dispensing, grading, only in weighing and counting mode
- **Fill-to-target function:** Programmable target quantity or target weight. An acoustic and visual signal will be displayed when the target value is reached
- **PRE-TARE function** for manual subtraction of a known container weight, value can be saved
- **Second balance interface** to construct a high-resolution counting system, standard, e.g. with weighing bridges KERN KFP V20 (see page 150)

Technical data

- Large backlit LCD displays, digit height 20 mm
- Weighing plate dimensions, stainless steel,
  A Ø 80 mm
  B WxD 300x225 mm, see enlarged picture
  C WxD 370x240 mm
- Overall dimensions WxDxH
  A 320x350x180 mm (incl. draught shield),
  B 320x340x130 mm
  C 370x375x130 mm
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing standard, only for models with weighing plate size B. Can be re-ordered, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 70 h without backlight, charging time approx. 14 h, can be retrofitted, KERN GAB-A04, **€ 40,-**
- **Signal lamp** for visual support of weighing with tolerance range, WxDxH 100x180x300 mm, KERN CFS-A03, **€ 250,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

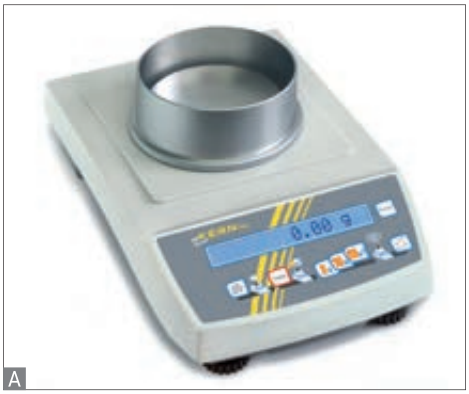
CAL EXT · MEMORY · RS 232 · DUAL · PCS · TOL · MULTI · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION

ACCU · DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €
CFS 300-3	0,3	0,001	0,005	2,5	A	**350,-**	963-127	72,-
CFS 3K-5	3	0,01	0,05	3,3	B	**300,-**	963-127	72,-
CFS 6K0.1	6	0,1	0,1	3,3	B	**270,-**	963-128	88,-
CFS 15K0.2	15	0,2	0,2	3,3	B	**270,-**	963-128	88,-
CFS 30K0.5	30	0,5	0,5	3,3	B	**270,-**	963-128	88,-
CFS 50K-3	50	1	1	4,4	C	**300,-**	963-128	88,-

Counting scale KERN CKE


A

B

Easy to use, self-explanatory counting scale with laboratory accuracy, counting resolution up to 360,000 points

08

Features

- **Self-explanatory graphic control panel**, counting process can be understood immediately, even without operating instructions.
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors avoids
- The 4 steps are carried out from left to right:
  1 Place the empty container onto the weighing plate and tare by pressing the TARE key
  2 Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
  3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
  4 Pour in the goods to be counted.
  The number of pieces will immediately be shown in the display
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Two scales in one:** Switching from counting mode to weighing mode at the touch of a key

Technical data

- Large backlit LCD display
  A, B digit height 9 mm, C digit height 18 mm
- Weighing plate dimensions, stainless steel*
  A Ø 81 mm, B WxD 150x170 mm*
  C WxD 340x240 mm*, see enlarged picture
- Overall dimensions WxDxH
  A, B 167x250x85 mm, C 350x390x120 mm
- Optional battery operation for models with weighing plate size C, batteries 6 x 1.5 V Size C not standard, operating time up to 40 h
- Net weight for models with weighing plate size
  A approx. 1 kg
  B approx. 1,8 kg
  C approx. 6,5 kg
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing standard. Can be re-ordered, scope of delivery: 5 items, for models with weighing plate size
  A KERN PCB-A02S05, **€ 30,-**
  B KERN PCB-A05S05, **€ 30,-**
  C KERN FKB-A02S05, **€ 30,-**
- **Rechargeable battery pack external**, operating time up to 25 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Rechargeable battery pack internal** only for models with weighing plate size A and B, operating time up to 25 hours with backlight, charging time approx. 10 h, can be retrofitted, KERN KB-A01N, **€ 50,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	Counting resolution Points	Weighing plate	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €
CKE 360-3	0,36	0,001	0,001	360000	A	**310,-**	963-127	72,-
CKE 2000-2	2	0,01	0,01	200000	B	**350,-**	963-127	72,-
CKE 3600-2	3,6	0,01	0,01	360000	B	**370,-**	963-127	72,-
CKE 6K0.02	6	0,02	0,02	300000	C	**500,-**	963-128	88,-
CKE 8K0.05	8	0,05	0,05	160000	C	**460,-**	963-128	88,-
CKE 16K0.05	16	0,05	0,05	320000	C	**560,-**	963-128	88,-
CKE 16K0.1	16	0,1	0,1	160000	C	**460,-**	963-128	88,-
CKE 36K0.1	36	0,1	0,1	360000	C	**520,-**	963-128	88,-
CKE 65K0.2	65	0,2	0,2	325000	C	**520,-**	963-129	105,-
CKE 65K0.5	65	0,5	0,5	130000	C	**480,-**	963-129	105,-

Counting scale KERN IFS

1

Note:
Official verification duty for commercial trade. The verification only refers to the weight of the counted parts

Industrial counting scale with convenient decimal keypad for easy data entry - now also with EC type approval [M], counting resolution up to 75000 points

Features

- **Industrial quality:** heavy version for tough usage in industrial applications
- **Ergonomic display device** with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc., for details see page 147, KERN KFS-TM
- **99 item memories** for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- **Precise counting:** The manual reference weight optimisation gradually improves the average value of the piece weight
- **Totalising** of pieces when counting

Technical data

- Large backlit LCD displays, digit height 16 mm
- Dimensions of display device WxDxH 260x150x65 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN KFB-A02S05, **€ 35,-**
- 1 **Stand** to elevate display device, height of stand approx. 330 mm, KERN IFB-A01, **€ 50,-**
  height of stand approx. 600 mm, for models with weighing plate size ≥ 500x400x137 mm, KERN IFB-A02, **€ 60,-**
- **Rechargeable battery pack internal**, operating time up to 40 h, charging time approx. 12 h, must be ordered at purchase, KERN KFS-A01, **€ 35,-**
- **Suitable printers** see page 177 ff.

STANDARD: CAL EXT · MEMORY (only IFS-M) · RS 232 (only IFS-M) · GLP INTERN · PCS · SUM · PERCENT · TOL · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: ACCU · M +3 DAYS (only IFS-M)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Min. piece weight [Counting] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate WxDxH mm	Price excl. of VAT ex works €	Options: Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].												
IFS 10K-4	6 | 15	0,1 | 0,2		0,2	75.000	6,5	300x240x110	**400,-**	–	–	963-128	88,-
IFS 30K0.2DL	12 | 30	0,2 | 0,5		0,5	60.000	10	400x300x128	**430,-**	–	–	963-128	88,-
IFS 60K0.5D	30 | 60	0,5 | 1		1	60.000	10	400x300x128	**430,-**	–	–	963-129	105,-
IFS 60K0.5DL	30 | 60	0,5 | 1		1	60.000	16	500x400x137	**520,-**	–	–	963-129	105,-
IFS 100K-3	75 | 150	1 | 2		2,5	60.000	16	500x400x137	**610,-**	–	–	963-129	105,-
IFS 100K-3L	75 | 150	1 | 2		2,5	60.000	24	650x500x142	**750,-**	–	–	963-129	105,-
IFS 300K-3	150 | 300	2 | 5		5	60.000	24	650x500x142	**750,-**	–	–	963-129	105,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
IFS 6K-3M	3 | 6	1 | 2	1 | 2	0,1	60.000	6,5	300x240x110	**410,-**	965-228	55,-	963-128	88,-
IFS 10K-3M	6 | 15	2 | 5	2 | 5	0,2	75.000	6,5	300x240x110	**410,-**	965-228	55,-	963-128	88,-
IFS 10K-3LM	6 | 15	2 | 5	2 | 5	0,2	75.000	10	400x300x128	**460,-**	965-228	55,-	963-128	88,-
IFS 30K-3M	15 | 30	5 | 10	5 | 10	0,5	60.000	10	400x300x128	**460,-**	965-228	55,-	963-128	88,-
IFS 60K-2M	30 | 60	10 | 20	10 | 20	1	60.000	10	400x300x128	**460,-**	965-229	93,-	963-129	105,-
IFS 60K-2LM	30 | 60	10 | 20	10 | 20	1	60.000	16	500x400x137	**550,-**	965-229	93,-	963-129	105,-
IFS 100K-2M	60 | 150	20 | 50	20 | 50	2,5	60.000	16	500x400x137	**550,-**	965-229	93,-	963-129	105,-
IFS 100K-2LM	60 | 150	20 | 50	20 | 50	2,5	60.000	24	650x500x142	**690,-**	965-229	93,-	963-129	105,-
IFS 300K-2M	150 | 300	50 | 100	50 | 100	5	60.000	24	650x500x142	**690,-**	965-229	93,-	963-129	105,-

Counting scale KERN CDS

08

Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points

Features

- **Self-explanatory graphic control panel**. The counting process can be understood immediately even without operating instructions
  - No learning time = reduces costs
  - Ideal for untrained users
  - Visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  1 Place the empty container onto the weighing plate and tare by pressing the TARE key
  2 Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
  3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
  4 Pour in the goods to be counted.

The number of pieces will immediately be shown in the display

- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value

Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxDxH
  A 228x228x90 mm
  B 308x318x75 mm
  C 450x350x115 mm
- Dimensions of display device WxDxH 225x115x60 mm
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over the display device, standard. Can be re-ordered, scope of delivery: 5 items, KERN DE-A12S05, **€ 30,-**
- **Wall mount** for display device, KERN DS-A02, **€ 30,-**
- **Mount** to fasten the display device to the platform, KERN DE-A11N, **€ 35,-**
- 5 **Stand** to elevate display device, height of stand approx. 480 mm, KERN DE-A10, **€ 95,-**
- **Rechargeable battery pack external**, operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Rechargeable battery pack internal**, operating time up to 15 hours with backlight, charging time approx. 10 h, can be retrofitted, KERN KB-A01N, **€ 50,-**
- **Set for suspended weighing**, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01, **€ 200,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

OPTION

only B

Model KERN	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	Counting resolution Points	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	Option DAkkS Calibr. Certificate €
CDS 4K0.02	4	0,02	0,02	200.000	5,1	2	A	**560,-**	963-127	72,-
CDS 15K0.05	15	0,05	0,05	300.000	7,5	2	B	**490,-**	963-128	88,-
CDS 16K0.1	16	0,1	0,1	160.000	7,5	2	B	**460,-**	963-128	88,-
CDS 30K0.1	30	0,1	0,1	300.000	7,5	2	B	**560,-**	963-128	88,-
CDS 30K0.1L	30	0,1	0,1	300.000	9,5	0,6	C	**690,-**	963-128	88,-
CDS 36K0.2L	36	0,2	0,2	180.000	9,5	0,6	C	**690,-**	963-128	88,-
CDS 60K0.2	60	0,2	0,2	300.000	9,5	0,6	C	**690,-**	963-129	105,-
CDS 100K0.5	100	0,5	0,5	200.000	9,5	0,6	C	**710,-**	963-129	105,-

KERN
Stocktaking scales

Stocktaking in an instant

Save valuable time and money with application oriented balance-PC systems for rapid and reliable recording of stock levels. From the simple determination of weights in day-to-day operations, through its beneficial use as a checkweigher in Goods Inwards or picking small parts, to professional recording of your entire stock levels within the scope of a regular inventory – with the **KERN inventory system** you are always in safe hands.

KERN FKA and FKC – 2 trusty helpers

» Barcode scanner can be connected for rapid item recognition

» Easy selection of archived items using the practical search function

» Rapid data transfer, e.g. excel stock lists from PC to the balance or recorded stock levels from the balance to the PC

» It is possible to print out individual item stocks immediately using a printer

» Up to 16 individual receipt print outs (also with company address) can be easily designed on the PC or the balance and archived in the balance

» Used as a counting system the KERN FKC can achieve counting resolutions of up to 5 million parts with a high degree of accuracy

» An inventory system which can be used in any location, and is easy to transport thanks to its compact dimensions and operation on battery or rechargeable battery

Your benefit

- Thanks to the stored item data, such as item name, piece weight, reference quantity, tare values of the packaging or storage boxes etc. this information does not to be recorded during the stocktake. That is a huge time saver
- There is no need for a separate stock list in paper form – which prevents information being entered wro
- When using a barcode scanner, the sources of error in confusion of items is practically eliminated – which ensures process reliability and accurate inventory data
- The recorded item stock can be printed out immediately and then put in the storage box or stuck on using the label printer – item specific with user, item description, date, time and quantity
- Items which are not in the database can easily be recorded on the balance and be transferred onto the stock list – which means the maximum flexibility when stocktaking
- For archived items, daily totals can be determined and transferred to the PC – in this way you are kept informed of the progress of the inventory at all times
- When using the KERN FKC counting system you can achieve extremely high counting resolutions of up to 5 million parts with a high degree of accuracy – which means that inventory data is accurate in just one work process and therefore save a lot of time

Stocktake scale KERN FKA

*See for yourself just how easy **Goods Inwards** can be, with KERN ...*

1

Stocktake scale with touchscreen to quickly measure the quantity of stock items and transfer the information to the PC

08

Features

- Application-orientated balance-PC system for rapid and reliable recording of stock levels, e.g. as part of a stocktake or goods inwards control
- 1 **Using the software included as standard**, an excel list produced by a PC with stocktake items can be transferred to the balance. In the warehouse, stocktake items can then be weighed, counted and stored by the balance, while still in their containers. In doing this, the stored container weight will be subtracted automatically. After the stocktake, the stock level will then be transferred back to the PC and can then be processed further as an excel table. In this way the amount of work and input at the balance is kept to a minimum and time efficiency is maximised = saves costs
- **High Flexibility:** During stocktaking, stored PRE-TARE can be corrected immediately on the scale. Items which have not yet been recorded can easily entered using the scale and then transferred in the stock level list
- **1000 item memories** for master data, such as item number, PRE-TARE (container weight), reference quantity, refere, weight etc.
- During stocktaking it is possible to print individual items recorded
- Barcode scanner can be connected for rapid item recognition, with no confusion

Technical data

- Backlit and touch-sensitive LCD display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Dimensions housing WxDxH 350x390x120 mm
- Optional battery operation, 6 x 1.5 V Size C not included, operating time up to 15 h
- Net weight approx. 6,5 kg
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN FKB-A02S05, **€ 30,-**
- **Rechargeable battery pack external**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Barcode scanner**, table-top version, dimensions WxDxH 230x150x135 mm, KERN SMT-A02, **€ 685,-**
- **Barcode scanner**, hand-held version, dimensions WxDxH 235x210x115 mm, KERN SMT-A03, **€ 445,-**
- **Radio barcode scanner**, hand-held version, dimensions WxDxH 225x220x110 mm, KERN SMT-A04, **€ 495,-**
- **Converter cable (RS-232 to USB)**, KERN AFH 12, **€ 85,-**
- **Y-cable**, KERN FKA-A01, **€ 46,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL EXT · MEMORY · RS 232 · PCS · UNIT · UNDER · BATT · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION

ACCU · DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	Weighing plate WxD mm	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	€
FKA 30K-4	36	0,1	0,1	340x240	**950,-** ↓	963-128	88,-
FKA 60K-4	65	0,2	0,2	340x240	**950,-**	963-129	105,-

↓ Price reduction

Stocktake scale KERN FKC

Quantity scale KERN FKA

Reference scale KERN KB-N

SCAN ME!

*You will be impressed with how easy **stocktaking** is now, with KERN ...*

1

Stocktaking scale with touchscreen to quickly measure the quantity of stock items and information to the PC

08

Features

- **Counting with a reference balance for high counting accuracy:** the highly accurate KERN FKC counting system can replace a whole range of individual balances, efficiently and at a reasonable price.
- The counting system consists of an FKA bulk scale FKA (see p. 96 for details) and a KB-N reference balance KB-N (details see page 25) as well as an interface cable
- Application-orientated balance-PC system for rapid and reliable recording of stock levels, e.g. as part of a stocktake or goods inwards control
- **Item recognition using the optional bar-code scanner is possible**, see accessories
- 1 **Individual printout templates** can be stored for Weighing Mode and Counting Mode. Can be edited directly at the balance or at the PC
- **Note:** As well as stocktaking, the balance can be used in many other applications, e.g. as a weighing scale, commissioning balance or as a professional counting scale with item memory for up to 500 items and associated daily totals memory for each item.

Technical data

Reference scale KB:

- Backlit LCD display, digit height 9 mm
- Weighing plate dimensions, stainless steel, Ø/WxD
  KB 120-3N: Ø 81 mm
  KB 1200-2N: 130x130 mm
- Dimensions housing WxDxH 167x250x85 mm
- Permissible ambient temperature 10 °C / 40 °C

Quantity scale FKA:

- Backlit and touch-sensitive LCD display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Dimensions housing WxDxH 350x390x120 mm
- Optional battery operation, 6 x 1.5 V Size C not included, operating time up to 15 h
- Permissible ambient temperature 10 °C / 40 °C

Accessories

Reference scale KB-N:

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, **€ 30,-**
  KB 120-3N: KERN PCB-A02S05
  KB 1200-2N: KERN PCB-A04S05
- **Rechargeable battery pack external**, operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**

Reference scale FKA:

- **Barcode scanner**, table-top version, dimensions WxDxH 230x150x135 mm, KERN SMT-A02, **€ 685,-**
- **Barcode scanner**, hand-held version, dimensions WxDxH 235x210x115 mm, KERN SMT-A03, **€ 445,-**
- **Radio barcode scanner**, hand-held version, dimensions WxDxH 225x220x110 mm, KERN SMT-A04, **€ 495,-**
- Further accessory see page 96

STANDARD: CAL EXT · MEMORY · RS 232 · GLP PRINTER (only KB-N) · PCS · RECIPE (only KB-N) · PERCENT (only KB-N) · UNIT · UNDER · BATT (only FKA) · MULTI · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION: ACCU (only KB-N) · DAkkS +3 DAYS

Model KERN	Quantity scale FKA	Weighing range [Max] kg	Readout [d] g	Weighing plate WxD mm	Reference scale KB-N	Weighing range [Max] g	Readout [d] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	€
FKC 30K-6	**FKA 30K-4**	36	0,1	340 x 240	**KB 120-3N**	120	0,001	0,001	**1280,-**	962-128-127	145,-
FKC 30K-5	**FKA 30K-4**	36	0,1	340 x 240	**KB 1200-2N**	1200	0,01	0,01	**1260,-**	962-128-127	145,-
FKC 60K-6	**FKA 60K-4**	65	0,2	340 x 240	**KB 120-3N**	120	0,001	0,001	**1280,-**	962-129-127	160,-
FKC 60K-5	**FKA 60K-4**	65	0,2	340 x 240	**KB 1200-2N**	1200	0,01	0,01	**1260,-**	962-129-127	160,-

Quantity scale KERN KFP

Reference scale KERN CFS

Counting system to count the smallest parts in the largest quantities, counting resolution up to 999,999 points

Features

- **This highly accurate counting system** KERN CCS can replace a whole range of individual counting scales, efficiently and at a reasonable price

Reference scale KERN CFS:

- This professional KERN CFS counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing range and volume of items, by beeing connected to a high-capacity weighing bridge
- **Programmable using numerical key pad**:
  - required reference quantity
  - known reference weight
- **Memory (→PLU) for 100 items** with additional text
- **Fill-to-target function:** Programmable target weight. An acoustic and visual signal will be displayed when the target value is reached
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- For additional details on the KERN CFS reference scale, see page 91

Quantity scale KERN KFP:

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN KFP
- **Stainless steel weighing plate**, painted steel base with A - E
- **Aluminium singlepoint load cell** (1 x 3000 e), protection against dust and water splashes IP65
- For additional details on the KERN KFP quantity scale, see page 150

Counting system KERN CCS

1

2

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Technical data

CFS:

- Large backlit LCD displays, digit height 20 mm
- Overall dimensions WxDxH 320x350x125 mm
- Weighing plate dimensions, stainless steel
  1 CFS 300-3 Ø 80 mm
  CFS 3K-5, CFS 6K0.1 WxD 294x225 mm
- Net weight approx. 3,3 kg

KFP/KFU:

- Weighing plate dimensions, stainless steel, WxDxH
  A 230x230x110 mm
  B 300x240x110 mm
  C 400x300x128 mm
  D 500x400x137 mm
  E 650x500x142 mm
  F 1000x1000x80 mm
  G 1500x1250x80 mm
  H 1500x1500x80 mm
  I 842x1300x90 mm
- Connection cable
  A - E approx. 2,5 m
  F - I approx. 5 m

Accessories

- **Reference scale** also available separately, for details, see page 91,
  KERN CFS 300-3, **€ 350,-**
  KERN CFS 3K-5, **€ 300,-**
  KERN CFS 6K0.1, **€ 270,-**
- **Protective working cover** over keyboard and housing standard. Can be re-ordered, scope of delivery: 5 items, for models with weighing plate size WxD 300x225 mm, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 70 h without backlight, charging time approx. 14 h, not for models CFS 300-3, KERN GAB-A04, **€ 40,-**

! Information on other high-capacity bulk balances, such as, for example, pallet scales, drive-through scales or floor scales is available on request, for information on other counting systems with the KERN CFS reference balance (d = 0.1 g), please refer to the website

- 2 **Signal lamp** for visual support of weighing with tolerance range. Three-colour LED (yellow, green, red). Overall dimensions WxDxH 100x180x300 mm, for details, see page 181, KERN CFS-A03, **€ 250,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, for details, see page 181, KERN CFS-A04, **€ 35,-**
- **Suitable printers** and further, extensive accessories from page 177

08

STANDARD

CAL EXT · MEMORY · RS 232 · DUAL · PCS · SUM · TOL · MULTI · DMS · 4 DAY · 5 DAYS (with [Max] ≥ 600 kg) · 3 YEARS WARRANTY

OPTION

ACCU · DAkkS +3 DAYS

Model KERN	Quantity scale KFP	Weighing range [Max] kg	Readout [d] g	Weighing plate	Reference scale CFS	Weighing range [Max] g	Readout [d] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	 €
CCS 6K-6	**KFP 6V20M**	6	2	A	**CFS 300-3**	300	0,001	0,005	**670,-**	962-128-127	145,-
CCS 10K-6	**KFP 15V20M**	15	5	B	**CFS 300-3**	300	0,001	0,005	**710,-**	962-128-127	145,-
CCS 30K0.01.	**KFP 30V20M**	30	10	C	**CFS 3K-5**	3000	0,01	0,05	**580,-**	962-128-127	145,-
CCS 30K0.1.	**KFP 30V20M**	30	10	C	**CFS 6K0.1**	6000	0,1	0,1	**570,-**	962-128-128	175,-
CCS 60K0.01.	**KFP 60V20M**	60	20	C	**CFS 3K-5**	3000	0,01	0,05	**580,-**	962-129-127	160,-
CCS 60K0.01L.	**KFP 60V20LM**	60	20	D	**CFS 3K-5**	3000	0,01	0,05	**660,-**	962-129-127	160,-
CCS 60K0.1.	**KFP 60V20M**	60	20	C	**CFS 6K0.1**	6000	0,1	0,1	**550,-**	962-129-128	175,-
CCS 60K0.1L.	**KFP 60V20LM**	60	20	D	**CFS 6K0.1**	6000	0,1	0,1	**610,-**	962-129-128	175,-
CCS 150K0.01	**KFP 150V20M**	150	50	D	**CFS 3K-5**	3000	0,01	0,05	**660,-**	962-129-127	160,-
CCS 150K0.01L	**KFP 150V20LM**	150	50	E	**CFS 3K-5**	3000	0,01	0,05	**890,-**	962-129-127	160,-
CCS 150K0.1.	**KFP 150V20M**	150	50	D	**CFS 6K0.1**	6000	0,1	0,1	**610,-**	962-129-128	175,-
CCS 150K0.1L	**KFP 150V20LM**	150	50	E	**CFS 6K0.1**	6000	0,1	0,1	**850,-**	962-129-128	175,-
CCS 300K0.1	**KFP 300V20M**	300	100	E	**CFS 6K0.1**	6000	0,1	0,1	**850,-**	962-129-128	175,-
CCS 300K0.01	**KFP 300V20M**	300	100	E	**CFS 3K-5**	3000	0,01	0,05	**890,-**	962-129-127	160,-
CCS 600K-2	**KFP 600V20SM**	600	200	F	**CFS 3K-5**	3000	0,01	0,05	**1450,-**	962-130-127	237,-
CCS 600K-2L	**KFP 600V20M**	600	200	G	**CFS 3K-5**	3000	0,01	0,05	**1850,-**	962-130-127	237,-
CCS 600K-2U	**KFU 600V20M**	600	200	I	**CFS 3K-5**	3000	0,01	0,05	**1350,-**	962-130-127	237,-
CCS 1T-1	**KFP 1500V20SM**	1500	500	F	**CFS 6K0.1**	6000	0,1	0,1	**1390,-**	962-130-128	253,-
CCS 1T-1L	**KFP 1500V20M**	1500	500	G	**CFS 6K0.1**	6000	0,1	0,1	**1890,-**	962-130-128	253,-
CCS 1T-1U	**KFU 1500V20M**	1500	500	I	**CFS 6K0.1**	6000	0,1	0,1	**1290,-**	962-130-128	253,-
CCS 3T-1	**KFP 3000V20M**	3000	1000	G	**CFS 6K0.1**	6000	0,1	0,1	**1950,-**	962-132-128	528,-
CCS 3T-1L	**KFP 3000V20LM**	3000	1000	H	**CFS 6K0.1**	3000	0,01	0,1	**2050,-**	962-132-128	528,-

NEW

PREMIUM ★★★

08

Quantity scale KERN KXP

Reference scale KERN ILT

Premium counting system for high-capacity counting applications with the highest level of accuracy, counting resolution up to 6 million points

Easy entering of item data using the connected barcode or RFID scanner

High level of connectivity

- 1 x Ethernet
- 2 x RS-232
- 2 x USB e.g. for data exchange or connecting barcode or RFID scanners
- 1 x WLAN
- Digital I/O (4 in/4 out) e.g. to control machines and plants
- 1 x Interface for additional display

On the basis of the KERN ILT reference balance, you can put together a wide range of high-performance counting systems, for example, with an additional bulk balance, to cover more weighing ranges - your KERN product specialist will be pleased to advise you

Premium counting system KERN CCP

Features

- **This highly accurate counting system** KERN CCP can replace a whole range of individual counting scales, efficiently and at a reasonable price
- **High level of connectivity:** Thanks to a range of integrated interfaces
- **Alibi memory:** Electronic archiving of weighing results, see also page 214
- **Data interface USB** for transferring weighing data to the PC, printer, USB sticks etc.
- **User-friendly batch management**
- **Individual print formats**

Reference scale KERN ILT:

- The counting system is operated using the KERN ILT touchscreen reference balance and offers the full range of functions for demanding counting applications
- This professional touchscreen platform scale KERN ILT which can also be used as a stand-alone scale, meets even the highest demands for accuracy, weighing range and volume of items (up to 6 millions items)
- **Intuitive operation using the touch display** increases efficiency and saves costs
- **Creation and recall items to be counted from the database (8 GB)** with all relevant additional data such as piece weight, name, price (for internal valuation), reference quantity, tare container weight, barcode, item image etc.
- **Fill-to-target function:** Programmable target weight. A visual signal will be displayed when the target value is reached
- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight
- For additional details on the KERN ILT reference scale, see page 120/121

Quantity scale KERN KXP/KFP:

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN KXP/KFP. In this way even the smallest of parts can be counted in large volumes
- 1 **Stainless steel weighing plate,** painted steel base, extremely resistant to bending, wing design, aluminium singlepoint load cell, 3000 e, protection against dust and water splashes IP65
- 2 **KFP only:** Weighing bridge painted steel, extremely resistant to bending due to material thickness, four load cells, steel, 3000 e, dust and spray protection IP67
- For additional details on the KERN KXP quantity scale, see page 150, KERN KFP, see page 151

Technical data

ILT:

- **Backlit and touch-sensitive LCD display** with digit height 21 mm, screen diagonal 5,7" (approx. 145 mm)
- Weighing plate dimensions, stainless steel, WxDxH
  ILT 6K-4BAM: 195x195 mm
  ILT 6K-3GAM: 230x230 mm
  ILT 10K-3GAM: 300x240 mm
- Connection cable approx. 3 m
- Permissible ambient temperature 15 °C / 35 °C

KXP V20 IP65/KFP V20 IP65:

- Weighing plate dimensions, WxDxH
  A 300x240 mm, stainless steel
  B 400x3000 mm, stainless steel
  C 500x400 mm, stainless steel
  D 1500x1250 mm, steel, lacquered
  E 1500x1500 mm, steel, lacquered
- Permissible ambient temperature -10 °C / 40 °C

Accessoires

ILT:

- **Transponder card reader,** for additional details, see page 186, KERN KET-A05, **€ 450,-**
- **Transponder card,** for additional details, see page 186, KERN KET-A08, **€ 65,-**
- **RS-232 barcode scanner,** for additional details, see page 184, KERN PET-A05, **€ 350,-**
- **USB barcode scanner,** for additional details, see page 184, KERN PET-A09, **€ 350,-**
- **Wall mount** for display device, for additional details, see page 186, KERN KET-A02, **€ 190,-**
- **Second display,** for additional details, see page 185, KERN KET-A03, **€ 210,-**
- **Large display,** for additional details, see page 185, KERN KET-A06, **€ 1450,-**
- **Direct thermal label printer,** for additional details, see page 184, KERN PET-A13, **€ 980,-**
- **Thermal transfer and direct thermal label printer,** for additional details, see page 184, KERN PET-A14, **€ 1000,-**
- **Software for database management,** for additional details, see page 184, KERN KET-A04, **€ 300,-**
- **Suitable printers** and further, extensive accessories from page 177

08

STANDARD

STANDARD

≥ [Max] 600 kg

OPTION

Model KERN	Quantity scale KXP/KFP	Weighing range [Max] kg	Weighing plate	Reference scale ILT	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	Option DAkkS Calibr. Certificate DKD €
CCP 10K-4	**KXP 15V20M**	15	A	**ILT 6K-4BAM**	6	0,1	0,1	**2900,-**	962-128-128	175,-
CCP 30K-4	**KXP 30V20M**	30	B	**ILT 6K-4BAM**	6	0,1	0,1	**3000,-**	962-128-128	175,-
CCP 60K-4	**KXP 60V20M**	60	B	**ILT 6K-4BAM**	6	0,1	0,1	**2900,-**	962-129-128	175,-
CCP 60K-4L	**KXP 60V20LM**	60	C	**ILT 6K-4BAM**	6	0,1	0,1	**3000,-**	962-129-128	175,-
CCP 100K-3	**KXP 150V20M**	150	C	**ILT 10K-3GAM**	6 | 15	2 | 5	0,1	**2600,-**	962-129-128	175,-
CCP 600K-4	**KXP 600V20M**	600	D	**ILT 6K-4BAM**	6	0,1	0,1	**4200,-**	962-130-128	253,-
CCP 600K-3	**KXP 600V20M**	600	D	**ILT 6K-3GAM**	3 | 6	1 | 2	0,1	**3800,-**	962-130-128	253,-
CCP 3T-7	**KXP 3000V20M**	3000	D	**ILT 6K-4BAM**	6	0,1	1	**3300,-**	962-132-128	528,-
CCP 3T-7L	**KFP 3000V20LM**	3000	E	**ILT 6K-4BAM**	6	0,1	2	**3300,-**	962-132-128	528,-

Reference scale KERN PLJ-C

Quantity scale KERN ILT

Premium counting system with EC type approval [M], for complex counting applications with the highest level of accuracy, counting resolution up to 6 million points

Features

- **This highly accurate counting system** KERN CCT can replace a whole range of individual counting scales, efficiently and at a reasonable price
- Thanks to **EC type approval [M]** this counting system can also be used in verified applications, e.g. for order picking packaged items, etc.
- **Alibi Memory:** Paperless archiving of up to 100,000 weighing results For weighings where verification is mandatory, and which are to be analysed and processed by a PC, the legislative body requires electronic archiving using a verifiable, non-manipulatable data memory
- **High level of connectivity:** Thanks to a range of integrated interfaces
- **Data interface USB**: for transferring weighing data to the PC, printer, USB sticks etc.
- **Individual print formats:** Printouts can be individually adjusted depending on operating mode, application or your own requirements, directly at the balance or the PC

Reference scale KERN PLJ-C/AEJ-C:

- The highly accurate reference balances KERN PLJ-C and AEJ-C determine the piece weight of items to be counted with the highest level of precision
- These precision balances, which can also be used as individual balances, can fulfil even the highest level of requirements for accuracy, weighing range and volume of items (up to 6 million items) through connection to a high-capacity platform scale
- **Automatic internal adjustment** in the case of a change in temperature ≥ 3 °C or time-controlled every 3 hours, guarantees high degree of accuracy
- **Internal memory** for up to 999 weighing results, 1000 items, 100 container weights, 100 users
- For additional details on the KERN PLJ-C reference scale, see page 33, KERN AEJ-CM, see page 48

Premium counting system KERN CCT

Quantity scale KERN ILT:

- The high-accuracy quantity counting takes place on the platform scale KERN ILT
- The counting system is operated using the premium display device of the KERN ILT bulk balance and offers the full range of functions for demanding counting applications
- **Intuitive operation using the touch display** increases efficiency and saves costs
- **Creation and recall items to be counted from the database (8 GB)** with all relevant additional data such as piece weight, name, price (for internal valuation), reference quantity, tare container weight, barcode, item image etc.
- **User-friendly batch management**
- **Fill-to-target function:** Programmable target weight. An acoustic and visual signal will be displayed when the target value is reached
- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight
- Thanks to its wide range of functions and large database, this touchscreen platform scale, which can also be used as individual scale, is particularly suitable for complex recipe or checkweighing applications, as well as classic counting and weighing applications
- For additional details on the KERN ILT quantity scale, see page 120/121

Technical data

PLJ-C:

- Backlit LCD display, digit height, 17 mm
- Weighing plate dimensions, stainless steel, WxD
  PLJ 300-3CM, PLJ 600-3CM: 128x128 mm
  PLJ 3000-2CM: 195x195 mm
- Connection cable approx. 15 m
- Total dimensions, WxDxH
  without draft shield 206x332x88 mm,
  draft shield incl. 206x332x170 mm
- Net weight approx. 3,6 kg
  (draft shield incl. approx. 4,7 kg)
- Permissible ambient temperature
  15 °C/30 °C

AEJ-C:

- Backlit LCD display, digit height, 17 mm
- Weighing plate dimensions Ø 85 mm
- Total dimensions, WxDxH
  206x335x335 mm
- Net weight approx. 5 kg
- Permissible ambient temperature
  18 °C / 30 °C

ILT:

- Weighing plate dimensions, stainless steel, WxD
  A 195x195 mm
  B 300x240 mm
  C 400x300 mm
  D 500x400 mm
- Connection cable approx. 1,5 m
- Permissible ambient temperature
  15 °C / 35 °C

Accessoires

PLJ-C:

- **WLAN interface** for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops or Smartphones, can not be reordered, please ask for delivery time, KERN PLJ-A06, **€ 135,-**

ILT:

- **Transponder card reader,** for additional details, see page 186, KERN KET-A05, **€ 450,-**
- **Transponder card,** for additional details, see page 186, KERN KET-A08, **€ 65,-**
- **RS-232 barcode scanner,** for additional details, see page 184, KERN PET-A05, **€ 350,-**
- **USB barcode scanner,** for additional details, see page 184, KERN PET-A09, **€ 350,-**
- **USB keyboard,** for additional details, see page 185, KERN PET-A06, **€ 45,-**
- **Wall mount** for display device, for additional details, see page 186, KERN KET-A02, **€ 190,-**
- **Second display,** for additional details, see page 185, KERN KET-A03, **€ 210,-**
- **Large display,** for additional details, see page 185, KERN KET-A06, **€ 1450,-**
- **Analogue/Digital converter,** for additional details, see page 186, KERN KET-A01, **€ 350,-**
- **Direct thermal label printer,** for additional details, see page 184, KERN PET-A13, **€ 980,-**
- **Thermal transfer and direct thermal label printer,** for additional details, see page 184, KERN PET-A14, **€ 1000,-**
- **Software for database management,** for additional details, see page 184, KERN KET-A04, **€ 300,-**
- **PLJ-C only: Software for reading from the alibi memory in KERN balances,** for additional details, see page 179, KERN PET-A16, **€ 300,-**
- **Suitable printers** and further, extensive accessories from page 177

STANDARD

CAL EXT · MEMORY · ALIBI · RS 232 · USB · WLAN · SWITCH · LAN · PCS · SUM · PERCENT · UNIT · TOL · MOVE · MULTI · DMS (ILT) · FORCE (AEJ, PLJ) · 23 DAYS · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

FACTORY

M +3 DAYS

Model KERN	Quantity scale ILT	Weighing range [Max] kg	Weighing plate	Reference scale PLJ/AEJ	Weighing range [Max] g	Readout [d] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options: Verification KERN	Verification €	DAkkS Calibr. Certif. KERN	DAkkS Calibr. Certif. €
CCT 6K-6	ILT 6K-4BAM	6	A	PLJ 300-3CM	360	0,001	0,001	4100,-	965-217-216	143,-	962-128-127	145,-
CCT 10K-6	ILT 10K-3GAM	6 | 15	B	PLJ 300-3CM	360	0,001	0,001	2700,-	965-228-216	121,-	962-128-127	145,-
CCT 10K-7	ILT 10K-3GAM	6 | 15	B	AEJ 200-4CM	220	0,0001	0,0001	3100,-	965-228-201	165,-	962-128-101	226,-
CCT 30K-5	ILT 30K-2GAM	15 | 30	C	PLJ 3000-2CM	3500	0,01	0,01	2800,-	965-228-216	121,-	962-128-127	145,-
CCT 60K-6	ILT 60K-2GAM	30 | 60	C	PLJ 600-3CM	600	0,001	0,001	2800,-	965-229-216	159,-	962-129-127	160,-
CCT 60K-5	ILT 60K-2GAM	30 | 60	C	PLJ 3000-2CM	3500	0,01	0,01	2800,-	965-229-216	159,-	962-129-127	160,-
CCT 60K-5L	ILT 60K-2LGAM	30 | 60	D	PLJ 3000-2CM	3500	0,01	0,01	3000,-	965-229-216	159,-	962-129-127	160,-
CCT 100K-5	ILT 100K-2GAM	60 | 150	D	PLJ 3000-2CM	3500	0,01	0,01	2900,-	965-229-216	159,-	962-129-127	160,-
CCT 100K-5L	ILT 100K-2LGAM	60 | 150	D	PLJ 3000-2CM	3500	0,01	0,01	2900,-	965-229-216	159,-	962-129-127	160,-
CCT 300K-5	ILT 300K-2GAM	150 | 300	D	PLJ 3000-2CM	3500	0,01	0,01	3000,-	965-229-216	159,-	962-129-127	160,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

09 Platform scales

Industrial scales

In the KERN range there are portable, affordable entry level models for weighing post or parcels, high-quality models with a high ➔ ***IP protection*** and type approval (➔ ***Verification***) for commercial trade applications, up to top level models with touchscreen technology for complex recipe or check-weighing applications with relay control – there is the right platform scale for each application.

Platform scales benefits are obvious:

- Weighing range from 3 kg – 600 kg
- Robust platform construction for harsh industrial applications
- Versatile, available with stand
- High overload protection
- Stainless steel weighing plate, shock proof and easy to clean
- Display device can be positioned separately, e.g. wall-mounted, on a stand or next to the platform. This guarantees for an always clear view on the display despite bulky items on the scale
- Large selection of platform sizes

In order to meet the various requirements of our industrial customers, KERN platform scales have a large number of practical functions. From counting and recipe functions via ➔ ***data interfaces*** (RS-232, RS-485, USB, Bluetooth, WLAN, Ethernet) for connecting scales to a network, PC or printer to the useful battery or recheargable battery operation for mobile use. The „Hold function“ is particularly useful for industrial weighing and guarantees stable results even in turbulent locations or when weighing animals – a true all-rounder.

The newest development for an even greater level of user-friendliness is the wireless communication between platform and display device, giving the highest level of flexibility – weighing at the location of use of installation and read the weight up to 20 m away.

Particularly practical: the touchless tare function allows for taring the scale without having to touch it by using movement sensors. This is useful when working with gloves or dirty hands, see page 109, 120.

➔ *See the glossary on page 214 – 216*

Your product specialist‘s recommendation:

- **The bestseller in parcel scales**
- **Enormous range of functions**
- **Easy to use**

Stephan Ade
Product specialist Platform scales

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Quick-Finder Platform scales

Read-out [d]	Weighing range [Max]	Weighing plate mm	Model KERN	Price excl. of VAT ex works €	Page	DAYS *	M	CAL INT	CAL EXT	MEMORY	RS 232	PCS	IP	BATT	ACCU
							For an explanation on the pictos, see the front flap								
0,01 g	3 kg	228x228x90	**DS 3K0.01S**	**640,-**	114	1			●		●	●			○
0,01 g	3 kg	228x228x70	**IKT 3K0.01S**	**920,-**	118	1			●	●	●	●			○
0,01 g	10 kg	347x259	**ILT 10K-5NM**	**3600,-**	120	21	○	●		●	●	●			
0,05 g	5 kg	228x228x90	**DS 5K0.05S**	**560,-**	114	1			●		●	●			○
0,05 g	8 kg	308x318x75	**DS 8K0.05**	**550,-**	114	1			●		●	●			○
0,05 g	8 kg	318x308x75	**IKT 8K0.05**	**850,-**	118	1			●	●	●	●			○
0,1 g	6 kg	318x308x75	**IKT 6K0.1**	**830,-**	118	1			●	●	●	●			○
0,1 g	6 kg	195x195	**ILT 6K-4BAM**	**2200,-**	120	21	○	●		●	●	●			
0,1 g	10 kg	228x228x90	**DS 10K0.1S**	**530,-**	114	1			●		●	●			○
0,1 g	10 kg	228x228x70	**IKT 10K0.1S**	**850,-**	118	1			●	●	●	●			○
0,1 g	16 kg	308x318x75	**DS 16K0.1**	**550,-**	114	1			●		●	●			○
0,1 g	16 kg	318x308x75	**IKT 16K0.1**	**850,-**	118	1			●	●	●	●			○
0,1 g	20 kg	308x318x75	**DS 20K0.1**	**580,-**	114	1			●		●	●			○
0,1 g	25 kg	347x259	**ILJ 25K-4CM**	**2050,-**	122	1	○	●		●	●	●			
0,1 g	30 kg	308x318x75	**DS 30K0.1**	**610,-**	114	1			●		●	●			○
0,1 g	30 kg	450x350x115	**DS 30K0.1L**	**700,-**	114	1			●		●	●			○
0,1 g	30 kg	318x308x75	**IKT 30K0.1**	**850,-**	118	1			●	●	●	●			○
0,1 g	30 kg	450x350x115	**IKT 30K0.1L**	**1150,-**	118	1			●	●	●	●			○
0,1 g	30 kg	347x259	**ILS 30K-4C**	**1790,-**	122	1			●	●	●	●			
0,1 g	35 kg	347x259	**ILT 35K-4NM**	**4200,-**	120	21	○	●		●	●	●			
0,1 g	50 kg	347x259	**ILS 50K-4C**	**2320,-**	122	1			●	●	●	●			
0,1 g	50 kg	347x259	**ILT 50K-4C**	**5500,-**	120	21			●	●	●	●			
0,2 g	6 kg	300x240x110	**IFB 6K-4**	**320,-**	112	1			●		●	●			○
0,2 g	6 kg	300x240x86	**IXS 6K-4**	**590,-**	116	1			●		○	●	●		○
0,2 g	12 kg	318x308x75	**IKT 12K0.2**	**830,-**	118	1			●	●	●	●			○
0,2 g	36 kg	308x318x75	**DS 36K0.2**	**550,-**	114	1			●		●	●			○
0,2 g	36 kg	318x308x75	**IKT 36K0.2**	**850,-**	118	1			●	●	●	●			○
0,2 g	60 kg	450x350x115	**DS 60K0.2**	**740,-**	114	1			●		●	●			○
0,2 g	60 kg	450x350x115	**IKT 60K0.2L**	**1120,-**	118	1			●	●	●	●			○
0,2 | 0,5 g	6 | 15 kg	318x308x85	**DE 15K0.2D**	**335,-**	110	1			●		●	●	●	○	○
0,5 g	6 kg	318x308x75	**DE 6K0.5A**	**215,-**	110	1			●		●	●	●	○	○
0,5 g	15 kg	300x240x110	**IFB 10K-4**	**320,-**	112	1			●		●	●			○
0,5 g	15 kg	300x240x86	**IXS 10K-4**	**590,-**	116	1			●		○	●	●		○
0,5 g	15 kg	400x300x89	**IXS 10K-4L**	**590,-**	116	1			●		○	●	●		○
0,5 g	30 kg	318x308x75	**IKT 30K0.5**	**830,-**	118	1			●	●	●	●			○
0,5 g	65 kg	450x350x115	**DS 65K0.5**	**700,-**	114	1			●		●	●			○
0,5 g	65 kg	450x350x115	**IKT 65K0.5L**	**1050,-**	118	1			●	●	●	●			○
0,5 g	100 kg	450x350x115	**DS 100K0.5**	**740,-**	114	1			●		●	●			○
0,5 g	100 kg	450x350x115	**IKT 100K0.5L**	**1150,-**	118	1			●	●	●	●			○
0,5 | 1 g	15 | 35 kg	318x308x85	**DE 35K0.5D**	**335,-**	110	1			●		●	●	●	○	○
1 g	6 kg	318x308x75	**IKT 6K1M**	**990,-**	118	1	○		●	●	●	●			○
1 g	12 kg	318x308x75	**DE 12K1A**	**215,-**	110	1			●		●	●	●	○	○
1 g	30 kg	400x300x128	**IFB 30K-3**	**390,-**	112	1			●		●	●			○
1 g	30 kg	400x300x89	**IXS 30K-3**	**590,-**	116	1			●		○	●	●		○
1 g	30 kg	500x400x123	**IXS 30K-3L**	**720,-**	116	1			●		○	●	●		○
1 g	60 kg	450x350x115	**IKT 60K1L**	**1050,-**	118	1			●	●	●	●			○
1 g	60 kg	500x400	**ILT 60K-3BAM**	**2400,-**	120	21	○	●		●	●	●			
1 g	65 kg	450x350x115	**DS 65K1M**	**790,-**	114	1	○		●		●	●			○
1 g	150 kg	450x350x115	**DS 150K1**	**740,-**	114	1			●		●	●			○
1 g	150 kg	450x350x115	**IKT 150K1L**	**1150,-**	118	1			●	●	●	●			○
1 | 2 g	3 | 6 kg	318x308x75	**DE 6K1D**	**185,-**	110	1			●		●	●	●	○	○
1 | 2 g	3 | 6 kg	300x240x110	**IFB 6K1DM**	**320,-**	112	1	○		●		●	●			○
1 | 2 g	3 | 6 kg	300x240x86	**IXS 6K-3M**	**500,-**	116	1	○		●		○	●	●		○
1 | 2 g	3 | 6 kg	230x230	**ILT 6K-3GAM**	**2200,-**	120	21	○	●		●	●	●			
1 | 2 g	30 | 60 kg	318x308x85	**DE 60K1D**	**335,-**	110	1			●		●	●	●	○	○
2 g	6 kg	300x240x110	**SFE 6K-3M**	**380,-**	115	1	○		●				●		●
2 g	12 kg	318x308x75	**IKT 12K2M**	**990,-**	118	1	○		●	●	●	●			○
2 g	24 kg	318x308x75	**DE 24K2A**	**215,-**	110	1			●		●	●	●	○	○
2 g	60 kg	400x300x128	**IFB 60K-3**	**390,-**	112	1			●		●	●			○
2 g	60 kg	400x300x89	**IXS 60K-3**	**590,-**	116	1			●		○	●	●		○
2 g	60 kg	500x400x123	**IXS 60K-3L**	**720,-**	116	1			●		○	●	●		○
2 g	120 kg	450x350x115	**IKT 120K2L**	**1050,-**	118	1			●	●	●	●			○
2 g	150 kg	650x500x142	**IKT 150K2XL**	**1200,-**	118	1			●	●	●	●			○
2 | 5 g	6 | 15 kg	318x308x75	**DE 15K2D**	**185,-**	110	1			●		●	●	●	○	○
2 | 5 g	6 | 15 kg	300x240x110	**IFB 15K2DM**	**320,-**	112	1	○		●		●	●			○
2 | 5 g	6 | 15 kg	300x240x86	**IXS 10K-3M**	**500,-**	116	1	○		●		○	●	●		○
2 | 5 g	6 | 15 kg	300x240	**ILT 10K-3GAM**	**1900,-**	120	21	○	●		●	●	●			
2 | 5 g	60 | 150 kg	318x308x85	**DE 150K2D**	**340,-**	110	1			●		●	●	●	○	○
5 g	15 kg	315x305x30	**EOA 10K-3**	**110,-**	107	1			●					●	
5 g	15 kg	315x305x65	**EOE 10K-3**	**130,-**	107	1			●					●	
5 g	15 kg	315x305x65	**EOB 15K5**	**152,-**	108	1			●					○	

= News 2016

*For an explanation on the pictos, see the front flap

● = Standard ○ = Option

Quick-Finder Platform scales

Read-out [d]	Weighing range [Max]	Weighing plate mm	Model KERN	Price excl. of VAT ex works €	Page	DAYS *	M	CAL INT	CAL EXT	MEMORY	RS 232	PCS	IP	BATT	ACCU
							For an explanation on the pictos, see the front flap								
5 g	15 kg	300x240x110	**SFE 15K5IPM**	**360,-**	115	1	○		●				●		●
5 g	15 kg	400x300x128	**SFE 10K-3LM**	**420,-**	115	1	○		●				●		●
5 g	30 kg	318x308x75	**IKT 30K5M**	**1010,-**	118	1	○		●	●	●	●			○
5 g	60 kg	318x308x75	**DE 60K5A**	**215,-**	110	1			●		●	●	●	○	○
5 g	150 kg	500x400x137	**IFB 100K-3**	**490,-**	112	1			●		●	●			○
5 g	300 kg	650x500x142	**IKT 300K5XL**	**1200,-**	118	1			●	●	●	●			○
5 | 10 g	15 | 30 kg	400x300x128	**IFB 30K5DM**	**380,-**	112	1	○		●		●	●			○
5 | 10 g	15 | 30 kg	400x300x89	**IXS 30K-2M**	**590,-**	116	1	○		●		○	●	●		○
5 | 10 g	15 | 30 kg	500x400x123	**IXS 30K-2LM**	**720,-**	116	1	○		●		○	●	●		○
5 | 10 g	15 | 30 kg	400x300	**ILT 30K-2GAM**	**2200,-**	120	21	○	●		●	●	●			
5 | 10 g	15 | 35 kg	318x308x75	**DE 35K5D**	**185,-**	110	1			●		●	●	●	○	○
5 | 10 g	15 | 35 kg	522x403x90	**DE 35K5DL**	**315,-**	110	1			●		●	●	●	○	○
5 | 10 g	150 | 300 kg	522x406x100	**DE 300K5DL**	**435,-**	110	1			●		●	●	●	○	○
10 g	30 kg	300x240x110	**SFE 30K10IPM**	**360,-**	115	1	○		●				●		●
10 g	35 kg	315x305x30	**EOA 30K-2**	**110,-**	107	1			●					●	
10 g	35 kg	315x305x65	**EOE 30K-2**	**130,-**	107	1			●					●	
10 g	35 kg	315x305x65	**EOB 35K10**	**152,-**	108	1			●					○	
10 g	35 kg	315x305x65	**EOB 35K-2F**	**205,-**	109	1			●					○	
10 g	60 kg	450x350x115	**IKT 60K10LM**	**1250,-**	118	1	○		●	●	●	●			○
10 g	120 kg	318x308x75	**DE 120K10A**	**215,-**	110	1			●		●	●	●	○	○
10 g	300 kg	650x500x142	**IFB 300K-2**	**690,-**	112	1			●		●	●			○
10 | 20 g	30 | 60 kg	318x308x75	**DE 60K10D**	**185,-**	110	1			●		●	●	●	○	○
10 | 20 g	30 | 60 kg	522x403x90	**DE 60K10DL**	**315,-**	110	1			●		●	●	●	○	○
10 | 20 g	30 | 60 kg	400x300x128	**IFB 60K10DM**	**380,-**	112	1	○		●		●	●			○
10 | 20 g	30 | 60 kg	500x400x137	**IFB 60K10DLM**	**470,-**	112	1	○		●		●	●			○
10 | 20 g	30 | 60 kg	400x300x89	**IXS 60K-2M**	**590,-**	116	1	○		●		○	●	●		○
10 | 20 g	30 | 60 kg	500x400x123	**IXS 60K-2LM**	**720,-**	116	1	○		●		○	●	●		○
10 | 20 g	30 | 60 kg	400x300	**ILT 60K-2GAM**	**2200,-**	120	21	○	●		●	●	●			
20 g	60 kg	315x305x30	**EOA 50K-2**	**110,-**	107	1			●					●	
20 g	60 kg	315x305x65	**EOE 60K-2**	**130,-**	107	1			●					●	
20 g	60 kg	315x305x65	**EOB 60K20**	**152,-**	108	1			●					○	
20 g	60 kg	315x305x65	**EOB 60K-2F**	**205,-**	109	1			●					○	
20 g	60 kg	550x550x65	**EOB 60K20L**	**350,-**	108	1			●					○	
20 g	60 kg	400x300x128	**SFE 60K20IPM**	**410,-**	115	1	○		●				●		●
20 g	60 kg	500x400x137	**SFE 60K-2LM**	**520,-**	115	1	○		●				●		●
20 g	120 kg	450x350x115	**IKT 120K20LM**	**1250,-**	118	1	○		●	●	●	●			○
20 g	600 kg	800x600x150	**IFB 600K-2**	**750,-**	112	1			●		●	●			○
20 | 50 g	60 | 150 kg	318x308x75	**DE 150K20D**	**195,-**	110	1			●		●	●	●	○	○
20 | 50 g	60 | 150 kg	522x403x90	**DE 150K20DL**	**315,-**	110	1			●		●	●	●	○	○
20 | 50 g	60 | 150 kg	500x400x137	**IFB 150K20DM**	**470,-**	112	1	○		●		●	●			○
20 | 50 g	60 | 150 kg	650x500x142	**IFB 150K20DLM**	**620,-**	112	1	○		●		●	●			○
20 | 50 g	60 | 150 kg	500x400x123	**IXS 100K-2M**	**720,-**	116	1	○		●		○	●	●		○
20 | 50 g	60 | 150 kg	650x500x133,5	**IXS 100K-2LM**	**790,-**	116	1	○		●		○	●	●		○
20 | 50 g	60 | 150 kg	500x400	**ILT 100K-2GAM**	**2100,-**	120	21	○	●		●	●	●			
50 g	150 kg	315x305x30	**EOA 100K-2**	**110,-**	107	1			●					●	
50 g	150 kg	315x305x65	**EOE 100K-2**	**130,-**	107	1			●					●	
50 g	150 kg	315x305x65	**EOB 150K50**	**152,-**	108	1			●					○	
50 g	150 kg	315x305x65	**EOB 150K-2F**	**205,-**	109	1			●					○	
50 g	150 kg	505x505x65	**EOE 150K50L**	**255,-**	107	1			●					●	
50 g	150 kg	945x505x65	**EOE 150K50XL**	**300,-**	107	1			●					●	
50 g	150 kg	550x550x65	**EOB 150K50L**	**350,-**	108	1			●					○	
50 g	150 kg	945x505x65	**EOB 150K50XL**	**380,-**	108	1			●					○	
50 g	150 kg	900x550x60	**EOS 150K50XL**	**410,-**	108	1			●					○	
50 g	150 kg	400x300x128	**SFE 100K-2M**	**420,-**	115	1	○		●				●		●
50 g	150 kg	900x550x60	**EOS 150K50XLF**	**480,-**	109	1			●					○	
50 g	150 kg	500x400x137	**SFE 100K-2LM**	**520,-**	115	1	○		●				●		●
50 | 100 g	150 | 300 kg	522x403x90	**DE 300K50D**	**315,-**	110	1			●		●	●	●	○	○
50 | 100 g	150 | 300 kg	650x500x105	**DE 300K50DL**	**380,-**	110	1			●		●	●	●	○	○
50 | 100 g	150 | 300 kg	650x500x142	**IFB 300K50DM**	**625,-**	112	1	○		●		●	●			○
50 | 100 g	150 | 300 kg	650x500x133,5	**IXS 300K-2M**	**790,-**	116	1	○		●		○	●	●		○
50 | 100 g	150 | 300 kg	650x500	**ILT 300K-2GAM**	**2200,-**	120	21	○	●		●	●	●			
100 g	300 kg	315x305x65	**EOB 300K100A**	**152,-**	108	1			●					○	
100 g	300 kg	505x505x65	**EOE 300K100L**	**255,-**	107	1			●					●	
100 g	300 kg	945x505x65	**EOE 300K100XL**	**300,-**	107	1			●					●	
100 g	300 kg	550x550x65	**EOB 300K100L**	**350,-**	108	1			●					○	
100 g	300 kg	945x505x65	**EOB 300K100XL**	**375,-**	108	1			●					○	
100 g	300 kg	900x550x60	**EOS 300K100XL**	**410,-**	108	1			●					○	
100 g	300 kg	550x550x65	**EOB 300K-1LF**	**420,-**	109	1			●					○	
100 g	300 kg	900x550x60	**EOS 300K100XLF**	**480,-**	109	1			●					○	
100 g	300 kg	650x500x142	**SFE 300K-1LM**	**720,-**	115	1	○		●				●		●
100 | 200 kg	300 | 600 kg	800x600x150	**IFB 600K-1M**	**890,-**	112	1	○		●		●	●			○

□ = News 2016 *For an explanation on the pictos, see the front flap ● = Standard ○ = Option

Parcel scales KERN EOA · EOE

KERN EOA

KERN EOE

Parcel scales for fast and easy weighing in the office, production, dispatch etc.

Features

- **High mobility:** Battery operation, compact, flat construction and low weight make this scale ideal for the use in several locations
- Weighing plate steel, lacquered

EOA:
- **Simple and convenient 2-key operation**
- **Adjusting program CAL**, external test weights at an additional price, see page 189 ff.

EOE:
- **Wall mount** for display device standard
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value

Technical data

- Large LCDdisplay, digit height 25 mm
- Permissible ambient temperature 10 °C / 35 °C
- Ready for use: Batteries included, 9 V block (EOA)/6 x 1.5 V AA (EOE), operating time up to 60 h

EOA:
- Dimensions of display device WxDxH 226x55x111 mm

EOE:
- Dimensions of display device WxDxH 210x110x45 mm

Accessories

EOA:
- **Protective working cover** over the display device, standard. Can be re-ordered, scope of delivery: 5 items, KERN DE-A12S05, **€ 30,-**
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA. Not included, can be retrofitted, KERN YKA-06, **€ 35,-**

EOE:
- 1 **Ascending ramp** incl. pair of base plates for models with weighing plate size WxDxH 505x505x65 mm, not included. WxDxH 505x507x61 mm, can be retrofitted, KERN EOE-A02, **€ 135,-**
- **Non-slip rubber mat**, WxD 945x505 mm, KERN EOE-A01, **€ 45,-**
- **Sturdy transport case**, for models with weighing plate size ≤ 315x305x65 mm, for details see page 184, KERN MPS-A07, **€ 115,-**

STANDARD

OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Cable length approx. m	Weighing plate mm	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €
EOA 10K-3	15	5	5	± 25	3	1,4	315x305x30	**110,-**	963-128	88,-
EOA 30K-2	35	10	10	± 50	3	1,4	315x305x30	**110,-**	963-128	88,-
EOA 50K-2	60	20	20	± 100	3	1,4	315x305x30	**110,-**	963-129	105,-
EOA 100K-2	150	50	50	± 250	3	1,4	315x305x30	**110,-**	963-129	105,-
EOE 10K-3	15	5	5	± 10	4	1,8	315x305x65	**130,-**	963-128	88,-
EOE 30K-2	35	10	10	± 20	4	1,8	315x305x65	**130,-**	963-128	88,-
EOE 60K-2	60	20	20	± 40	4	1,8	315x305x65	**130,-**	963-129	105,-
EOE 100K-2	150	50	50	± 100	4	1,8	315x305x65	**130,-**	963-129	105,-
EOE 150K50L	150	50	50	± 100	12,5	2,7	505x505x65	**255,-**	963-129	105,-
EOE 150K50XL	150	50	50	± 100	19,5	2,7	945x505x65	**300,-**	963-129	105,-
EOE 300K100L	300	100	100	± 200	12,5	2,7	505x505x65	**255,-**	963-129	105,-
EOE 300K100XL	300	100	100	± 200	19,5	2,7	945x505x65	**300,-**	963-129	105,-

KERN EOB

1

2

KERN EOS

The bestsellers in parcel- and veterinary scales, also with XL-platform, and big weighing ranges

Features

- **Stainless steel weighing plate**, painted steel base
- **Simple and convenient 4-key operation**
- **Wall mount** for display device, standard
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value

EOS:

- The scale can be easily transported using 2 rollers and a handle and does not require much storage space

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of display device WxDxH 210x110x45 mm
- Cable length of display device approx. 1,8 m
- Optional battery operation, 6 x 1.5 V AA not included, operating time up to 60 h
- Permissible ambient temperature 10 °C / 35 °C

EOB:

- Weighing plate dimensions, WxDxH
  A 315x305x65 mm
  B 550x550x65 mm, see enlarged picture
  C 945x505x65 mm

EOS:

- Weighing plate dimensions, stainless steel, WxDxH
  D 900x550x60 mm

Accessories

- 1 **Stand** to elevate display device, height of stand approx. 950 mm, can be retrofitted, KERN MWS-A01, **€ 180,-**

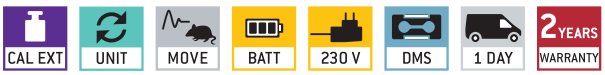
EOB:

- **Non-slip rubber mat**, only for models with weighing plate size C, KERN EOE-A01, **€ 45,-**
- 2 **Stand** to elevate display device, height of stand approx. 450 mm, only for models with weighing plate size A, can be retrofitted, KERN EOB-A01N, **€ 80,-**

EOS:

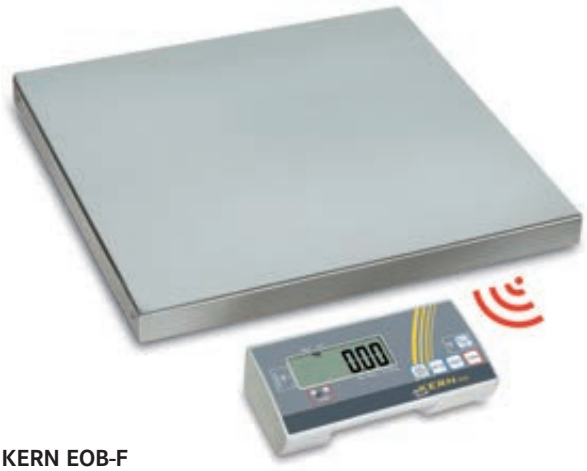
- **Non-slip rubber mat** standard. Can be re-ordered, KERN EOS-A01, **€ 35,-**

STANDARD



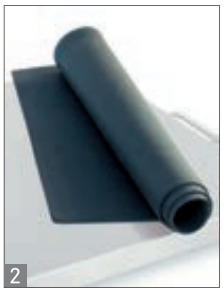
OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	 €
EOB 15K5	15	5	5	± 10	4,8	A	**152,-**	963-128	88,-
EOB 35K10	35	10	10	± 20	4,8	A	**152,-**	963-128	88,-
EOB 60K20	60	20	20	± 40	4,8	A	**152,-**	963-129	105,-
EOB 60K20L	60	20	20	± 40	14	B	**350,-**	963-129	105,-
EOB 150K50	150	50	50	± 100	4,8	A	**152,-**	963-129	105,-
EOB 150K50L	150	50	50	± 100	14	B	**350,-**	963-129	105,-
EOB 150K50XL	150	50	50	± 100	19	C	**380,-**	963-129	105,-
EOB 300K100A	300	100	100	± 200	4,8	A	**152,-**	963-129	105,-
EOB 300K100L	300	100	100	± 200	14	B	**350,-**	963-129	105,-
EOB 300K100XL	300	100	100	± 200	19	C	**375,-**	963-129	105,-
EOS 150K50XL	150	50	50	± 100	20,1	D	**410,-**	963-129	105,-
EOS 300K100XL	300	100	100	± 200	20,1	D	**410,-**	963-129	105,-



KERN EOB-F

1



2

KERN EOS-F

Radio platform scales with touchless tare function

Features

- **Display device with integrated radio module** for wireless communication with the weighing platform: ideal for weighing contaminated items, weighing in loud environments or with physical separation. Range approx. 20 m
- 1 **Touchless tare function:** by the wave of your hand. No need to operate the scale with dirty gloves anymore
- **Network operation:** 3 frequencies for parallel use of several weighing platforms with a single display device
- **High mobility** thanks to battery operation for display device and platform
- **Simple and convenient 4-key operation**
- **Stainless steel weighing plate**, painted steel base
- **Wall mount** for display device standard
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value

EOS -F:

- **2 rollers and handle** for easy transport of the scale

Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxDxH
  - A 315x305x55 mm
  - B 550x550x65 mm
  - C 900x550x60 mm
- Dimensions of display device WxDxH 210x110x45 mm
- Optional battery operation, 6 x 1.5 V AA not included, operating time up to 70 h
- Permissible ambient temperature 10 °C / 35 °C

Accessories

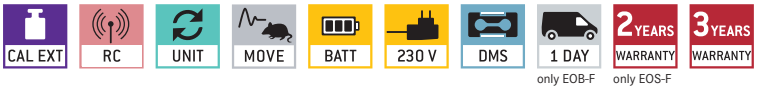
- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN EOB-A02S05, **€ 46,-**
- **Stand** to elevate display device, height of stand approx. 450 mm, only for models with weighing plate size A, can be retrofitted, KERN EOB-A01N, **€ 80,-**
- **Stand** to elevate display device, can be retrofitted, height of stand approx. 950 mm, KERN MWS-A01, **€ 180,-**

EOS -F:

- 2 **Non-slip rubber mat** standard. Can be re-ordered, KERN EOS-A01, **€ 35,-**

09

STANDARD



OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €
EOB 35K-2F	35	10	10	± 20	A	**205,-**	963-128	88,-
EOB 60K-2F	60	20	20	± 40	A	**205,-**	963-129	105,-
EOB 60K-2LF	60	20	20	± 40	B	**410,-**	963-129	105,-
EOB 150K-2F	150	50	50	± 100	A	**205,-** ↓	963-129	105,-
EOB 150K-2LF	150	50	50	± 100	B	**415,-**	963-129	105,-
EOB 300K-1LF	300	100	100	± 200	B	**420,-**	963-129	105,-
EOS 150K50XLF	150	50	50	± 100	C	**480,-**	963-129	105,-
EOS 300K100XLF	300	100	100	± 200	C	**480,-**	963-129	105,-

↓ Price reduction

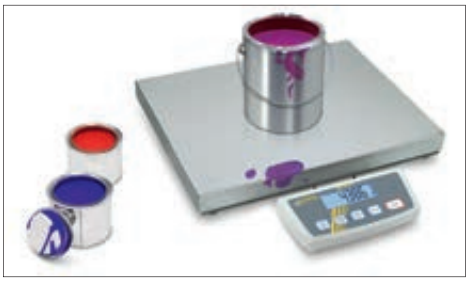
Parcel scale KERN DE-D

09

The long lasting story of success with dust and spray protected display device

Piece counting

Animal weighing



Recipe weighing

Features

- **High mobility:** Battery or rechargeable battery (optional) operation, compact and flat construction and low weight make this scale ideal for use in several locations (production, warehouse, dispatch department etc.)
- **Flexible positioning of display device:** e.g. free-standing or mounted to the wall (optional)
- 1 **Display device IP65.** Protected against dust and spray (only when using battery or rechargeable battery pack)
- **Stainless steel weighing plate**, painted steel base
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- With the **recipe function** you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar

Parcel scale KERN DE-D

A

E

2

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, WxDxH
  - A 318x308x75 mm
  - B 318x308x85 mm
  - C 522x406x58 mm
  - D 523x405x85 mm, see enlarged picture
  - E 650x500x95 mm
- Dimensions of display device WxDxH 225x110x55 mm
- Optional battery operation, 9 V block, not included
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over the display device, standard. Can be re-ordered, scope of delivery: 5 items, KERN DE-A12S05, **€ 30,-**
- **Rechargeable battery pack internal**, operating time up to 15 h, charging time approx. 10 h, can be retrofitted, KERN NDE-A02, **€ 40,-**
- **Mount** to fasten the display device to the platform, can be retrofitted, KERN DE-A11N, **€ 35,-**
- **Wall mount** for display device, can be retrofitted, KERN DE-A13, **€ 30,-**
- 2 **Stand** to elevate display device, height of stand approx. 480 mm, can be retrofitted, KERN DE-A10, **€ 95,-**
- **Individual header data:** the free software KERN SHM-01 can be used to set up 4 header lines on the printout for printers YKN-01 and YKB-01N
- **Suitable printers** and further, extensive accessories from page 177 ff.

09

STANDARD

CAL EXT · RS 232 · PCS · SUM · PERCENT · UNIT · MOVE · IP 65 · BATT · MULTI · DMS · 1 DAY · 2 YEARS WARRANTY

1

OPTION

ACCU · DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	Option DAkkS Calibr. Certificate €
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].											
DE 6K1D	3 | 6	1 | 2	1 | 2	± 3 | ± 6	4	1,4	4	A	**185,-**	963-128	88,-
DE 15K2D	6 | 15	2 | 5	2 | 5	± 6 | ± 15	10	1,4	4	A	**185,-**	963-128	88,-
DE 35K5D	15 | 35	5 | 10	5 | 10	± 15 | ± 30	10	1,4	4	A	**185,-**	963-128	88,-
DE 35K5DL	15 | 35	5 | 10	5 | 10	± 15 | ± 30	10	1,4	16	D	**315,-**	963-128	88,-
DE 60K10D	30 | 60	10 | 20	10 | 20	± 30 | ± 60	20	1,4	4	A	**185,-**	963-129	105,-
DE 60K10DL	30 | 60	10 | 20	10 | 20	± 30 | ± 60	20	1,4	16	D	**315,-**	963-129	105,-
DE 150K20D	60 | 150	20 | 50	20 | 50	± 60 | ± 150	40	1,4	4	A	**195,-**	963-129	105,-
DE 150K20DL	60 | 150	20 | 50	20 | 50	± 60 | ± 150	40	1,4	16	D	**315,-**	963-129	105,-
DE 150K20DXL	60 | 150	20 | 50	20 | 50	± 60 | ± 150	40	1,4	28	E	**380,-**	963-129	105,-
DE 300K50D	150 | 300	50 | 100	50 | 100	± 150 | ± 300	200	1,4	16	D	**315,-**	963-129	105,-
DE 300K50DL	150 | 300	50 | 100	50 | 100	± 150 | ± 300	200	1,4	28	E	**380,-**	963-129	105,-
DE 6K0.5A	6	0,5	0,5	± 1,5	1	1,4	4	A	**215,-**	963-128	88,-
DE 12K1A	12	1	1	± 3	2	1,4	4	A	**215,-**	963-128	88,-
DE 24K2A	24	2	2	± 6	4	1,4	4	A	**215,-**	963-128	88,-
DE 60K5A	60	5	5	± 15	10	1,4	4	A	**215,-**	963-129	105,-
DE 120K10A	120	10	10	± 30	20	1,4	4	A	**215,-**	963-129	105,-
Dual-range balance with high-resolution display											
DE 15K0.2D	6 | 15	0,2 | 0,5	0,2 | 0,5	± 0,8 | ± 2	0,4	1	4	B	**335,-**	963-128	88,-
DE 35K0.5D	15 | 35	0,5 | 1	0,5 | 1	± 2 | ± 4	1	1	4	B	**335,-**	963-128	88,-
DE 60K1D	30 | 60	1 | 2	1 | 2	± 4 | ± 8	2	1	4	B	**335,-**	963-129	105,-
DE 60K1DL	30 | 60	1 | 2	1 | 2	± 4 | ± 8	2	1,4	16	C	**435,-**	963-129	105,-
DE 150K2D	60 | 150	2 | 5	2 | 5	± 8 | ± 20	4	1	4	B	**340,-**	963-129	105,-
DE 150K2DL	60 | 150	2 | 5	2 | 5	± 8 | ± 20	4	1,4	16	C	**435,-**	963-129	105,-
DE 300K5DL	150 | 300	5 | 10	5 | 10	± 20 | ± 40	10	1,4	16	C	**435,-**	963-129	105,-

Industrial platform scale KERN IFB

Platform scale in heavy version with EC type approval [M], now also up to [Max] 600 kg

Features

- **Industrial quality:** because of its stable construction and robust design, it is ideal for continuous use in an industrial environment
- 1 **Platform:** Weighing plate stainless steel, painted steel base, protection against dust and water splashes IP65, silicone-coated aluminium load cell, details see page 150
- **Display device:** Superior display size, digit height 52 mm for the easy reading of weighing results, even under poor lighting conditios. For details see page 147, KERN KFB-TM
- **Benchtop stand incl. wall mount** for display device as standard
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing results
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading
- **Totalising** of weights and piece counts
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value
- **New:** high-resolution models for high-precision weighing and models with a weighing range of 600 kg!

Industrial platform scale KERN IFB

E

1

2

Technical data

- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions, stainless steel, WxDxH
  - A 300x240x110 mm
  - B 400x300x115 mm
  - C 500x400x137 mm, see enlarged picture
  - D 650x500x142 mm
  - E 800x600x200 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard. Can be re-ordered, scope of delivery: 5 items, KERN KFB-A02S05, **€ 35,-**
- **Signal lamp** for visual support of weighing with tolerance range. For details see page 181, can be retrofitted, KERN CFS-A03, **€ 250,-**
- **Stand** to elevate display device, 2 height of stand approx. 330 mm, see illustration, KERN IFB-A01, **€ 50,-** height of stand approx. 600 mm, can be retrofitted, for models with weighing plate size C, D and E, KERN IFB-A02, **€ 60,-** height of stand approx. 750 mm, can be retrofitted, KERN BFS-A07, **€ 120,-**
- **Y-cable**, RS-232, details see page 181, can be retrofitted, KERN CFS-A04, **€ 35,-**
- **Rechargeable battery pack internal**, operating time up to 35 h, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, **€ 35,-**
- **Large display with superior display size**, for details see page 181, can be retrofitted, KERN YKD-A02, **€ 215,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

09

STANDARD

CAL EXT · RS 232 · GLP PRINTER · PCS · SUM · TOL · MOVE · IP 65 · MULTI · DMS · 1 DAY (only E) · 2 DAYS · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

FACTORY

ACCU (only IFB-M) · M +3 DAYS (only IFB-M)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options: Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
IFB 6K-4	6	0,2	–	–	6	A	**320,-**	–	–	963-128	88,-
IFB 10K-4	15	0,5	–	–	6	A	**320,-**	–	–	963-128	88,-
IFB 10K-4L	15	0,5	–	–	10	B	**390,-**	–	–	963-128	88,-
IFB 30K-3	30	1	–	–	10	B	**390,-**	–	–	963-128	88,-
IFB 60K-3	60	2	–	–	10	B	**390,-**	–	–	963-129	105,-
IFB 60K-3L	60	2	–	–	13	C	**490,-**	–	–	963-129	105,-
IFB 100K-3	150	5	–	–	13	C	**490,-**	–	–	963-129	105,-
IFB 100K-3L	150	5	–	–	22	D	**690,-**	–	–	963-129	105,-
IFB 300K-2	300	10	–	–	22	D	**690,-**	–	–	963-129	105,-
IFB 600K-2	600	20	–	–	51	E	**750,-**	–	–	963-130	165,-
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].											
IFB 6K1DM	3 | 6	1 | 2	1 | 2	20	6	A	**320,-**	965-228	55,-	963-128	88,-
IFB 15K2DM	6 | 15	2 | 5	2 | 5	40	6	A	**320,-**	965-228	55,-	963-128	88,-
IFB 15K2DLM	6 | 15	2 | 5	2 | 5	40	10	B	**380,-**	965-228	55,-	963-128	88,-
IFB 30K5DM	15 | 30	5 | 10	5 | 10	100	10	B	**380,-**	965-228	55,-	963-128	88,-
IFB 60K10DM	30 | 60	10 | 20	10 | 20	200	10	B	**380,-**	965-229	93,-	963-129	105,-
IFB 60K10DLM	30 | 60	10 | 20	10 | 20	200	13	C	**470,-**	965-229	93,-	963-129	105,-
IFB 150K20DM	60 | 150	20 | 50	20 | 50	400	13	C	**470,-**	965-229	93,-	963-129	105,-
IFB 150K20DLM	60 | 150	20 | 50	20 | 50	400	22	D	**620,-**	965-229	93,-	963-129	105,-
IFB 300K50DM	150 | 300	50 | 100	50 | 100	1000	22	D	**625,-**	965-229	93,-	963-129	105,-
IFB 600K-1M	300 | 600	100 | 200	100 | 200	2000	51	E	**890,-**	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

1

2

- Cable length of display device
  A, B approx. 2 m
  C approx. 0,6 m
- Permissible ambient temperature DS:
  10 °C / 40 °C; DS-M: 10 °C / 30 °C

Precision industrial scale with laboratory accuracy, also with EC type approval [M] class II

Features

- **High-capacity precision balance**, ideal for high volume or heavy samples to be weighed with a high degree of accuracy
- **User guidance step by step** on display by Yes/No dialogue
- **Numerical subtraction of tare weight** for known container weight. Useful for checking fill-levels
- **Precise counting:** The automatic reference weight optimisation of the reference weight gradually improves the average piece weight value
- **only DS:** Freely programmable weighing unit, e.g. display directly in special units such as length of wire g/m, paper weight g/m², or similar

Technical data

- Large backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxDxH
  A 228x228x90 mm
  B 308x318x75 mm, see enlarged picture
  C 450x350x115 mm
- Dimensions of display device WxDxH 225x115x60 mm

Accessories

- **Protective working cover** over the display device, standard. Can be re-ordered, scope of delivery: 5 items, KERN DE-A12S05, **€ 30,-**
- 1 **Stand** to elevate display device, for models with weighing plate size B, C, height of stand approx. 480 mm, can be retrofitted, KERN DE-A10, **€ 95,-**
- **Mount** to fasten the display device to the platform, for models with weighing plate size B, C, can be retrofitted, KERN DE-A11N, **€ 35,-**
- **Wall mount** for display device, can be re-ordered, KERN DS-A02, **€ 30,-**
- 2 **Set for underfloor weighing**, for models with weighing plate size B, can be retrofitted, KERN DS-A01, **€ 200,-**
- **Rechargeable battery pack external**, operating time up to 25 hours with backlight, charging time approx. 10 h, can be retrofitted, KERN KS-A01, **€ 180,-**
- **Rechargeable battery pack internal**, operating time up to 10 hours with backlight, charging time approx. 10 h, can be retrofitted, KERN KB-A01N, **€ 50,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD: CAL EXT · RS 232 · PCS · SUM (A) · PERCENT · UNIT · MOVE · MULTI (B) · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION: UNDER (only B) · ACCU · DAkkS +3 DAYS

FACTORY: M +3 DAYS (only DS-M)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Reproducibility g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options Verification MII KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
DS 3K0.01S	3	0,01	–	0,02	0,01	5,1	A	**640,-**	–	–	963-127	72,-
DS 5K0.05S	5	0,05	–	0,05	0,05	5,1	A	**560,-**	–	–	963-127	72,-
DS 8K0.05	8	0,05	–	0,05	0,05	7,5	B	**550,-**	–	–	963-128	88,-
DS 10K0.1S	10	0,1	–	0,1	0,1	4,5	A	**530,-**	–	–	963-128	88,-
DS 16K0.1	16	0,1	–	0,1	0,1	7,5	B	**550,-**	–	–	963-128	88,-
DS 20K0.1	20	0,1	–	0,1	0,1	7,5	B	**580,-**	–	–	963-128	88,-
DS 30K0.1	30	0,1	–	0,2	0,1	7,5	B	**610,-**	–	–	963-128	88,-
DS 30K0.1L	30	0,1	–	0,2	0,1	9,5	C	**700,-**	–	–	963-128	88,-
DS 36K0.2	36	0,2	–	0,2	0,2	7,5	B	**550,-**	–	–	963-128	88,-
DS 36K0.2L	36	0,2	–	0,2	0,2	9,5	C	**660,-**	–	–	963-128	88,-
DS 60K0.2	60	0,2	–	0,4	0,2	9,5	C	**740,-**	–	–	963-129	105,-
DS 65K0.5	65	0,5	–	0,5	0,5	9,5	C	**700,-**	–	–	963-129	105,-
DS 100K0.5	100	0,5	–	0,5	0,5	9,5	C	**740,-**	–	–	963-129	105,-
DS 150K1	150	1	–	1	1	9,5	C	**740,-**	–	–	963-129	105,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
DS 65K1M	65	1	10	1	1	9,5	C	**790,-**	965-218	110,-	963-129	105,-

IP protected platform scale KERN SFE

1

2

3

Platform scale with dust and spray protection IP65 and EC type approval [M]

Features

- Platform scale protected to IP65 with stainless steel display device, for industrial applications, hygienic and easy to clean
- 1 **Platform:** weighing plate stainless steel, painted steel base, protection against dust and water splashes IP65, silicone-coated aluminium load cell
- **Display device:** stainless steel, protection against dust and water splashes IP65, for industrial applications, hygienic and easy to clean, flexible positioning, e.g. free-standing or mounted to the wall. For details see page 148, KERN KFE-TM
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels (only for non-verified models)

Technical data

- Large backlit LCD display, digit height 22 mm
- Weighing plate dimensions, stainless steel, WxDxH
  A 300x240x110 mm
  B 400x300x128 mm
  C 500x400x137 mm
  D 650x500x142 mm
- Dimensions of display device WxDxH 195x118x83 mm
- Cable length of display device approx. 3 m
- Rechargeable battery pack internal, standard, operating time up to 35 h without backlight, charging time approx. 12 h, can be re-ordered, KERN VFB-A02, **€ 40,-**
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Tare pan made of stainless steel**, ideal for weighing loose screws, small parts etc., WxDxH 370x240x20 mm, KERN RFS-A02, **€ 55,-**
- **Stand** to elevate display device, must be ordered at purchase for models with weighing plate size
  A, B, C, D: 2 height of stand approx. 200 mm, KERN SFE-A01, **€ 55,-**
  B, C, D: 3 height of stand approx. 400 mm, KERN SFE-A02, **€ 55,-**
  C, D: 3 height of stand approx. 600 mm, KERN SFE-A03, **€ 60,-**

09

STANDARD

OPTION

FACTORY

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options Verification KERN	 €	 DAkkS Calibr. Certificate KERN	 €
SFE 6K-3M	6	2	2	40	6,5	A	**380,-**	965-228	55,-	963-128	88,-
SFE 15K5IPM	15	5	5	100	6,5	A	**360,-**	965-228	55,-	963-128	88,-
SFE 10K-3LM	15	5	5	100	8	B	**420,-**	965-228	55,-	963-128	88,-
SFE 30K10IPM	30	10	10	200	6,5	A	**360,-**	965-228	55,-	963-128	88,-
SFE 60K20IPM	60	20	20	400	8	B	**410,-**	965-229	93,-	963-129	105,-
SFE 60K-2LM	60	20	20	400	14,5	C	**520,-**	965-229	93,-	963-129	105,-
SFE 100K-2M	150	50	50	1000	8	B	**420,-**	965-229	93,-	963-129	105,-
SFE 100K-2LM	150	50	50	1000	14,5	C	**520,-**	965-229	93,-	963-129	105,-
SFE 100K-2XLM	150	50	50	1000	20	D	**720,-**	965-229	93,-	963-129	105,-
SFE 300K-1LM	300	100	100	2000	20	D	**720,-**	965-229	93,-	963-129	105,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

IP protected platform scale KERN IXS

Platform scale with stainless steel display device with IP68 rating, XL-display und EC type approval [M] – now also as high resolution version with high-resolution display

Piece-counting function

Durable stainless steel weighing plate

Stainless steel display device with IP67 protection, hygienic and easy to clean

IP protected platform scale KERN IXS

1

2

3

Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **Display device:** Stainless steel, very high class of protection against dust and water IP68, for industrial applications, hygienic and easy to clean, with integrated power supply. Wall mount standard. For additional information see page 148, KERN KXS-TM
- 1 **Flexible positioning of display device:** e.g. free-standing or mounted to the wall
- **Superior display size:** digit height 55 mm. Bright backlight for easy reading of weighing results, even in poor lighting conditions
- 2 **Platform:** weighing plate stainless steel, substructure in wing design, extremely resistant to bending, steel, lacquered, protection against dust and water splashes IP65, silicone-coated aluminium load cell
- **ESD drain to protect against electrostatic discharge** e.g. for electrostatically-charged weighing objects or people who work with the scale
- Thanks to the RS-232, RS-485 and Bluetooth (optional) interfaces, the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer

Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel, WxDxH
  A 300x240x86 mm, B 400x300x89 mm
  C 500x400x123 mm
  D 650x500x133.5 mm
- Dimensions of display device WxDxH 232x170x80 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Stand**, can be retrofitted, for models with weighing plate size
  A - D: height of stand approx. 200 mm, KERN IXS-A02, **€ 70,-**
  B - D: height of stand approx. 400 mm, KERN IXS-A03, **€ 75,-**
  C - D: height of stand approx. 600 mm, KERN IXS-A04, **€ 85,-**
- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, must be ordered at purchase, KERN KXS-A04, **€ 40,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 85,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KXS-A02, **€ 110,-**
- **Foot switch**, must be ordered at purchase, for details see page 181, KERN KXS-A03, **€ 70,-**
- **Suitable printers** see page 177 ff.

STANDARD

CAL EXT | PCS | SUM | TOL | MOVE | IP 65 [2] | IP 68 [1] | INOX | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

FACTORY

RS 232 | RS 485 | BT | ACCU | M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options Verification KERN	 €	DAkkS Calibr. Certificate KERN	 €
IXS 6K-4 NEW	6	0,2	–	–	5,1	A	**590,-**	–	–	963-128	88,-
IXS 10K-4 NEW	15	0,5	–	–	5,1	A	**590,-**	–	–	963-128	88,-
IXS 10K-4L NEW	15	0,5	–	–	10,5	B	**590,-**	–	–	963-128	88,-
IXS 30K-3 NEW	30	1	–	–	10,5	B	**590,-**	–	–	963-128	88,-
IXS 30K-3L NEW	30	1	–	–	20,5	C	**720,-**	–	–	963-128	88,-
IXS 60K-3 NEW	60	2	–	–	10,5	B	**590,-**	–	–	963-129	105,-
IXS 60K-3L NEW	60	2	–	–	20,5	C	**720,-**	–	–	963-129	105,-
IXS 100K-3 NEW	150	5	–	–	20,5	C	**720,-**	–	–	963-129	105,-
IXS 100K-3L NEW	150	5	–	–	35	D	**740,-**	–	–	963-129	105,-
IXS 300K-2 NEW	300	10	–	–	35	D	**740,-**	–	–	963-129	105,-
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].											
IXS 6K-3M	3 | 6	1 | 2	1 | 2	20 | 40	5,1	A	**500,-**	965-228	55,-	963-128	88,-
IXS 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	5,1	A	**500,-**	965-228	55,-	963-128	88,-
IXS 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	10,5	B	**590,-**	965-228	55,-	963-128	88,-
IXS 30K-2M	15 | 30	5 | 10	5 | 10	100 | 200	10,5	B	**590,-**	965-228	55,-	963-128	88,-
IXS 30K-2LM	15 | 30	5 | 10	5 | 10	100 | 200	20,5	C	**720,-**	965-228	55,-	963-128	88,-
IXS 60K-2M	30 | 60	10 | 20	10 | 20	200 | 400	10,5	B	**590,-**	965-229	93,-	963-129	105,-
IXS 60K-2LM	30 | 60	10 | 20	10 | 20	200 | 400	20,5	C	**720,-**	965-229	93,-	963-129	105,-
IXS 100K-2M	60 | 150	20 | 50	20 | 50	400 | 1000	20,5	C	**720,-**	965-229	93,-	963-129	105,-
IXS 100K-2LM	60 | 150	20 | 50	20 | 50	400 | 1000	35	D	**790,-**	965-229	93,-	963-129	105,-
IXS 300K-2M	150 | 300	50 | 100	50 | 100	1000 | 2000	35	D	**790,-**	965-229	93,-	963-129	105,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											

NEW New model

Industrial platform scale KERN IKT

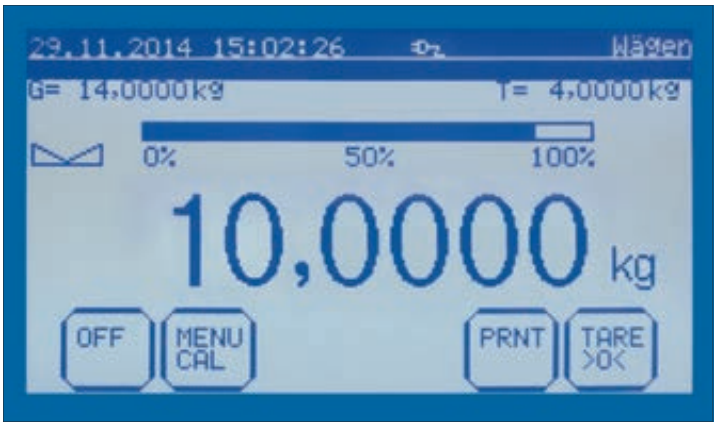
PREMIUM ★★★

Alibi memory

- Ring memory for up to 49,152 measuring results (744 measuring results per day!)
- Saved measuring results cannot be changed or cleared. If the maximum memory capacity is reached, then the oldest value will be overwritten
- In addition to the measuring result, the date, time, tare value, a sequential number and the serial number of the balance are also saved.
- Saved measuring results can be searched and recalled easily
- The alibi memory can also be used for applications which do not require verification
- Complies with WELMEC 2.5

Touchscreen platform scale with enormous range of functions, available also with EC type approval [M]

09



Display at full size, operating mode weighing

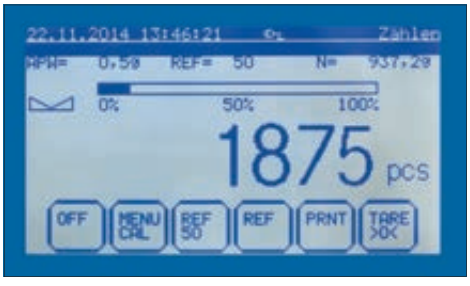
Innovative touchscreen: touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading

Advantages:
- The menu and processes are self-explanatory
- No more errors or lost time through keys wich have several functions assigned to them or unclear markings
- Large keys, which can also be operated, when wearing gloves
- More efficient, faster and safer working

Platform: Weighing plate stainless steel, painted steel base A, B, D, aluminium casting D, protection against dust and water splashes IP65, silicone-coated aluminium load cell

Easy entering of text and values
e.g. item descriptions, user name, weights of tare containers, etc. using the large keypad

80 memories for each mode
e.g. for checkweighing, PRE-TARE, reference weight, target weight for dispensing etc.



Professional counting function
All relevant counting information at a glance, such as, e.g., reference weight, reference quantity, total count, total weight, tare container weight, available weighing range and much more

Industrial platform scale KERN IKT

Features

- If one recipe ingredient is overweight, then the **practical recipe adjustment function** for when dosages are exceeded automatically calculates the new target weights of the other ingredients. The actual and target values and the proportionate percentage can then be printed
- **Multiplier function:** recipes with the ingredient weights recorded as percentage values can easily be replicated by entering a new target weight. The ideal solution for the preparation of larger containers, bulk packs etc.
- **Rapid function** for shortened stabilisation time with reduced readout
- **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves etc.

Technical data

- Backlit LCD graphic display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm, WxH 108x74 mm)
- Weighing plate dimensions, stainless steel, WxDxH
  A 228x228x90 mm
  B 318x308x75 mm
  C 450x350x115 mm, see enlarged picture
  D 650x500x142 mm
- Dimensions of display device WxDxH 200x155x68 mm
- Cable length of display device for weighing plate size, A approx. 1 m, B, D approx. 2 m, C approx. 0,6 m
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard. Can be re-ordered, scope of delivery: 5 items, KERN IKT-A01, **€ 25,-**
- **Rechargeable battery pack external**, operating time up to 20 h without backlight, charging time approx. 10 h, can be retrofitted, not for IKT-M, KERN KS-A01, **€ 180,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04, **€ 250,-**
- **RS-232/Ethernet adapter**, to connect balances with an RS-232 interface to a network via Ethernet, for details see page 180, KERN YKI-01, **€ 390,-**
- **RS-232/USB adapte**, to connect peripheral devices with USB connection, for details see page 181, KERN AFH 12, **€ 85,-**
- **Set for underfloor weighing**, only for models with weighing plate size B, KERN DS-A01, **€ 200,-**
- **Stand** to elevate display device, height of stand approx. 480 mm, only for models with weighing plate size B, C, KERN IKT-A06, **€ 100,-**
- **Wall mount** for display device, KERN IKT-A03, **€ 35,-**
- **Suitable printers** see page 177 ff.

Modes

① Weighing
② Counting
③ Dispensing
④ Recipe weighing
⑤ Checkweighing
⑥ Totalising with daily total
⑦ Percentage determination
⑧ Animal weighing
⑨ Surface weight
⑩ Density determination, only with B
⑪ Rapid function, not for

Functions

- Capacity display, with ① - ②, ⑤ - ⑦, ⑨ - ⑪
- Dispensing aid (subtractive/additive), with ③, ④
- Net/gross display, permanent, with ①, ③ - ⑤, ⑧ - ⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ① - ⑦, ⑪
- Input of item or batch description, operator etc., with ① - ⑦
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m², or similar, with ⑨
- Date/time, with ① - ⑪
- Statistical function, with ①
- GLP printout, with ① - ⑪
- Individual formatting of up to 16 printer forms, recipes, operating mode master data in MS Excel, import via RS-232, for examples, see the internet, with ① - ⑪

09

STANDARD: CAL EXT (ILT-NM), MEMORY, ALIBI, RS 232, SWITCH, PCS, RECIPE (B), SUM (A), PERCENT, UNIT, TOL, MOVE, MULTI (B), DMS, 1 DAY, 3 YEARS WARRANTY

OPTION: ACCU (not IKT-M), UNDER (B), DAkkS +3 DAYS

FACTORY: M +3 DAYS (only IKT-M)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options: Verification MID KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
IKT 6K0.1	6	0,1	–	–	0,1	7,5	B	**830,-**	–	–	963-128	88,-
IKT 12K0.2	12	0,2	–	–	0,2	7,5	B	**830,-**	–	–	963-128	88,-
IKT 30K0.5	30	0,5	–	–	0,5	7,5	B	**830,-**	–	–	963-128	88,-
IKT 60K1L	60	1	–	–	1	9,5	C	**1050,-**	–	–	963-129	105,-
IKT 120K2L	120	2	–	–	2	9,5	C	**1050,-**	–	–	963-129	105,-
IKT 150K2XL	150	2	–	–	2	20	D	**1200,-**	–	–	963-129	105,-
IKT 300K5XL	300	5	–	–	5	20	D	**1200,-**	–	–	963-129	105,-
High-resolution display												
IKT 3K0.01S	3	0,01	–	–	0,01	5,1	A	**920,-**	–	–	963-127	72,-
IKT 8K0.05	8	0,05	–	–	0,05	7,5	B	**850,-**	–	–	963-128	88,-
IKT 10K0.1S	10	0,1	–	–	0,1	5,1	A	**850,-**	–	–	963-128	88,-
IKT 16K0.1	16	0,1	–	–	0,1	7,5	B	**850,-**	–	–	963-128	88,-
IKT 30K0.1	30	0,1	–	–	0,1	7,5	B	**850,-**	–	–	963-128	88,-
IKT 30K0.1L	30	0,1	–	–	0,1	9,5	C	**1150,-**	–	–	963-128	88,-
IKT 36K0.2	36	0,2	–	–	0,2	7,5	B	**850,-**	–	–	963-128	88,-
IKT 36K0.2L	36	0,2	–	–	0,2	9,5	C	**1050,-**	–	–	963-128	88,-
IKT 60K0.2L	60	0,2	–	–	0,2	9,5	C	**1120,-**	–	–	963-129	105,-
IKT 65K0.5L	65	0,5	–	–	0,5	9,5	C	**1050,-**	–	–	963-129	105,-
IKT 100K0.5L	100	0,5	–	–	0,5	9,5	C	**1150,-**	–	–	963-129	105,-
IKT 150K1L	150	1	–	–	1	9,5	C	**1150,-**	–	–	963-129	105,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
IKT 6K1M	6	1	1	20	1	7,5	B	**990,-**	950-128	55,-	963-128	88,-
IKT 12K2M	12	2	2	40	2	7,5	B	**990,-**	950-128	55,-	963-128	88,-
IKT 30K5M	30	5	5	100	5	7,5	B	**1010,-**	950-128	55,-	963-128	88,-
IKT 60K10LM	60	10	10	200	10	9,5	C	**1250,-**	950-129	93,-	963-129	105,-
IKT 120K20LM	120	20	20	400	20	9,5	C	**1250,-**	950-129	93,-	963-129	105,-

Platform scale KERN ILT

PREMIUM ★★★

Note for information on further useful functions for this range, please see pages 6 and 7

KERN ILT-BAM

Modes
① Weighing
② Counting
③ Percentage determination
④ Dispensing
⑤ Recipe weighing
⑥ Density determination
⑦ Animal weighing

Functions
- Capacity display, with ① – ⑦
- Dispensing assistance, with ④, ⑤
- Net/gross display, permanent, with ① – ⑦
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ① – ⑦
- Input of item or batch description, operator etc., with ① – ⑦
- Freely programmable weighing unit, with ① – ⑦
- Date/time, with ① – ⑦
- Statistical function, with ① – ⑦
- GLP printout, with ① – ⑦
- Individual formatting with ① – ⑦

KERN ILT-BAM

KERN ILT-NM

KERN ILT-GAM

09

Modern premium touchscreen platform scale with the complete range of functions for demanding processes

User-friendly piece-counting function: creation and recall items to be counted from the database with all relevant additional data such as piece weight, name, price (for internal valuation), reference quantity, tare container weight, barcode, item image etc. Also integrated: automatic reference optimisation, correction of reference weights, freely selectable reference quantity and much more
Note: on the basis of the KERN ILT range, you can put together a wide range of high-performance counting systems - your KERN product specialist will be pleased to advise you

Backlit and touch-sensitive LCD display with digit height 21 mm, screen diagonal 5,7" (145 mm), WxH 115x86 mm. Dimensions of display device WxDxH 215x156x71 mm. Thanks to the interactive touch display, the menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient functionality

Intuitive operation, increases efficiency and saves costs: Easy capture of item data at the PC, call up of items on the balance using the connected barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory.

1

Identification by RFID: rapid and secure identification of users, items, vehicles, etc. using the optional RFID transponder card reader. The data can be read and edited (suitable for ILT-BAM, -GAM, KXE-TAM)

2

Item recognition using the optional barcode scanner is possible, see accessories. Ideal for rapid recording of items, e.g. as part of a stocktake or to record recipe ingredients as part of a recipe etc.

Platform scale KERN ILT

Features

- **Convenient recipe-weighing:** complete recipes with all recipe ingredients and associated target values, names, tolerances, tare weights etc. can be stored. If there is an excess amount of one recipe ingredient the practical back calculation function automatically calculates the new target weights of the other ingredients
- **Multiplier function:** recipes with the ingredient weights recorded as percentage values can easily be replicated by entering a new target weight. The ideal solution for the preparation of larger containers, bulk packs etc.
- **Best-before dates** can be stored and printed for each item
- **Statistical function** for statistical analysis of series of measurements
- **User-friendly batch management** with batch master and batch number assignment, classification, batch derivation, batch determination, batch status management, shelf-life processing, documentary, original and WIP batches, batch-specific units of measure, batch where-used list
- **Individual user settings can be stored:**
  - User name and number
  - Password
  - Menu language
  - User profile
  - Additional guest mode for users without log-in
  - Authorisations
- **Enormous database** for thousands of weighing results, items, recipes, recipe ingredients, container weights, user data etc. ILT-BAM, -GAM: 8 GB, ILT-NM,-C: 1 GB
- **Alibi memory:** paperless archive of weighing results, see page 214
- **Electronic level indicator** continuously checks the position of the balance, sounds an alarm when the device is out of balance and gives visual instructions on how to correct the situation (only ILT-NM, -C)
- **High level of process reliability:** you can define limit values for selected parameters, such as temperature, levelling, minimum load, adjustment, etc. When the value limit exceeds or falls below, a warning message will be issued and this can be stored with the measuring result
- **Individual print formats:** Printouts can be individually adjusted depending on operating mode, application or your own requirements, directly at the balance or the PC.

Technical data

- Cable length of display device ILT-BAM approx. 2,5 m; ILT-GAM, -NM, -C approx. 1 m
- Permissible ambient temperature
  ILT-NM, -BAM: 15 °C / 35 °C
  ILT-GAM -10 °C / 40 °C

Accessories

- only -GAM: **Protective working cover** over the display device standard. Can be re-ordered, scope of delivery: 5 items, KERN ILT-A02S05, **€ 19,-**
- **Transponder card reader**, RFID technology, dimensions WxDxH100x135x30 mm, for details see page 186, KERN KET-A05, **€ 450,-**
- **Transponder cards**, 10 pieces, for details see page 186, KERN KET-A08, **€ 65,-**
- 2 **Barcode scanner**, hand-held version, dimensions WxDxH 152x84x63 mm, details see page 184, Variant RS-232, KERN PET-A05, **€ 350,-**
  Variant USB, KERN PET-A09, **€ 350,-**
- only-BAM,-GAM: **Signal lamp** for visual support of weighing with tolerance range. For details see page 187, KERN KET-A10, **€ 270,**
- **Wall mount** for display device, dimensions WxDxH 135x148x110 mm, for details see page 184, KERN KET-A02, **€ 190,-**
- **Second display**, dimensions WxDxH 150x34x80 mm, for details see page 184, KERN KET-A03, **€ 210,-**
- **Large display**, stainless steel, digit height 111,7 mm, dimensions WxDxH 635x195x48 mm, for details see page 184, KERN KET-A06, **€ 1450,-**
- **Analogue/Digital converter** to connect up to two platforms to the display device, for details see page 187, KERN KET-A01, **€ 350,-**
- **Label printer**, software for easy editing of (adhesive) labels included, for details see page 184
  thermodirect: KERN PET-A13, **€ 980,-**
  thermotransfer and thermodirect: KERN PET-A14, **€ 1000,-**
- **Software for database management**, for convenient maintenance of item data at the PC. For details see page 184, KERN KET-A04, **€ 300,-**
- **Cable with special length**, between display device and platform, for verified models which must be ordered at the time of purchase, KERN ILT-A03, **€ 250,-**
- **RS-232/USB adapter**, to connect peripheral devices with USB connection, for details see page 181, KERN AFH 12, **€ 85,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

OPTION

FACTORY

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Weighing plate mm	Price excl. of VAT ex works €	Options Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
ILT 6K-3GAM	3 | 6	1 | 2	1 | 2	40	230x230	**2200,-**	965-228	55,-	963-128	88,-
ILT 6K-4BAM	6	0,1	1	5	195x195	**2200,-**	965-217	77,-	963-128	88,-
ILT 10K-3GAM	6 | 15	2 | 5	2 | 5	40	300x240	**1900,-**	965-228	55,-	963-128	88,-
ILT 10K-3LGAM	6 | 15	2 | 5	2 | 5	40	400x300	**1870,-**	965-228	55,-	963-128	88,-
ILT 10K-5NM	10	0,01	0,1	0,5	347x259	**3600,-**	965-217	77,-	963-128	88,-
ILT 30K-2GAM	15 | 30	5 | 10	5 | 10	200	400x300	**2200,-**	965-228	55,-	963-128	88,-
ILT 60K-2GAM	30 | 60	10 | 20	10 | 20	400	400x300	**2200,-**	965-229	93,-	963-129	105,-
ILT 60K-2LGAM	30 | 60	10 | 20	10 | 20	400	500x400	**2150,-**	965-229	93,-	963-129	105,-
ILT 35K-4NM	35	0,1	1	5	347x259	**4200,-**	965-217	77,-	963-128	88,-
ILT 50K-4C	50	0,1	–	–	347x259	**5500,-**	–	–	963-128	88,-
ILT 60K-3BAM	60	1	10	50	500x400	**2400,-**	965-218	110,-	963-129	105,-
ILT 100K-2GAM	60 | 150	20 | 50	20 | 50	1000	500x400	**2100,-**	965-229	93,-	963-129	105,-
ILT 100K-2LGAM	60 | 150	20 | 50	20 | 50	1000	650x500	**2200,-**	965-229	93,-	963-129	105,-
ILT 300K-2GAM	150 | 300	50 | 100	50 | 100	2000	650x500	**2200,-**	965-229	93,-	963-129	105,-

Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

1

High-resolution industrial scale, available also with internal adjustment and EC type approval [M]

09

Features

- **Laboratory scale with separate display device:** Ideal when working in a glove bag or under laboratory fume hoods. Particularly practical for weighing toxic, volatile or contaminated substances
- 1 Particularly suitable for compact, very dense samples, e.g. those in road construction or the construction industry
- **Robust construction of platform** ensures stability, protects the weighing system and is durable enough for with everyday use
- 2 only KERN ILJ-C: **Automatic internal adjustment** in the case of temperature change ≥ 3 °C and time-controlled every 3 hours
- **Alibi memory:** paperless archive of weighing results, see page 214
- **Internal memory** for up to 999 weighing results, 1000 items or recipe ingredients, 100 container weights, 100 users
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Weighing with tolerance range (checkweighing):** a visual signal helps with portioning, dispensing or grading
- **Totalising** of weights (manual/automatic)
- **GLP/ISO record keeping of weight values** with date, time, user ID, project and serial number in combination with an appropriate KERN printer
- **Density determination** of liquids and solids. Step by step user guidance on display. The density is indicated directly on the display. Note: For interesting facts about density determination see page 214
- **Hook** for underfloor weighing standard

Technical data

- Large backlit LCD display, digit height 18 mm
- Dimensions of weighing plate WxD 347x259 mm
- Dimensions of display device WxDxH 270x165x115 mm
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over the display device, standard. Can be re-ordered, scope of delivery: 5 items, KERN ILS-A02, **€ 25,-**
- **WLAN interface** for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN PLJ-A06, **€ 135,-**
- **Alibi memory software** for viewing and saving data from the alibi memory onto a PC connected to the system, KERN PET-A16, **€ 300,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL INT 2 · CAL EXT only ILS-C · MEMORY · ALIBI only ILJ-C · RS 232 · PCS · SUM · PERCENT · UNIT · TOL · UNDER · MULTI · FORCE · 1 DAY · 3 YEARS WARRANTY · DAkkS +3 DAYS

OPTION: WLAN

FACTORY: +3 DAYS only ILJ

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Price excl. of VAT ex works €	Options Verification MII KERN	 €	 DAkkS Calibr. Certificate DKD KERN	 €
ILS 30K-4C	30	0,1	–	–	14,5	**1790,-**	–	–	963-128	88,-
ILS 50K-4C	50	0,1	–	–	14,5	**2320,-**	–	–	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
ILJ 25K-4CM	25	0,1	1	5	19,9	**2050,-**	965-217	77,-	963-128	88,-

Robust aid for weighing large loads

KERN offers a carefully coordinated range from affordable entry level models, to practical built-in solutions, up to the top level verified models made of stainless steel. Their common feature is the long-lasting industrial quality as well as the high level of protection against dust and spray.

The installation, startup, and possible verification of floor, pallet, and drive-through scales require specialised knowledge, which is the basis for a successful sale. Please ask for our "Floor scale info sheet".

High-capacity scales – ideal for piece counting with large item quantities

The weighing ranges of bench counting scales are often not sufficient to count large quantities, units, palletised items etc. This is where high-performance counting systems are employed as these combine a high-precision reference balance with a high-capacity bulk scale, such as e.g. floor scales, pallet scales or drive-through scales. Your personal KERN customer consultant will be happy to help you setting up the right high-capacity counting system.

Individuality is the trump card

Do you have any special requests, which are not covered by our extensive floor scale range? Then why not configure your ideal model yourself, it's quick, individual and affordable.

Of course we can also offer you the complete service and put the required scale combination together for you, including verification. All further details can be found from page 177 ff. or ask your personal customer service agent, he will be pleased to advise you

Your product specialist's recommendation:

- **Massive steel weighing bridge with IP65 protection**
- **Stainless steel display device with IP68 protection**
- **Screwed on weighing plate, easy to remove, hygienic and easy to clean**

Stephan Ade
Product specialist Floor scales/Pallet scales/
Drive-through scales

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Fax +49 [0] 7433 9933 - 29121
ade@kern-sohn.com

from € 1350,-

KERN BXS

▸ page 126

Quick-Finder Floor scales/Pallet scales/Drive-through scales

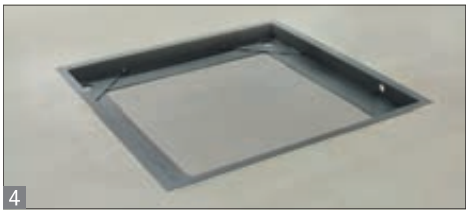
Read-out [d]	Weighing range [Max]	Weighing plate mm	Model KERN	Price excl. of VAT ex works €	Page	DAYS *	M	CAL EXT	RS 232	PCS	IP	INOX	ACCU
							For an explanation on the pictos, see the front flap						
200 g	600 kg	840x1190x90	**UFB 600K200M**	**890,-**	134	2	○	●	●	●	●		○
200 g	600 kg	1000x1000x85	**BFS 600K-1SNM**	**1050,-**	127	5	○	●	●	●			○
200 g	600 kg	1000x1000x85	**BFA 600K-1SNM**	**1110,-**	128	5	○	●	○	●	●	●	○
200 g	600 kg	1000x1000x85	**BFB 600K-1SNM**	**1110,-**	125	2	○	●	●	●	●		○
200 g	600 kg	840x1190x90	**UFC 600K-1M**	**1280,-**	135	5	○	●	○	●	●		
200 g	600 kg	1600x1200x78	**NFB 600K200M**	**1290,-**	137	2	○	●	●	●	●		○
200 g	600 kg	1000x1000x80	**BXS 600K-1SM**	**1350,-**	126	2	○	●	○	●	●	●	○
200 g	600 kg	1500x1250x85	**BFB 600K-1NM**	**1420,-**	125	2	○	●	●	●	●		○
200 g	600 kg	1500x1250x85	**BFS 600K-1NM**	**1450,-**	127	5	○	●	●	●			○
200 g	600 kg	1800x1400x78	**NFB 600K200LM**	**1450,-**	137	2	○	●	●	●	●		○
200 g	600 kg	1500x1250x85	**BFA 600K-1NM**	**1490,-**	128	5	○	●	○	●	●	●	○
200 g	600 kg	1500x1250x80	**BXS 600K-1M**	**1650,-**	126	2	○	●	○	●	●	●	○
200 g	600 kg	1000x1000	**NBB 600K-1M**	**1670,-**	138	5	○	●	○	●	●		
200 g	600 kg	1200x1200	**NBB 600K-1LM**	**1770,-**	138	5	○	●	○	●	●		
200 g	600 kg	840x1190x90	**UFN 600K200IPM**	**1700,-**	136	2	○	●	○	●	●	●	○
200 g	600 kg	1000x1000x80	**BFN 600K-1SM**	**2650,-**	131	2	○	●	○	●	●	●	●
200 g	600 kg	1000x1000	**NFN 600K–1M**	**2880,-**	139	2	○	●	○	●	●	●	○
200 g	600 kg	1000x1000x80	**BAN 600K-1SM**	**3050,-**	130	2	○	●	○	●	●	●	○
200 g	600 kg	1000x1000x85	**BBB 600K-1SNM**	**3500,-**	129	23	○	●	●	●	●	●	
200 g	600 kg	1500x1250x85	**BBB 600K-1NM**	**3900,-**	129	23	○	●	●	●	●	●	
200 g	600 kg	1000x1000x80	**BBN 600K-1SM**	**5100,-**	132	23	○	●	●	●	●	●	
500 g	1,5 t	1200x120x100	**UFA 1.5T0.5**	**850,-**	133	2		●	●	●	●		○
500 g	1,5 t	840x1190x90	**UFB 1.5T0.5M**	**890,-**	134	2	○	●	●	●	●		○
500 g	1,5 t	1000x1000x85	**BFB 1T-4SNM**	**1050,-**	125	2	○	●	●	●	●		○
500 g	1,5 t	1000x1000x85	**BFS 1T-4SNM**	**1050,-**	127	5	○	●	●	●			○
500 g	1,5 t	1000x1000x85	**BFA 1T-4SNM**	**1140,-**	128	5	○	●	○	●	●	●	○
500 g	1,5 t	840x1190x90	**UFC 1T-1M**	**1280,-**	135	5	○	●	○	●	●		
500 g	1,5 t	1600x1200x78	**NFB 1.5T0.5M**	**1290,-**	137	2	○	●	●	●	●		○
500 g	1,5 t	1000x1000x80	**BXS 1.5T-4SM**	**1350,-**	126	2	○	●	○	●	●	●	○
500 g	1,5 t	1500x1250x80	**BFB 1T-4NM**	**1450,-**	125	2	○	●	●	●	●		○
500 g	1,5 t	1500x1250x85	**BFS 1T-4NM**	**1450,-**	127	5	○	●	●	●			○
500 g	1,5 t	1800x1400x78	**NFB 1.5T0.5LM**	**1460,-**	137	2	○	●	●	●	●		○
500 g	1,5 t	1500x1250x85	**BFA 1T-4NM**	**1540,-**	128	5	○	●	○	●	●	●	○
500 g	1,5 t	1500x1250x80	**BXS 1.5T-4M**	**1650,-**	126	2	○	●	○	●	●	●	○
500 g	1,5 t	1000x1000	**NBB 1T-1M**	**1660,-**	138	5	○	●	○	●	●		
500 g	1,5 t	840x1190x90	**UFN 1.5T0.5IPM**	**1700,-**	136	2	○	●	○	●	●	●	○
500 g	1,5 t	1200x1200	**NBB 1T-1LM**	**1860,-**	138	5	○	●	○	●	●		
500 g	1,5 t	1000x1000x80	**BFN 1T-4SM**	**2650,-**	131	2	○	●	○	●	●	●	●
500 g	1,5 t	1000x1000	**NFN 1.5T–4M**	**2880,-**	139	2	○	●	○	●	●	●	○
500 g	1,5 t	1000x1000x80	**BAN 1T-4SM**	**3050,-**	130	2	○	●	○	●	●	●	○
500 g	1,5 t	1500x1250x80	**BFN 1.5T0.5M**	**3350,-**	131	2	○	●	○	●	●	●	●
500 g	1,5 t	1000x1000x85	**BBB 1T-4SNM**	**3500,-**	129	23	○	●	●	●	●	●	
500 g	1,5 t	1500x1250x80	**BAN 1T-4M**	**3750,-**	130	2	○	●	○	●	●	●	○
500 g	1,5 t	1500x1250x85	**BBB 1T-4NM**	**3900,-**	129	23	○	●	●	●	●	●	
500 g	1,5 t	1000x1000x80	**BBN 1T-4SM**	**5100,-**	132	23	○	●	●	●	●	●	
500 g	1,5 t	1500x1250x80	**BBN 1T-4M**	**5800,-**	132	23	○	●	●	●	●	●	
1000 g	3 t	1200x120x100	**UFA 3T1**	**850,-**	133	2		●	●	●	●		○
1000 g	3 t	2000x120x100	**UFA 3T-3L**	**995,-**	133	2		●	●	●	●		○
1000 g	3 t	1500x1250x85	**BFB 3T-3NM**	**1420,-**	125	2	○	●	●	●	●		○
1000 g	3 t	1500x1250x85	**BFS 3T-3NM**	**1450,-**	127	5	○	●	●	●			○
1000 g	3 t	1500x1500x80	**BFB 3T1LM**	**1610,-**	125	2	○	●	●	●	●		○
1000 g	3 t	1500x1250x85	**BFA 3T-3NM**	**1490,-**	128	5	○	●	○	●	●	●	○
1000 g	3 t	1500x1250x80	**BXS 3T-3M**	**1600,-**	126	2	○	●	○	●	●	●	○
1000 g	3 t	1500x1500x80	**BFS 3T-3LM**	**1650,-**	127	5	○	●	●	●			○
1000 g	3 t	1500x1500x80	**BFA 3T-3LM**	**1700,-**	128	5	○	●	○	●	●	●	○
1000 g	3 t	1500x1250x80	**BFN 3T-3M**	**3350,-**	131	2	○	●	○	●	●	●	●
1000 g	3 t	1500x1250x80	**BAN 3T-3M**	**3750,-**	130	2	○	●	○	●	●	●	○
1000 g	3 t	1500x1250x85	**BBB 3T-3NM**	**3900,-**	129	23	○	●	●	●	●	●	
1000 g	3 t	1500x1500x80	**BBB 3T-3LM**	**4100,-**	129	23	○	●	●	●	●	●	
1000 g	3 t	1500x1250x80	**BBN 3T-3M**	**5800,-**	132	23	○	●	●	●	●	●	
2000 g	6 t	1200x163x80	**UFA 6T-3**	**1190,-**	133	2		●	●	●	●		○
2000 g	6 t	2100x160x85	**UFA 6T-3L**	**1490,-**	133	2		●	●	●	●		○
2000 g	6 t	1500x1500x130	**BFB 6T-3M**	**1950,-**	125	2	○	●	●	●	●		○
2000 g	6 t	1500x1500x130	**BFS 6T-3M**	**1950,-**	127	5	○	●	●	●			○
2000 g	6 t	1500x1500x130	**BFA 6T-3M**	**2040,-**	128	5	○	●	○	●	●	●	○
2000 g	6 t	1500x1500x130	**BBB 6T-3M**	**4500,-**	129	23	○	●	●	●	●	●	

□ = News 2016 *For an explanation on the pictos, see the front flap ● = Standard ○ = Option

Floor scale KERN BFB

2

3


4

Weighing bridge with screwed on weighing plate (IP67) and XXL display device, with EC type approval [M]

Features

- 1 **Weighing bridge:** steel, lacquered, weighing plate size C, D corrugated steel plate, protection against dust and water splashes (IP67), 4 silicone-coated steel load cells. Weighing bridge can also be delivered as components without the display device KERN KFP V20 IP67 protection, details see page 151
- 1 **Weighing plate** A B **screwed on from the top**, so it's easy to remove, hygienic and easy to clean
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **Comfortable adjustment of the weighing bridge** from above
- **Display device KERN KFB-TM**, details see page 147
- **Benchtop stand incl. wall mount** for display device as standard
- **Totalising** of weights and piece counts

Technical data

- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions WxDxH
  A 1000x1000x80 mm, B 1500x1250x80 mm
  C 1500x1500x80 mm
  D 1500x1500x130 mm, welded
- Dimensions of display device WxDxH 250x160x58 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard. Can be re-ordered, scope of delivery: 5 items, KERN KFB-A02S05, **€ 35,-**
- 2 **Signal lamp** for visual support of weighing with tolerance range, for details see page 181, KERN CFS-A03, **€ 250,-**
- 3 **Stand** to elevate display device, height of stand 750-1000 mm, KERN BFS-A07, **€ 120,-**
- **Pair of base plates** to fix the weighing bridge to the floor, for models with weighing plate size
  A, B, C KERN BFS-A06N, **€ 60,-**
  D KERN BFS-A10, **€ 60,-**
- 4 **Stable pit frame** for weighing bridge installation, allowing for easy access, for models with weighing plate size WxD
  A 1085x1085 mm, KERN BFS-A03N, **€ 210,-**
  B 1335x1585 mm, KERN BFS-A04N, **€ 250,-**
  C 1585x1585 mm, KERN BFS-A08, **€ 250,-**
- **Rechargeable battery pack internal**, operating time up to 35 h, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01, **€ 35,-**
- **Ascending ramp**, not included, for models with weighing plate size WxDxH
  A 1000x760x85 mm, KERN BFS-A01N, **€ 300,-**
  B 1250x870x85 mm, KERN BFS-A02N, **€ 350,-**
  C 1500x760x85 mm, KERN BFS-A09, **€ 410,-**
  D 1500x750x121 mm, KERN BFS-A11, **€ 500,-**
- **Large display with superior display size**, digit height 76 mm. WxDxH 541x55x180 mm, details see page 181, KERN YKD-A02, **€ 215,-**
- **Cable with special length 15 m**, between display device and platform, for verified models, this must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

Limited tare range with verifiable models C, D (1/6 from [Max])

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD

5

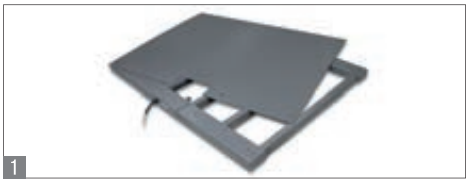
OPTION

FACTORY

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Net weight approx. kg	Dimensions of weighing plate WxDxH mm	Price excl. of VAT ex works €	Options Verification KERN	 €	DAkkS Calibr. Certificate KERN	 €
BFB 600K-1SNM	600	0,2	4	105	A 1000x1000x85	**1110,-**	965-230	132,-	963-130	**165,-**
BFB 600K-1NM	600	0,2	4	136	B 1500x1250x85	**1420,-**	965-230	132,-	963-130	**165,-**
BFB 1T-4SNM	1500	0,5	10	105	A 1000x1000x85	**1050,-**	965-230	132,-	963-130	**165,-**
BFB 1T-4NM	1500	0,5	10	133	B 1500x1250x85	**1450,-**	965-230	132,-	963-130	**165,-**
BFB 3T-3NM	3000	1	20	135	B 1500x1250x85	**1420,-**	965-232	320,-	963-132	**440,-**
BFB 3T1LM	3000	1	20	152	C 1500x1500x80	**1610,-**	965-232	320,-	963-132	**440,-**
BFB 6T-3M	6000	2	40	210	D 1500x1500x130	**1950,-**	965-232	320,-	963-132	**440,-**

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Floor scale KERN BXS



1

Note: For verified models the weighing bridge must be fixed to the floor. Optionally, through an access ramp, a pair of base plates or a pit frame

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Weighing bridge with screwed on weighing plate (IP67) and stainless steel display device (IP68), with EC type approval [M]

Features

- **Industrial quality:** heavy version for tough usage in industrial applications
- 1 **Weighing plate screwed on from the top,** so it's easy to remove, hygienic and easy to clean
- 2 **Weighing bridge:** Lacquered steel, extremely resistant to bending due to material thickness, protection against dust and water splashes IP67, 4 silicone-coated steel load cells. Weighing bridge can also be delivered as components without the display device, KERN KXP V20 IP67, information on page 150
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- 3 **Display device:** stainless steel, protection against dust and water splashes IP68, for industrial applications, hygienic and easy to clean, **with integrated power supply** and superior display size. The display device can also be delivered as a component without the weighing bridge, KERN KXS-TM, information on page 148
- **Benchtop stand incl. wall mount** for display device as standard
- **Totalising** of weights and piece counts
- Thanks to the RS-232, RS 485 and Bluetooth (optional) interfaces, the balance can easily be connected to existing networks. Data exchange between the balance and PC or printer is also made easier

Technical data

- Large backlit LCD display, digit height 55 mm
- Dimensions of display device WxDxH 232x170x80 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Stand** to elevate display device, height of stand 750–1000 mm, KERN YKP-02, **€ 210,-**
- **Ascending ramp,** corrugated steel plate, lacquered, only for models with weighing plate sizes
  A WxDxH 1000x840x85 mm, KERN BXS-A01, **€ 300,-**
  B WxDxH 1250x840x85 mm, KERN BXS-A02, **€ 360,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BXS-A03, **€ 70,-**
- **Rechargeable battery pack internal,** operating time up to 80 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN GAB-A04, **€ 40,-**
- **Bluetooth data interface** for wireless data transfer to PC or Tablets, must be ordered at purchase, KERN KXS-A02, **€ 110,-**
- **Data interface RS-232,** interface cable included, approx. 1.5 m, must be ordered at purchase, KERN KXS-A04, **€ 40,-**
- **Data interface RS-485,** must be ordered at purchase, KERN KXS-A01, **€ 85,-**
- **Foot switches,** must be ordered at purchase, KERN KXS-A03, **€ 70,-**
- **Cable with special length** 15 m, between display device and platform, must be ordered at purchase, KERN BFB-A03, **€ 160,-**
- **Suitable printers** and an extensive accessories range see page 177

STANDARD: CAL EXT · PCS · SUM · TOL · MOVE · IP 67 (2) · IP 68 (3) · INOX · 230 V · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: RS 232 · RS 485 · BT · ACCU · M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Net weight approx. kg	Dimensions of weighing plate WxDxH mm	Price excl. of VAT ex works €	Options Verification M III KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
Complete device consisting of the KERN KXS-TM display device and Weighing bridge KERN KXP V20 IP67										
BXS 600K-1SM	600	0,2	4	105	A 1000x1000x80	**1350,-**	965-230	132,-	963-130	165,-
BXS 600K-1M	600	0,2	4	135	B 1500x1250x80	**1650,-**	965-230	132,-	963-130	165,-
BXS 1.5T-4SM	1500	0,5	20	105	A 1000x1000x80	**1350,-**	965-230	132,-	963-130	165,-
BXS 1.5T-4M	1500	0,5	20	135	B 1500x1250x80	**1650,-**	965-230	132,-	963-130	165,-
BXS 3T-3M	3000	1	20	145	B 1500x1250x80	**1600,-**	965-232	320,-	963-132	440,-

2

3

Note: For verified models the weighing bridge must be fixed to the floor. Optionally by two ascending ramps or two pairs of base plates or by a combination of these two options.
For verifiable models with weighing plate size C, D limited tare range 1/6 of [Max]
! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Floor scale with screwed on weighing plate (IP67), piece-counting function, 99 item memories and EC type approval [M]

Features

- **Industrial quality:** heavy version for tough usage in industrial applications
- 1 **Weighing bridge:** steel, lacquered, extremely resistant to bending due to material thickness, weighing plate size C, D corrugated steel plate welded, protection against dust and water splashes IP67, 4 silicone-coated steel load cells. Weighing bridge can also be delivered as components without the display device, KXP V20 IP67N, for details, see page 151
- 2 **Weighing plate** A, B **screwed on from the top,** so it's easy to remove, hygienic and easy to clean
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **Display device** with large keypad and 3 high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc. when piece counting. The display device can also be delivered as a component without the weighing bridge, KERN KFS-TM
- **Benchtop stand incl. wall mount** for display device as standard
- **99 item memories for master data** such as reference weight, reference quantity, container weight (PRE-TARE) etc. when piece counting
- **Printout with date and time**
- **Totalising** of counting operations

Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions of display device WxDxH 260x150x65 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard. Can be re-ordered, scope of delivery: 5 items, KERN KFB-A02S05**, € 35,-**
- **Rechargeable battery pack internal,** operating time up to 40 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFS-A01**, € 35,-**
- 3 **Stand** to elevate display device, height of stand 750–1000 mm, KERN BFS-A07**, € 120,-**
- **Pair of base plates** to fix the weighing bridge to the floor, for models with weighing plate size
  A, B, C KERN BFS-A06N**, € 60,-**
  D KERN BFS-A10**, € 60,-**
- **Stable pit frame** for weighing bridge installation, allowing for easy access for models with weighing plate size
  A BxT 1085x1085 mm, KERN BFS-A03N**, € 250,-**
  B BxT 1335x1585 mm, KERN BFS-A04N**, € 280,-**
  C BxT 1585x1585 mm, KERN BFS-A08**, € 300,-**
- **Ascending ramp,** not included, for models with weighing plate size
  A WxDxH 1000x750x85 mm, KERN BFS-A01N **, € 300,-**
  B WxDxH 1250x750x85 mm, KERN BFS-A02N**, € 350,-**
  C WxDxH 1500x750x85 mm, KERN BFS-A09**, € 420,-**
  D WxDxH 1500x750x121 mm, KERN BFS-A11**, € 500,-**
- **Cable with special length** 15 m, between display device and platform, must be ordered at purchase, KERN BFB-A03**, € 160,-**

STANDARD: CAL EXT · MEMORY · RS 232 · PCS · SUM · TOL · MOVE · IP 67 · MULTI · 5 DAYS · 3 YEARS WARRANTY
OPTION: DAkkS +3 DAYS
FACTORY: ACCU · M +3 DAYS

1

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Net weight approx. kg	Dimensions of weighing plate WxDxH mm	Price excl. of VAT ex works €	Options: Verification M III KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
Complete device consisting of the KERN KFS-TM display device and Weighing bridge KFP V20 IP67(N)										
BFS 600K-1SNM	600	0,2	4	105	A 1000 x 1000 x 85	**1050,-** ↓	965-230	132,-	963-130	165,-
BFS 600K-1NM	600	0,2	4	135	B 1500 x 1250 x 85	**1450,-** ↓	965-230	132,-	963-130	165,-
BFS 1T-4SNM	1500	0,5	10	105	A 1000 x 1000 x 85	**1050,-** ↓	965-230	132,-	963-130	165,-
BFS 1T-4NM	1500	0,5	10	135	B 1500 x 1250 x 85	**1450,-** ↓	965-230	132,-	963-130	165,-
BFS 3T-3NM	3000	1	20	135	B 1500 x 1250 x 85	**1450,-** ↓	965-232	320,-	963-132	440,-
BFS 3T-3LM	3000	1	20	160	C 1500 x 1500 x 80	**1650,-** ↓	965-232	320,-	963-132	440,-
BFS 6T-3M	6000	2	40	210	D 1500 x 1500 x 130	**1950,-** ↓	965-232	320,-	963-132	440,-

↓ Price reduction

Floor scale KERN BFA

Note: For verified models the weighing bridge must be fixed to the floor. Optionally by two ascending ramps or two pairs of base plates or by a combination of these two options.

For verifiable models with weighing plate size C, D limited tare range 1/6 of [Max]

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Weighing bridge with screwed on weighing plate (IP67) and stainless steel display device (IP68), with EC type approval [M]

Features

- **Industrial quality:** heavy version for tough usage in industrial applications
- 1 **Weighing bridge:** steel, lacquered, weighing plate size C, D corrugated steel plate welded, protection against dust and water splashes (IP67), 4 silicone-coated steel load cells. Weighing bridge can also be delivered as components without the display device, KXP V20 IP67 protection, details see page 151
- 2 **Weighing plate screwed on from the top**, so it's easy to remove, hygienic and easy to clean
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **Display device: KERN KFN-TM**, protection against dust and water splashes IP65 (only when using rechargeable battery pack)
- **Benchtop stand incl. wall mount** for display device as standard

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 5 m
- **Rechargeable battery pack internal**, standard, operating time up to 50 h without backlight, charging time approx. 12 h KERN GAB-A04, **€ 40,-**
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- 3 **Stand** to elevate display device, height-adjustable, height of stand 750-1000 mm, KERN BFS-A07, **€ 120,-**
- **Pair of base plates** to fix the weighing bridge to the floor, for models with weighing plate size
  A, B, C KERN BFS-A06N, **€ 60,-**
  D KERN BFS-A10, **€ 60,-**
- **Ascending ramp** for models with weighing plate size WxDxH
  A 1000x760x85 mm, KERN BFS-A01N, **€ 300,-**
  B 1250x870x85 mm, KERN BFS-A02N, **€ 350,-**
  C 1500x760x85 mm, KERN BFS-A09, **€ 410,-**
  D 1500x750x121 mm, KERN BFS-A11, **€ 500,-**
- 4 **Stable pit frame** for weighing bridge installation, allowing for easy access, for models with weighing plate size WxDxH
  A 1085x1085x80 mm, KERN BFS-A03N, **€ 250,-**
  B 1335x1585x80 mm, KERN BFS-A04N, **€ 280,-**
  C 1500x1500x95 mm, KERN BFS-A08, **€ 280,-**
- **Data interface RS-232**, interface cable included, approx. 1.5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Large display** with superior display size, digit height 76 mm, WxDxH 541x55x180 mm, only in combination with data interface KERN KFN-A01, KERN YKD-A02, **€ 215,-**
- **Cable with special length** 15 m, between display device and platform, must be ordered at purchase, KERN BFB-A03, **€ 160,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

10

STANDARD: CAL EXT · PCS · SUM · TOL · MOVE · IP 65 (3) · IP 67 (2) · INOX (3) · MULTI · DMS · 2 DAYS · 3 YEARS WARRANTY

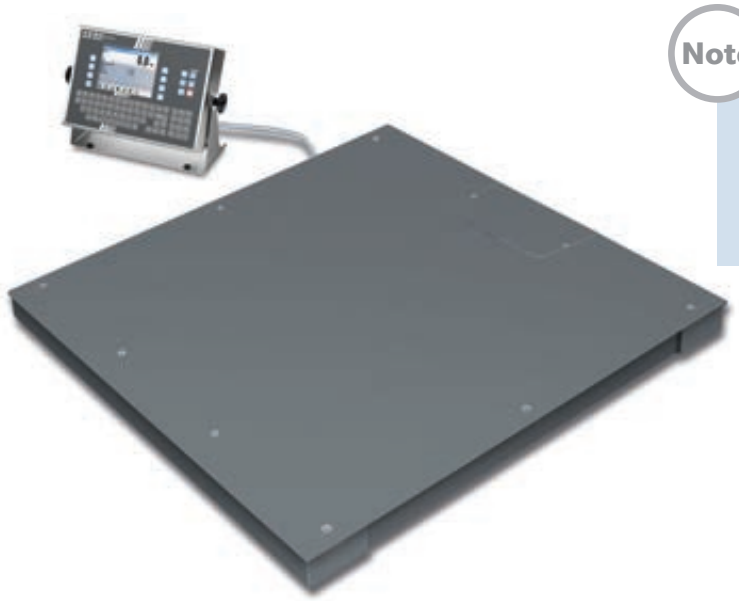
OPTION: DAkkS +3 DAYS

FACTORY: RS 232 · ACCU · M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Net weight approx. kg	Dimensions of weighing plate WxDxH mm	Price excl. of VAT ex works €	Options: Verification M KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
BFA 600K-1SNM	600	0,2	4	105	A 1000x1000x85	**1110,-**	965-230	132,-	963-130	165,-
BFA 600K-1NM	600	0,2	4	135	B 1500x1250x85	**1490,-**	965-230	132,-	963-130	165,-
BFA 1T-4SNM	1500	0,5	10	105	A 1000x1000x85	**1140,-**	965-230	132,-	963-130	165,-
BFA 1T-4NM	1500	0,5	10	135	B 1500x1250x85	**1540,-**	965-230	132,-	963-130	165,-
BFA 3T-3NM	3000	1	20	135	B 1500x1250x85	**1490,-**	965-232	320,-	963-132	440,-
BFA 3T-3LM	3000	1	20	160	C 1500x1500x80	**1700,-**	965-232	320,-	963-132	440,-
BFA 6T-3M	6000	2	40	210	D 1500x1500x130	**2040,-**	965-232	320,-	963-132	440,-

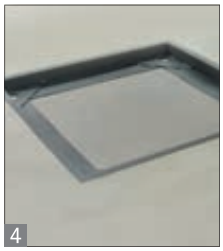
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Floor scale KERN BBB



Note for information on further useful functions for this range, please see pages 6, 7, 149

2


4

PREMIUM ★★★

Note: For verified models the weighing bridge must be fixed to the floor. Optionally by two ascending ramps or two pairs of base plates or by a combination of these two options.

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Weighing bridge with screwed on weighing plate (IP68) and touchscreen display (IP66) with extensive industrial functionality

Features

- **Industrial quality:** heavy version for tough usage in industrial applications
- 1 **Weighing bridge:** steel, lacquered, weighing plate size C D, corrugated steel plate, protection against dust and water splashes (IP67), 4 silicone-coated steel load cells. Weighing bridge can also be delivered as components without the display device, KXP V20 IP67 protection, details see page 150
- 2 **Weighing plate** A B **screwed on from the top**, so it's easy to remove, hygienic and easy to clean
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- 3 **Stainless steel touchscreen display KERN *KEN-TM*** for easy entry and reading e. g. item data, tare weights, reference weights, limit values, etc. Protection against dust and water splashes IP66, details see page 149
- **Benchtop stand incl. wall mount** for display device as standard
- 1 GB large internal memory, 64 MB large RAM memory
- **Alibi memory:** paperless archive of weighing results, details see page 214
- **Up to four platforms can be connected**
- **Password protection**

Technical data

- Bright TFT touch display with digit height 21 mm, screen diagonal 5,7" (approx. 145 mm), WxH 115x86 mm
- Dimensions of display device WxDxH 282x200x76 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Interface cable RS-232**, cable length approx. 2 m, KERN KEN-A01, **€ 80,-**
- **Interface cable USB**, cable length approx. 1,7 m, KERN KEN-A02, **€ 140,-**
- **Stand**, height-adjustable, large three-legged adjustable foot, height of stand 750 - 1000 mm, must be ordered at purchase, KERN YKP-02, **€ 210,-**
- **Pair of base plates** to fix the weighing bridge to the floor, for models with weighing plate size
  A, B, C KERN BFS-A06N, **€ 60,-**
  D KERN BFS-A10, **€ 60,-**
- **Ascending ramp** for models with weighing plate size WxDxH
  A 1000x760x85 mm, KERN BFS-A01N, **€ 300,-**
  B 1250x870x85 mm, KERN BFS-A02N, **€ 350,-**
  C 1500x760x85 mm, KERN BFS-A09, **€ 410,-**
  D 1500x750x121 mm, KERN BFS-A11, **€ 500,-**
- 3 **Stable pit frame** for models with weighing plate size WxDxH
  A 1085x1085x80 mm, KERN BFS-A03N, **€ 250,-**
  B 1335x1585x80 mm, KERN BFS-A04N, **€ 280,-**
  C 1500x1500x95 mm, KERN BFS-A08, **€ 280,-**
- **Large display** with superior display size, KERN KET-A06, **€ 1450,-**
- **Cable with special length** 15 m, between display device and platform, for verified models, this must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- **Analogue/Digital converter**, KERN KET-A01, **€ 350,-**
- **Analogue module**, KERN KEN-A06, **€ 350,-**
- **Relay output**, KERN KEN-A07, **€ 180,-**
- **I/O digital control outputs (8 in/out)**, KERN KEN-A08, **€ 600,-**
- **Module Profibus**, KERN KEN-A09, **€ 250,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

10

STANDARD

CAL EXT · MEMORY · RS 232 · USB · SWITCH · LAN · PCS · SUM · PERCENT · TOL · MOVE · IP 67 (2) · INOX (3) · DMS · 230 V · 23 DAYS · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

FACTORY

DUAL · M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Net weight approx. kg	Dimensions of weighing plate WxDxH mm	Price excl. of VAT ex works €	Options Verification KERN	 €	DAkkS Calibr. Certificate KERN	 €
BBB 600K-1SNM	600	0,2	4	85	A 1000x1000x85	**3500,-**	965-230	132,-	963-130	165,-
BBB 600K-1NM	600	0,2	4	135	B 1500x1250x85	**3900,-**	965-230	132,-	963-130	165,-
BBB 1T-4SNM	1500	0,5	10	105	A 1000x1000x85	**3500,-**	965-230	132,-	963-130	165,-
BBB 1T-4NM	1500	0,5	10	135	B 1500x1250x85	**3900,-**	965-230	132,-	963-130	165,-
BBB 3T-3NM	3000	1	20	135	B 1500x1250x85	**3900,-**	965-232	320,-	963-132	440,-
BBB 3T-3LM	3000	1	20	160	C 1500x1500x80	**4100,-**	965-232	320,-	963-132	440,-
BBB 6T-3M	6000	2	40	210	D 1500x1500x130	**4500,-**	965-232	320,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Floor scale KERN BAN

Note: For verified models the weighing bridge must be fixed to the floor. Optionally by two ascending ramps or two pairs of base plates or by a combination of these two options.

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Stainless steel floor scale with complete dust and spray protection to IP68, extra large weighing bridge and EC type approval [M]

Features

- **Industrial quality:** heavy version for tough usage in industrial applications
- 1 **Weighing bridge:** made entirely of stainless steel, extremely resistant to bending due to material thickness, protection against dust and water splashes IP68, 4 welded stainless steel load cells. Weighing bridge can also be delivered as components without the display device, KFP V40, details see page 153
- Your support in a **HACCP**-compliant quality system
- **Weighing plate screwed on from the top with stainless steel screws**, so it's easy to remove, hygienic and easy to clean
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **Display device:** stainless steel, protection against dust and water splashes IP68, hygienic and easy to clean, with integrated power supply and superior display size. The display device can also be delivered as a component without the weighing bridge, KERN KXS-TM, details see page 148
- **Benchtop stand incl. wall mount** for display device as standard
- **Weighing with tolerance range (checkweighing):** A visual and audible signal assists with portion division, dispensing or grading or the rapid checking of items on palettes
- **Totalising** of weights and piece counts

Technical data

- Large backlit LCD display, digit height 55 mm
- Dimensions of display device WxDxH 232x170x80 mm
- Cable length of display device approx. 5 m
- Weighing plate dimensions WxDxH
  A 1000x1000x80 mm
  B 1500x1250x80 mm
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN GAB-A04, **€ 40,-**
- **Stand**, stainless steel, height-adjustable, large three-legged adjustable foot, height of stand 750-1000 mm, must be ordered at purchase, KERN YKP-01, **€ 360,-**
- **Foot switch**, must be ordered at purchase, details see page 182, KERN KXS-A03, **€ 70,-**
- **Ascending ramp** including fixing board between weighing bridge and ascending ramp, for models with weighing plate size
  A WxDxH 1250x750x85 mm, KERN BFN-A01, **€ 1150,-**
  B WxDxH 1000x750x85 mm, KERN BFN-A05, **€ 1030,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFN-A03, **€ 70,-**
- 2 **Stable pit frame**, stainless steel, dimensions WxDxH 1335x1585x80 mm, for models with weighing plate size B, KERN BFN-A02, **€ 830,-**
- **Data interface RS-232**, interface cable included, approx. 1.5 m, must be ordered at purchase, KERN KXS-A04, **€ 40,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 85,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KXS-A02, **€ 110,-**
- **Foot switch**, must be ordered at purchase, for details see page 182, KERN KXS-A03, **€ 70,-**
- **Cable with special length** 15 m, between display device and platform, for verified models, this must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- **Suitable printers** see page 177

STANDARD: CAL EXT · PCS · SUM · TOL · MOVE · IP 68 · INOX · MULTI · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: RS 232 · RS 485 · BT · ACCU · M +3 DAYS

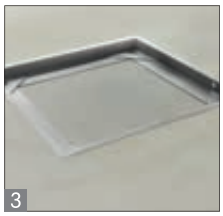
Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Net weight approx. kg	Dimensions of weighing plate WxDxH mm	Price excl. of VAT ex works €	Options Verification M KERN	 €	DAkkS Calibr. Certificate DKD KERN	 €
BAN 600K-1SM	600	0,2	20	86	1000x1000x80	**3050,-**	965-230	132,-	963-130	165,-
BAN 1T-4SM	1500	0,5	20	86	1000x1000x80	**3050,-**	965-230	132,-	963-130	165,-
BAN 1T-4M	1500	0,5	20	136	1500x1250x80	**3750,-**	965-230	132,-	963-130	165,-
BAN 3T-3M	3000	1	20	136	1500x1250x80	**3750,-**	965-232	320,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Floor scale KERN BFN

1

2


3

Stainless steel weighing bridge with screwed on weighing plate (IP68) and stainless steel display device (IP65), with EC type approval [M]

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Features

- **Industrial quality:** heavy version for tough usage in industrial applications
- 4 **Weighing bridge:** made entirely of stainless steel, extremely resistant to bending due to material thickness, protection against dust and water splashes IP68, 4 welded stainless steel load cells. Weighing bridge can also be delivered as components without the display device, KERN KFP V40, details see page 153
- Your support in a **HACCP**-compliant quality system
- **Weighing plate screwed on from the top with stainless steel screws**, so it's easy to remove, hygienic and easy to clean
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- 5 **Display device KERN KFN-TM:** stainless steel, protection against dust and water splashes IP65, hygienic and easy to clean. The display device can also be delivered as a component without the weighing bridge, KERN KFN-TM, details see page 148
- **Benchtop stand incl. wall mount** for display device as standard
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning dispensing or grading
- **Totalising** of weights and piece counts

Technical data

- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions WxDxH
  - A 1000x1000x80 mm
  - B 1500x1250x80 mm
- Dimensions of display device WxDxH 270x175x96 mm
- Rechargeable battery pack internal, standard, operating time up to 35 h without backlight, charging time approx. 12 h
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- 1 **Stand** to elevate display device, stainless steel, height-adjustable, height of stand 750-1000 mm, KERN BFN-A04, **€ 280,-**
- 2 **Ascending ramp**, stainless steel, incl. attachment plate to fix it to the weighing bridge, for models with weighing plate size
  - A WxDxH 1000x750x85 mm, KERN BFN-A05, **€ 1030,-**
  - B WxDxH 1250x750x85 mm, KERN BFN-A01, **€ 1150,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFN-A03, **€ 70,-**
- 3 **Stable pit frame** for weighing bridge installation, allowing for easy access, stainless steel, dimensions WxDxH 1335x1585x80 mm, only for models with weighing plate size B, KERN BFN-A02, **€ 830,-**
- **Data interface RS-232**, interface cable included, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Cable with special length 15 m**, between display device and platform, for verified models, this must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

10

STANDARD: CAL EXT · PCS · RECIPE · TOL · MOVE · IP 68 [4] · IP 65 [5] · INOX · ACCU · MULTI · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: RS 232 · M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Net weight approx. kg	Dimensions of weighing plate WxDxH mm	Price excl. of VAT ex works €	Options Verification M III KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
BFN 600K-1SM	600	0,2	4	96,4	1000x1000x80	**2650,-**	965-230	132,-	963-130	165,-
BFN 1T-4SM	1500	0,5	10	96,4	1000x1000x80	**2650,-**	965-230	132,-	963-130	165,-
BFN 1.5T0.5M	1500	0,5	10	135	1500x1250x80	**3350,-**	965-230	132,-	963-130	165,-
BFN 3T-3M	3000	1	20	143	1500x1250x80	**3350,-**	965-232	320,-	963-132	440,-

Floor scale KERN BBN

Note for information on further useful functions for this range, please see pages 6, 7, 149

1

3

PREMIUM ★★★

Note: For verified models the weighing bridge must be fixed to the floor. Optionally by two ascending ramps or two pairs of base plates or by a combination of these two options.

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Stainless steel weighing bridge with screwed on weighing plate (IP68) and touchscreen display (IP66) with extensive industrial functionality

Features

- **Industrial quality:** heavy version for tough usage in industrial applications
- 1 **Weighing plate screwed on from the top with stainless steel screws**, so it's easy to remove, hygienic and easy to clean
- 2 **Weighing bridge:** made entirely of stainless steel, extremely resistant to bending due to material thickness, protection against dust and water splashes IP68, 4 welded stainless steel load cells. Weighing bridge can also be delivered as components without the display device, KFP V40, details see page 153
- **Easy access to the junction box** from the top
- **Display device:** Stainless steel, touchscreen, with alphanumeric keyboard for easy entry and reading of, for example, item data, tare weights, reference weights, limit values, etc. Protection against dust and water splashes IP66. The display device can also be delivered as a component without the weighing bridge, KERN KEN-TM, details, see page 149
- **1 GB large internal memory**, 64 MB large RAM memory
- **Alibi memory:** paperless archive of weighing results
- **Up to four platforms can be connected**
- **Password protection**
- **Benchtop stand incl. wall mount** for display device as standard

Technical data

- Bright TFT touch display with digit height 21 mm, screen diagonal 5,7" (approx. 145 mm), WxH 115x86 mm
- Dimensions of display device WxDxH 282x200x76 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Stand** to elevate display device, stainless steel, height-adjustable, large three-legged feet, height of stand 750-1000 mm, must be ordered at purchase, KERN YKP-01, **€ 360,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFN-A03, **€ 70,-**
- **Ascending ramp**, for models with weighing plate size
  A WxDxH 1000x750x85 mm, KERN BFN-A05, **€ 1030,-**
  B WxDxH 1250x750x85 mm, KERN BFN-A01, **€ 1150,-**
- 3 **Stable pit frame**, stainless steel, dimensions WxDxH 1085x1085x80 mm, for models with weighing plate size B, must be ordered at purchase, KERN BFN-A02, **€ 830,-**
- **Interface cable RS-232**, cable length approx. 2 m, KERN KEN-A01, **€ 80,-**
- **Interface cable USB**, cable length approx. 1,7 m, KERN KEN-A02, **€ 140,-**
- **Large display** with superior display size, KERN KET-A06, **€ 1450,-**
- **Cable with special length** 15 m, between display device and platform, must be ordered at purchase, KERN BFB-A03, **€ 160,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD: CAL EXT · MEMORY · RS 232 · USB · SWITCH · LAN · PCS · SUM · PERCENT · TOL · MOVE · IP 68 · INOX · 230 V · DMS · 23 DAYS · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: DUAL · M +3 DAYS

3

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Net weight approx. kg	Dimensions of weighing plate WxDxH mm	Price excl. of VAT ex works €	Options: Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
BBN 600K-1SM	600	0,2	4	85	A 1000x1000x80	**5100,-**	965-230	132,-	963-130	165,-
BBN 1T-4SM	1500	0,5	10	85	A 1000x1000x80	**5100,-**	965-230	132,-	963-130	165,-
BBN 1T-4M	1500	0,5	10	135	B 1500x1250x80	**5800,-**	965-230	132,-	963-130	165,-
BBN 3T-3M	3000	1	20	135	B 1500x1250x80	**5800,-**	965-232	320,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Weighing beams KERN UFA

2

3

Highly versatile weighing beams (IP67) for large loads to 6 t

Features

- Flexible solution for weighing large, bulky or long items
- **High mobility:** thanks to battery operation (optional) and compact, flat construction, it is suitable for use in several locations (production, warehouse, dispatch department etc.)
- 1 **Weighing beams:** steel, lacquered, protection against dust and water splashes (IP67), 4 silicone-coated stainless load cells. Weighing beams can also be delivered as components without the display device, KFA V20, details see page 152
- **Sturdy handles** for transporting the weighing beams
- 2 Models with suffix-L: Each weighing beam has a roller and handle for easy transport of the scale
- **Display device: KERN KFB-TM**, details see page 147
- **Benchtop stand incl. wall mount** for display device as standard
- **Totalising** of weights and piece counts

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 250x160x130 mm
- Cable length of display device approx. 5 m
- Cable length weighing beams approx. 2,5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard. Can be re-ordered, scope of delivery: 5 items, KERN KFB-A02S05, **€ 35,-**
- 3 **Stand** to elevate display device, height-adjustable, height of stand 750-1000 mm, KERN BFS-A07, **€ 120,-**
- **Rechargeable battery pack internal**, operating time up to 35 h, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01, **€ 35,-**

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

- **Signal lamp** for visual support of weighing with tolerance range. For details see page 181, KERN CFS-A03, **€ 250,-**
- **Large display with superior display size**, digit height 76 mm. WxDxH 541x55x180 mm, for details see page 181, KERN YKD-A02, **€ 215,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- **Cable with special length 15 m**, between display device and platform, must be ordered at purchase, KERN BFB-A03, **€ 150,-**
- **Suitable printers** see page 177 ff.

10

STANDARD

CAL EXT · RS 232 · PCS · SUM · UNIT · TOL · MOVE · IP 67 · MULTI · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

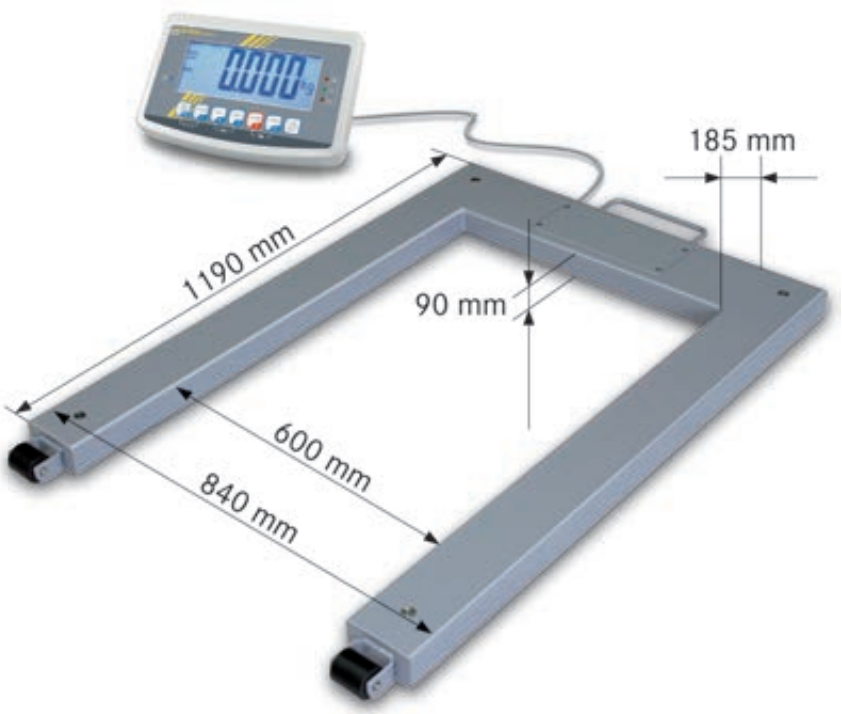
FACTORY

ACCU

1

Model KERN	Weighing range [Max] kg	Readout [d] kg	Reproducibility kg	Linearity kg	Net weight per beam kg	Dimensions of weighing plate WxDxH mm	**Price** excl. of VAT ex works €	Options **DAkkS Calibr. Certificate** DKD KERN	 €
UFA 1.5T0.5	1500	0,5	0,5	± 1	16	1200x120x100	**850,-**	963-130	165,-
UFA 3T1	3000	1	1	± 2	16	1200x120x100	**850,-**	963-132	440,-
UFA 3T-3L	3000	1	1	± 2	40	1200x163x80	**995,-**	963-132	440,-
UFA 6T-3	6000	2	2	± 4	30	2000x120x85	**1190,-**	963-132	440,-
UFA 6T-3L	6000	2	2	± 4	60	2100x160x85	**1490,-**	963-132	440,-

Pallet scale KERN UFB



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Pallet scale with steel load support (IP67) and EC type approval [M]

Features

- **High mobility:** thanks to battery operation (optional) and compact, flat construction, it is suitable for use in several locations (production, warehouse, dispatch department etc.)
- **Load support:** steel, lacquered, protection against dust and water splashes (IP67), 4 silicone-coated stainless load cells. Also available as component without the display device, KERN KFU-V20, see page 152
- **Display device: KERN KFB-TM**, details see page 147
- **2 rollers and handle** for easy transport of the scale
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading or the rapid checking of items on palettes
- Counting system: A counting scale can be connected using the data interface, and this can be used to create a high-capacity counting system for counting the very small parts in largest quantities
- **Totalising** of weights and piece counts

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 250x160x58 mm
- Cable length of display device approx. 5 m
- Net weight approx. 51 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard. Can be re-ordered, scope of delivery: 5 items, KERN KFB-A02S05, **€ 35,-**
- 1 **Stand** to elevate display device, height-adjustable, height of stand 750-1000 mm, KERN BFS-A07, **€ 120,-**
- **Rechargeable battery pack internal**, operating time up to 35 h, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, **€ 35,-**
- 2 **Signal lamp** for visual support of weighing with tolerance range. For details see page 181, KERN CFS-A03, **€ 250,-**

Limited tare range with verifiable models (1/6 from [Max])

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- **Large display with superior display size**, digit height 76 mm, WxDxH 541x55x180 mm, details see page 181, KERN YKD-A02, **€ 215,-**
- **Cable with special length 15 m**, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, **€ 150,-**
- **Suitable printers** see page 177 ff.

STANDARD: CAL EXT · RS 232 · PCS · SUM · TOL · IP 67 · MOVE · MULTI · DMS · 2 DAYS · 3 YEARS WARRANTY

3

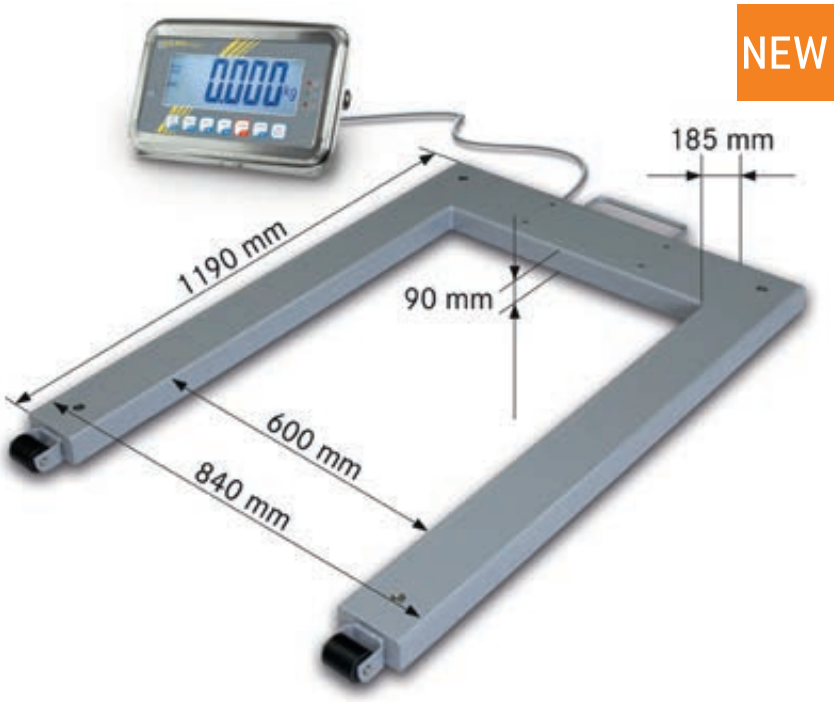
OPTION: DAkkS +3 DAYS

FACTORY: ACCU · M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Price excl. of VAT ex works €	Options Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
UFB 600K200M	600	0,2	4	**890,-**	965-230	132,-	963-130	165,-
UFB 1.5T0.5M	1500	0,5	10	**890,-**	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Pallet scale KERN UFC



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Limited tare range with verifiable models (1/6 from [Max])

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Pallet scale with steel load support (IP67) and stainless steel display device (IP65), with EC type approval [M]

Features

- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- 1 **Load support:** steel, lacquered, protection against dust and water splashes (IP67), 4 silicone-coated stainless load cells. Also available as component without the display device, KERN KFU-V20, see page 152
- **2 rollers and handle** for easy transport of the scale
- 2 **Display device: KERN KFN-TM**, details see page 148
- **Weighing with tolerance range (checkweighing):** A visual and audible signal assists with portion division, dispensing or grading or the rapid checking of items on palettes
- Counting system: A counting scale can be connected using the data interface, and this can be used to create a high-capacity counting system for counting the very small parts in largest quantities
- **Totalising** of weights and piece counts

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 5 m
- Net weight approx. 52 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- 3 **Stand** to elevate display device, height-adjustable, height of stand 750-1000 mm, KERN BFS-A07, **€ 120,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- **Signal lamp** for visual support of weighing with tolerance range, only in combination with data interface KERN KFN-A01, for details see page 181, KERN CFS-A03, **€ 250,-**
- **Large display** with superior display size, digit height 76 mm, WxDxH 541x55x180 mm, details see page 181, KERN YKD-A02, **€ 215,-**
- **Cable with special length** 15 m, between display device and platform, must be ordered at purchase, KERN BFB-A03, **€ 160,-**
- **Suitable printers** see page 177 ff.

STANDARD: CAL EXT · RS 232 · PCS · SUM · TOL · MOVE · IP 65 [2] · IP 67 [1] · MULTI · DMS · 5 DAYS · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: RS 232 · ACCU · M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Price excl. of VAT ex works €	Options Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
UFC 600K-1M	600	0,2	4	**1280,–**	965-230	132,-	963-130	165,-
UFC 1T-1M	1500	0,5	10	**1280,–**	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Pallet scale KERN UFN

1

! Limited tare range with verifiable models (1/6 from [Max])

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Drive-through scale (IP67) with XXL display device and EC type approval [M]

10

Features

- **High mobility:** thanks to battery operation and compact, flat construction, it is suitable for use in several locations (production, warehouse, dispatch department etc.)
- 1 **Load support:** made entirely of stainless steel, extremely resistant to bending due to material thickness, protection against dust and water splashes IP67, 4 silicone-coated stainless load cells. Weighing bridge can also be delivered as components without the display device, KERN KFU-V30, see page 152
- Your support in a **HACCP**-compliant quality system
- **Suitable for the ever-increasing hygienic requirements in the food industry**
- 2 **Display device KERN KFN-TM**, stainless steel, for details see page 148
- **2 rollers and handle** for easy transport of the scale
- **Hold function:** When the weighing conditions are unstable, a stable weight is calculated determining an average value
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning dispensing or grading
- **Totalising** of weights

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 5 m
- Net weight approx. 54 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- 1 **Stand** to elevate display device, stainless steel, height-adjustable, height of stand 750-1000 mm, KERN BFN-A04, **€ 280,-**
- **Rechargeable battery pack internal**, standard, operating time up to 35 h without backlight, charging time approx. 10 h, can be retrofitted, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Large display** with superior display size, digit height 76 mm, WxDxH 541x55x180 mm, only in combination with data interface KERN KFN-A01, **€ 95,-** for details see page 181, KERN YKD-A02, **€ 215,-**
- **Cable with special length 15 m**, between display device and platform, for verified models, this must be ordered at the time of purchase, KERN BFB-A03, **€ 150,-**
- **Suitable printers** see page 177 ff.

STANDARD: CAL EXT, SUM, TOL, MOVE, IP 65 (2), IP 67 (1), INOX, ACCU, MULTI, DMS, 2 DAYS, 3 YEARS WARRANTY

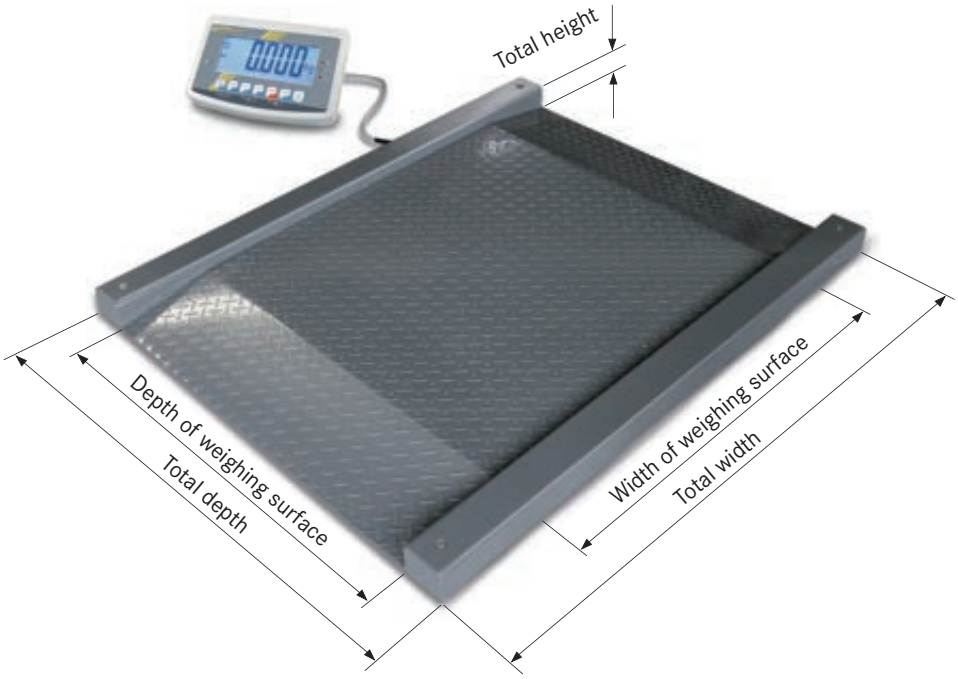
OPTION: DAkkS +3 DAYS

FACTORY: RS 232, M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minium load [Min] kg	Net weight approx. kg	Price excl. of VAT ex works €	Options Verification KERN	 €	 DAkkS Calibr. Certificate KERN	 €
UFN 600K200IPM	600	0,2	4	52	**1700,-**	965-230	132,-	963-130	165,-
UFN 1.5T0.5IPM	1500	0,5	10	54	**1700,-**	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Drive-through scale KERN NFB



1

Note: For verified scales the weighing bridge must be fixed to the floor with a base plate pair

Limited tare range with verifiable models (1/6 from [Max])

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Drive-through scale (IP67) with XXL display device and EC type approval [M]

Features

- **Robust drive-through scale** for rapid weighing of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.
- 1 **Weighing bridge:** anti-slip corrugated steel plate, lacquered, protection against dust and water splashes (IP67), 4 silicone-coated stainless load cells. Also available as component without the display device, KERN KFD-V30, see page 151
- **Display device KERN KFB-TM**, details see page 147

Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions WxDxH
  - A 1600x1200x78 mm
  - B 1800x1400x78 mm
- Overall dimensions, without access ramps (Drive-through width and depth) WxD
  - A 1000x1000 mm
  - B 1200x1200 mm
- Dimensions of display device WxDxH 250x160x58 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard. Can be re-ordered, scope of delivery: 5 items, KERN KFB-A02S05, **€ 35,-**
- 2 **Stand** to elevate display device, height of stand approx. 750-1000 mm, KERN BFS-A07, **€ 120,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01, **€ 35,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFS-A06, **€ 60,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- **Signal lamp** for visual support of weighing with tolerance range. For details see page 181, KERN CFS-A03, **€ 250,-**
- **Large display with superior display size**, digit height 76 mm, WxDxH 541x55x180 mm, for details see page 181, KERN YKD-A02, **€ 215,-**
- **Cable with special length 15 m**, between display device and platform, for verified models, this must be ordered at the time of purchase, KERN BFB-A03, **€ 150,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

10

STANDARD: CAL EXT · RS 232 · PCS · SUM · TOL · MOVE · IP 67 · MULTI · DMS · 2 DAYS · 3 YEARS WARRANTY

1

OPTION: DAkkS +3 DAYS

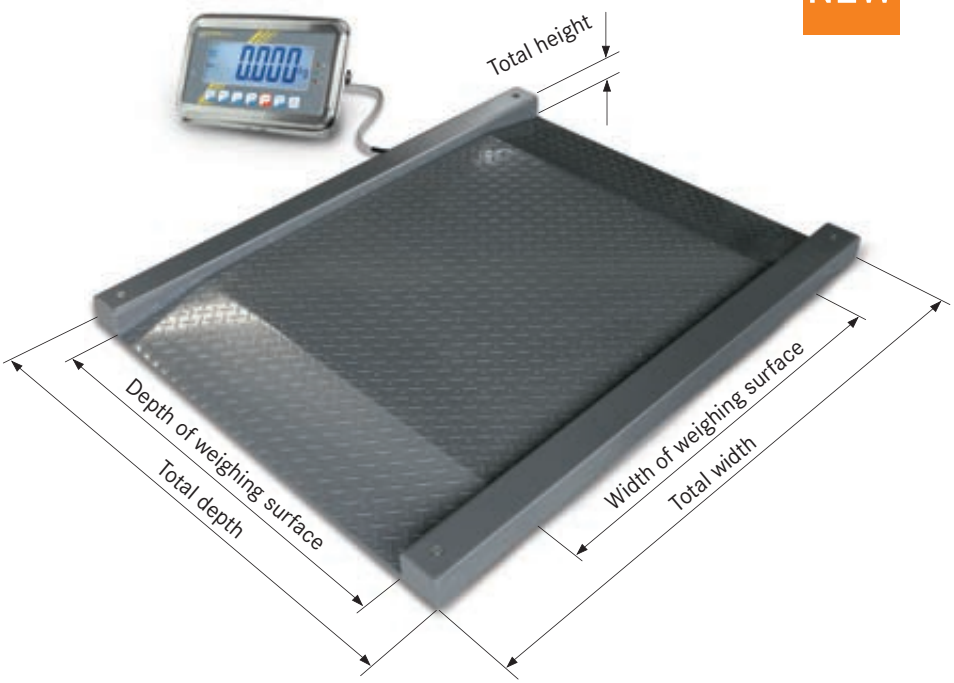
FACTORY: ACCU · M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options Verification M III KERN	 €	DAkkS Calibr. Certificate DKD KERN	 €
NFB 600K200M	600	0,2	4	131	A	**1290,-**	965-230	132,-	963-130	165,-
NFB 600K200LM	600	0,2	4	156	B	**1450,-**	965-230	132,-	963-130	165,-
NFB 1.5T0.5M	1500	0,5	10	122	A	**1290,-**	965-230	132,-	963-130	165,-
NFB 1.5T0.5LM	1500	0,5	10	150	B	**1460,-**	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Drive-through scale KERN NBB

NEW



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Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Limited tare range with verifiable models (1/6 from [Max])

Drive-through scale (IP67) with stainless steel display device (IP65) and EC type approval [M]

10

Features

- **Robust drive-through scale** for rapid weighing of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.
- 1 **Weighing bridge:** anti-slip corrugated steel plate, lacquered, protection against dust and water splashes (IP67), 4 silicone-coated stainless load cells. Also available as component without the display device, KERN KFD-V30, see page 151
- 2 **Display device:** KERN KFN-TM, details see page 148
- **Benchtop stand incl. wall mount** for display device as standard
- **Totalising** of weights and piece counts

Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions WxDxH
  A 1600x1200x80 mm, B 1800x1400x78 mm
- Overall dimensions, without access ramps (Drive-through width and depth) WxD
  A 1000x1000 mm
  B 1200x1200 mm
- Dimensions of display device WxDxH 266x175x96 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard. Can be re-ordered, KERN KFB-A02S05, **€ 35,-**
- 3 **Stand** to elevate display device, stainless steel, height of stand 750-1000 mm, height-adjustable, must be ordered at purchase, KERN YKP-01, **€ 360,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFS-A06, **€ 60,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- 4 **Signal lamp** for visual support of weighing with tolerance range. For details see page 181, KERN CFS-A03, **€ 250,-**
- **Large display with superior display size**, digit height 76 mm, WxDxH 541x55x180 mm, only in combination with data interface KERN KFN-A01, for details see page 181, KERN YKD-A02, **€ 215,-**
- **Cable with special length 15 m**, between display device and platform, for verified models, this must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- **Suitable printers** and further, extensive accessories from page 177

STANDARD: CAL EXT, RS 232, PCS, SUM, TOL, MOVE, IP 65 (2), IP 67 (1), MULTI, DMS, 5 DAYS, 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS, ACCU

FACTORY: RS 232, M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options: Verification MID KERN	Verification €	DAkkS Calibr. Certificate DKD KERN	DAkkS Calibr. Certificate €
NBB 600K-1M	600	0,2	4	134	A	**1670,–**	965-230	132,-	963-130	165,-
NBB 600K-1LM	600	0,2	4	156	B	**1770,–**	965-230	132,-	963-130	165,-
NBB 1T-1M	1500	0,5	10	140	A	**1660,–**	965-230	132,-	963-130	165,-
NBB 1T-1LM	1500	0,5	10	150	B	**1860,–**	965-230	132,-	963-130	165,-

Drive-through scale KERN NFN

Note: For verified scales the weighing bridge must be fixed to the floor with a base plate pair

1 Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Stainless steel drive-through scale with IP68 weighing bridge, IP65 display device and EC type approval [M]

Features

- **Robust drive-through scale** made of stainless steel for rapid weighing of e.g., shelf trolleys, container trolleys, storage trolleys, transport cases, transpallets, mobile containers etc.
- **Low platform height** and integrated access ramps on both sides facilitate access.
- 1 **Weighing bridge:** made entirely of stainless steel, extremely resistant to bending due to material thickness, protection against dust and water splashes IP68, 4 welded stainless load cells. Also available as component without the display device, KERN KFD-V40, see page 153
- Ideal for the pharmaceutical and chemical industries
- Your support in a **HACCP**-compliant quality system
- 2 **Display device** KERN KFN-TM, stainless steel, details see page 148
- **Totalising** of weights and piece counts

Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions WxDxH 1600x1200x78 mm
- Overall dimensions, without access ramps (Drive-through width and depth) WxD 1000x1000 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 5 m
- Net weight approx. 131 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- 3 **Stand** to elevate display device, stainless steel, height-adjustable, height of stand 750-1000 mm, KERN BFN-A04, **€ 280,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN GAB-A04, **€ 40,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFN-A03, **€ 70,-**
- **Data interface RS-232**, interface cable included, approx. 1.5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Large display with superior display size**, only in combination with data interface KERN KFN-A01, digit height 76 mm. WxDxH 541x55x180 mm, for details see page 181, KERN YKD-A02, **€ 215,-**
- **Cable with special length 15 m**, between display device and platform, for verified models, this must be ordered at the time of purchase, KERN BFB-A03, **€ 160,-**
- **Suitable printers** and further, extensive accessories from page 177

STANDARD: CAL EXT, PCS, SUM, TOL, MOVE, IP 65 (2), IP 68 (1), INOX, MULTI, DMS, 2 DAYS, 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: RS 232, ACCU, M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimum load [Min] kg	Price excl. of VAT ex works €	Options Verification KERN	Verification €	DAkkS Calibr. Certificate KERN	DAkkS Calibr. Certificate €
NFN 600K-1M	600	0,2	4	**2880,-**	965-230	132,-	963-130	165,-
NFN 1.5T-4M	1500	0,5	10	**2880,-**	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

> Whether it's in the office, in production or dispatch, KERN platform scales will prove their worth in all areas of an industrial environment. Designed to be durable and with highly-accurate weighing results they will become an indispensable assistant in the workplace.
>
> *Jürgen Boschanski, KERN Logistics*

Axle load scales

Over the legal limit!

Axle load or wheel load scales are an ideal weighing solution for mobile weighing of trucks, trailers, small aircrafts etc. on a non-verified basis.

Mobile axle load scales are often used to give indicative measurements, in particular on building sites, during harvest time in the agricultural industry or in the field of traffic monitoring, in order to establish whether vehicles are overloaded or incorrectly loaded. If such measurements will show inconsistencies, a second measurement can be carried out on a verified vehicle scale.

Compared with fixed vehicle scales, axle load scales are usually more affordable. They not require costly installation and with their compact dimensions and low weight they clearly score highly in terms of mobility.

Using the convenient software in the KERN axle load scales, individual axles can be weighed quickly and easily, one after another. When connected, the various weights at the individual wheels, the weight of the axle or the total weight of the vehicle can be displayed and transferred to the printer.

Thanks to its compact design with a depth of just 50 cm and the equalisation platforms, two axles can be weighed individually, even if they are installed to one another.

Alternatively the innovative design of the weighing pad allows for 2 axles to be measured at the same time and the results to be added when these 2 axles are installed right next to each other. This double construction is also recommended for vehicles or trailers with exceptionally large wheels.

The modular construction of the KERN VHP facilitates enable a wide... wide range of different combination and can therefore be adapted quickly to suit the on-site conditions:

Stephan Ade
Product specialist Axle load scales

Tel. +49 [0] 7433 9933 - 121
Fax +49 [0] 7433 9933 - 29121
ade@kern-sohn.com

Weighing of trucks, motor homes, trailers etc. for carrying out quick checks of axle weights in any location (Police), to detect and avoid incorrect loading or overloading

Weighing of tractors, trailers, trucks etc. for products and goods control at the point of receipt or dispatch in locations where there is no permanently installed vehicle scale or one is not available for financial reasons

Weighing of airplanes to calculate the loading scheme and determine the centre of gravity, to make sure that the permissible total weight is not exceeded and that the load is correctly distributed

Quick-Finder Axle load scales

Read-out [d]	Weighing range [Max]	**Model** **KERN**	**Price** excl. of VAT ex works **€**	Page	DAYS ready for shipping	CAL EXT	ACCU
						For an explanation on the pictos, see the front flap	
5 kg	6 t	**VHP 6T-3**	**6890,-**	142	2	●	●
10 kg	15 t	**VHP 15T-2**	**6890,-**	142	2	●	●

● = Standard ○ = Option

Weighing of airplanes
Order example: standard package VHP 15T-2, see table on the right, 4 x ascending ramp VHP-A01, 2 x weighing pad KHP 75000V20LM

11

Modular axle load scale for the mobile monitoring of vehicles up to 15 tones

Asynchronous weighing of individal axles
Order example: standard package VHP 6T-3 or VHP 15T-2, see table on the right

Asynchronous weighing of double axles which are installed next to each other, using compensation pads
Order example: standard package VHP 6T-3 or VHP 15T-2, see table on the right, 4 x ascending ramp VHP-A01, 2 x compensation pad VHP-A03

Simultaneous weighing of double axles, e.g. of a trailer
Order example: standard package VHP 15T-2, see table on the right, 4 x ascending ramp VHP-A01, 2 x weighing pad KHP 75000V20LM

Axle load scale KERN VHP

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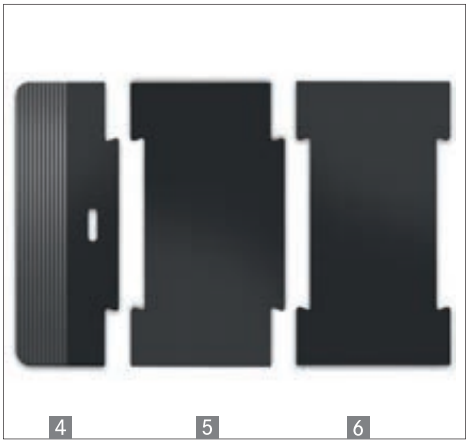
4 5 6

Features

- **Mobile axle load scale for rapid monitoring of vehicles.** Space-saving and affordable. Ideal for mobile police or customs checks, on landfill sites, gravel works, biogas plants etc.
- 1 **Display device with integrated thermal transfer printer and rechargeable battery pack** in stable, lined transport case standard. 4 quick-release connectors to connect up to 4 weighing pads. The weighing results from the individual weighing pads can be issued individually or cumulatively
  KERN VHP-T, **€ 1900,-**
- 2 **Weighing pad (wheel load plate) extremely resistant to bending because of its high material thickness**. Particularly flat design, only 35 mm. Brackets for access ramps and spacer plates on both sides, and therefore quickly expendable
  - 2 rollers and 2 handles for easy transport of the weighing pad
  - 6 load cells, aluminium, **silicone-coated**, IP65

Technical data

- Backlit LCD display, digit height 10 mm
- Weighing plate dimensions WxDxH 900x500x35 mm
- Dimensions ascending ramp WxD 900x250 mm
- Dimensions display device (case) 355x300x165 mm
- Net weight for each weighing pad approx. 30,2 kg
- Net weight of each access ramp approx. 12 kg
- Net weight display device (case) approx. 9,2 kg
- **Rechargeable battery pack internal**, standard, operating time up to 13 hours with backlight without use of printer, charging time approx. 12 h. Can be re-ordered, KERN HFM-A01, **€ 50,-**
- Cable length of display device approx. 10 m
- Permissible ambient temperature -40 °C / 70 °C
- **Scope of supply:**
  - **2 weighing pads (wheel load plates)**
  - **4 access ramps**
  - **1 display device in stable transport case**

Note: The standard scope of supplies (see technical data) can be expanded with further weighing pads, ramp extensions and balancing platforms (see accessories) and in this way the system can be adapted to cover a wide range of applications.
Do you have any questions or special requests?
Your KERN product specialist will be happy to help

Accessories

- 3 **Weighing pad to expand the weighing system VHP**, steel, lacquered (orange), 2 rollers and 2 handles, dimensions WxDxH 900x500x35 mm, 1 piece, for model
  VHP 6T-3: [Max] = 3000 kg, [d] = 5 kg, KERN KHP 3000V20LM, **€ 2650,-**
  VHP 15T-2: [Max] = 7500 kg, [d] = 10 kg, KERN KHP 7500V20LM, **€ 2650,-**
- 4 **Ascending ramp**, extremely resistant rubber compound, dimensions WxDxH 900x250x35 mm, KERN VHP-A01, **€ 220,-**
- 5 **Ramp extension**, extremely resistant rubber compound, dimensions WxDxH 900x545x35 mm, KERN VHP-A02, **€ 320,-**
- 6 **Compensation pad**, extremely resistant rubber compound, dimensions WxDxH 900x545x35 mm, KERN VHP-A03, **€ 320,-**
- **Thermal receipt rolls** (10 pieces), suitable for the thermal transfer printer integrated in display device, length approx. 18 m, width 57 mm, Ø 51 mm, KERN RFS-A10, **€ 40,-**
- **DAkkS calibration certificate** (for both pads), see table. DAkkS calibration certificate for one pad, see page 213

STANDARD

CAL EXT · UNIT · IP 65 · ACCU · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] kg	Weighing pad included with delivery [Max] kg	**Price per pair** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	 €
VHP 6T-3	6000	5	2 x 3000	**6890,-** ↓	963-132A	880,-
VHP 15T-2	15000	10	2 x 7500	**6890,-** ↓	963-133A	1000,-

↓ Price reduction

12 Display devices/Platforms/Weighing bridges

Individuality is the key

Do you have special requests, which are not covered by our exten-sive balance range? Then why not configure your ideal model yourself, it's quick, individual and affordable.

The choice is yours:

- Choose one of the many KERN weighing bridges, pallet scales or drive-through scales and combine these with one of the many KERN display devices
- Combine your weighing bridge with a KERN display device
- Combine your display device with a KERN weighing bridge

Have your ideal scale verfied – with KERN

To help you obtain a verified individual scale combination KERN offers you full support, such as for example

- Issuing of ➔ ***proof of compatibility***, see page 145
- Support in preparing for verification, EC type approval, installation conditions
- Issuing of ➔ ***declaration of conformity*** upon the executed ➔ ***conformity evaluation*** (manufacturer's initial verification)

Of course there is also the complete service available for you and we set up the required scale combination including verification. All further details can be found on the following pages. Your personal customer consultant will be pleased to assist you, too.

➔ ***See the glossary on page 214 – 216***

Stephan Ade
Product specialist
Display devices/Platforms/
Weighing bridges

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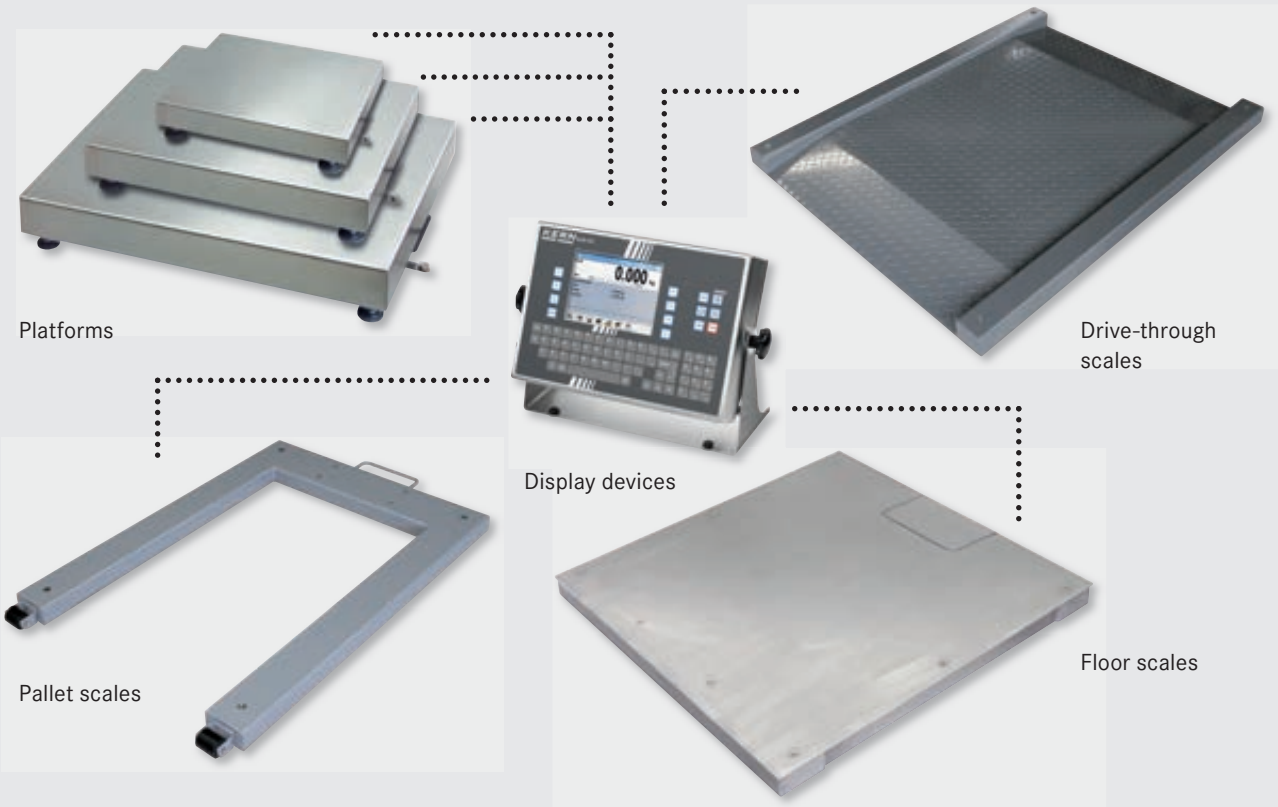
ade@kern-sohn.com

You will find a wide variety of display devices, platforms, weighing bridges, etc. in KERN's product range and these can be put together to create your ideal scale. You simply choose the components, KERN handles the rest.



Putting together individual weighing systems which cannot be verified

KERN offers a range of KERN display devices and KERN weighing units, such as platform scales, floor scales, pallet scales and drive-through scales, which you can put together to make your ideal scale. You choose the components, KERN handles the rest.

Assembly
KERN delivers the complete scale which is ready to use.
Prices for assembly can be found in the “Assembly” price table.
On request we can also produce a calibration certificate in accordance with DAkkS/DKD at an additional price, see page 209

Putting together individual weighing systems which can be verified or are verified

In order to provide the complete package, as well as assembling your individual weighing system, KERN will also carry out the manufacturer’s initial verification/evaluation for conformity in accordance with EC directives as a commercial scales of verification class III.

In accordance with the verification regulations, when assembling a display device with a weighing unit you must take the following notes into account:

- Only elements which can be verified with build-type approval or OIML test certificate can be combined into a weighing system which can be verified. With KERN these are labelled with “M”.
- Platforms with load cells, provided as third-party products which have an OIML test certificate can be included.
- It will not be possible to carry out verification at a later date, e.g. after assembly and delivery of the weighing system. So please order the verification at the same time as you order the weighing system.

The individual KERN steps:

	Weighing range 0 up to ... kg	Model KERN	Price excl. of VAT, ex works €
1. Proof of compatibility This is mandatory by law and includes testing by using build-type approvals, whether the connection values of the display device match the connection data of the weighing unit.	all weighing ranges	**965-240**	**45,-**
2. Assembly After testing for suitability, using the proof of compatibility, the weighing system will be wired by KERN. The weighing system will then be adjusted, tested and prepared for verification in accordance with verification regulations.	up to ≤ 50 kg	**965-411**	**70,-**
	up to ≤ 350 kg	**965-412**	**100,-**
	up to ≤ 1500 kg	**965-413**	**120,-**
	up to ≤ 2900 kg	**965-414**	**150,-**
	up to ≤ 6000 kg	**965-415**	**250,-**
3. Initial verification by the manufacturer KERN is authorised to carry out the initial verification by the manufacturer of scales of verification class III (commercial scales) and is therefore authorised to introduce the weighing system onto the market, after the scale has been sealed with the verification mark.	up to ≤ 5 kg	**965-227**	**55,-**
	up to ≤ 50 kg	**965-228**	**55,-**
	up to ≤ 350 kg	**965-229**	**93,-**
	up to ≤ 1500 kg	**965-230**	**132,-**
	up to ≤ 2900 kg	**965-231**	**220,-**
	up to ≤ 6000 kg	**965-232**	**320,-**
4. Declaration of conformity KERN issues this after manufacturer’s initial verification has been carried out successfully and sends it with the verified weighing system at no additional costs.			

Modifications and special services

Description	Model KERN	Price excl. of VAT, ex works €
Cable extensions for platform scales with build-type approval		
up to 4 m extension	**965-403**	**45,-**
to 7 m extension	**965-404**	**60,-**
to 10 m extension	**965-405**	**75,-**
Cable extensions for platform scales without build-type approval		
up to 4 m extension	**920-403**	**45,-**
up to 7 m extension	**920-404**	**60,-**
up to 10 m extension	**920-405**	**75,-**
Setting an individual preload		
Balance with build-type approval	**965-401**	**50,-**
Balance without build-type approval	**965-406**	**50,-**
Other adjustments in the balance or software changes	**965-407**	**95,-/h** Please require
Plug connection (replaces the fixed cable connection between the display device and platform with a plug connection which can be disconnected)		
balances with type approval and verification	not currently possible	
balances with type approval, no verification	**965-406**	**60,-**

Order example

KFP 30V20M platform and KEN-TM display device with cable extension (4 m) and setting an individual preload.

	Model KERN	Price excl. of VAT, ex works €
KERN platform	**KFP 30V20M**	**205,-**
KERN display device	**KFN-TM**	**290,-**
Proof of compatibility	**965-240**	**45,-**
Cable extension	**965-403**	**45,-**
Setting the preload	**965-401**	**50,-**
Assembly	**965-411**	**50,-**
Verification at the factory KERN	**965-228**	**55,-**
Complete scale (verified)		**740,-**

Comment:

Please ask for delivery times, dimensions, gross weight and shipping costs. 3 year warranty. Where applications require verification, please order the verification at the same time as you order the scale. It is not possible to perform an initial verification after purchase. It is not possible to return, exchange or receive reimbursement for custom products, as described above, for example. Prices cannot be discounted.

1 KERN KFB-TM

Display device with large digits – easy to read

STANDARD

STANDARD

OPTION

FACTORY

2 KERN KFS-TM

Professional indicator with 3 displays, and with EC type approval

STANDARD

STANDARD

OPTION

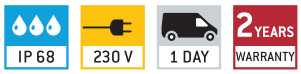
FACTORY

3 KERN KXG-TM

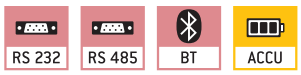
IP68 display device with integrated power supply

STANDARD

STANDARD



OPTION



FACTORY

Features	Model KERN 1 KERN KFB-TM	Model KERN 2 KERN KFS-TM	Model KERN 3 KERN KXG-TM
Display (segments)	5 + ½ digits	6 digits	6 digits
EC type approval	yes	yes	yes
Resolution verifiable	6.000 e	3.000 e	10.000 e
Resolution non verifiable	30.000 d	60.000 d	30.000 d
Weighing ranges	≤ 2	≤ 2	≤ 2
Weighing units	kg	kg	kg
Read-out	1, 2, 5, 10, n	1, 2, 5, ... 10, n	1, 2, 5, 10, 20, 50
Piece counting with reference	10, 20, 50, 100, 200	n	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 52 mm	Backlit LCD display, 13/16,5 mm	Backlit LCD display, 55 mm
Additional functions	Totalising, HOLD function	99 item memories, totalising, printing of date and time	PRE-TARE function, totalising, HOLD function, peak hold, zero-point memorisation
Strain gauge load cells	87 – 1600 Ω	87 – 1600 Ω	87 – 1600 Ω
Linearisation	2 points	4 points	2 – 7 points
Input voltage	12 V/500 mA	12 V/500 mA	110 – 230 V AC
Permissible ambient temperature	-10 °C/40 °C (verified)	0 °C/40 °C	-10°C/40 °C (not verified)
Interface RS-232	yes	yes	KXS-A04, **€ 40,-**
Interface RS-485	–	–	KXS-A01, **€ 85,-**
Interface Bluetooth	–	–	KXS-A02, **€ 110,-** (Scale ➔ PC)
Foot switch	–	–	KXS-A03, **€ 70,-**
Stand	BFS-A07, see page 125, **€ 120,-**	BFS-A07, see page 125, **€ 120,-**	YKP-A02, **€ 210,-**
Benchtop stand for display device/wall mount	yes/yes	yes/yes	yes/yes
Protective working cover	KFB-A02S05, see page 112, **€ 35,-**	KFB-A02S05, see page 93, **€ 35,-**	-
Rechargeable battery pack	KFB-A01, see page 112, **€ 35,-**	KFS-A01, see page 93, **€ 35,-**	GAB-A04, **€ 40,-**
Operating/charging time	approx. 35 h/12 h	approx. 40 h/12 h	80 h/12 h
Dimensions Housing WxDxH	250x160x58 mm	260x150x65 mm	323x170x80 mm
Net weight	1,5 kg	1,5 kg	2 kg
Price excl. of VAT, ex works **€**	**200,-**	**210,-**	**210,-**

4 KERN KFE-TM

Stainless steel display device with IP65 protection

STANDARD

CAL EXT · SUM · TOL · MOVE · IP 65 · INOX

STANDARD

ACCU · MULTI · 1 DAY · 2 YEARS WARRANTY

FACTORY

M

5 KERN KFN-TM

Stainless steel display device with IP65 protection and superior display size

STANDARD

CAL EXT · PCS · SUM · TOL · MOVE · IP 65

STANDARD

INOX · MULTI · 1 DAY · 2 YEARS WARRANTY

OPTION

RS 232 · ACCU

FACTORY

M

6 KERN KXS-TM

Stainless steel display device with IP68 protection and integrated power supply

STANDARD

CAL EXT · PCS · SUM · PERCENT · TOL · MOVE

STANDARD

IP 68 · INOX · 230 V · 1 DAY · 2 YEARS WARRANTY

OPTION

RS 232 · RS 485 · BT · ACCU

FACTORY

M

Features	Model KERN 4 KERN KFE-TM	Model KERN 5 KERN KFN-TM	Model KERN 6 KERN KXS-TM
Display (segments)	6 digits	5 + ½ digits	6 digits
EC type approval	yes	yes	yes
Resolution verifiable	6.000 e	6.000 e	10.000 e
Resolution non verifiable	30.000 d	30.000 d	30.000 d
Weighing ranges	≤ 2	≤ 2	≤ 2
Weighing units	kg	kg	kg
Read-out	1, 2, 5, 10, n	1, 2, 5, 10, n	1, 2, 5, 10, 20, 50
Piece counting with reference	–	10, 20, 50, 100, 200	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 22 mm	Backlit LCD display, 52 mm	Backlit LCD display, 55 mm
Additional functions	–	Totalising, HOLD function	PRE-TARE function, totalising, HOLD function, peak hold, zero-point memorisation
Strain gauge load cells	87 – 1200 Ω	87 – 1600 Ω	87 – 1600 Ω
Linearisation	2 points	2 points	2 – 7 points
Input voltage	12 V/500 mA	12 V/500 mA	220 – 240 V AC
Permissible ambient temperature	-10 °C/40 °C (verified)	-10 °C/40 °C (verified)	-10°C/40 °C (verified)
Interface RS-232	–	KFN-A01E, see page 81, **€ 95,-**	KXS-A04E, **€ 40,-**
Interface RS-485	–	–	KXS-A01E, **€ 85,-**
Interface Bluetooth	–	–	KXS-A02E, **€ 110,-** (Scale ➔ PC)
Foot switch	–	–	KXS-A03E, **€ 70,-**
Stand	–	BFS-A07, see page 127, **€ 120,-**	YKP-01, **€ 360,-**
Benchtop stand for display device/wall mount	yes/yes	yes/yes	yes/yes
Protective working cover	–	–	–
Rechargeable battery pack	standard	GAB-A04, **€ 40,-**	GAB-A04, **€ 40,-**
Operating/charging time	approx. 45 h/12 h	approx. 50 h/12 h	80 h/12 h
Dimensions Housing WxDxH	195x118x83 mm	266x165x96 mm	232x170x80 mm
Net weight	1 kg	2 kg	2,5 kg
Price excl. of VAT, ex works **€**	**240,-**	**290,-**	**300,-**

7 KERN KET-TAM

Modern touchscreen display

STANDARD

MEMORY · RS 232 · USB · SWITCH · LAN · GLP INTERN

STANDARD

PCS · SUM · PERCENT · UNIT · TOL · MOVE

OPTION

B MULTI · 1 DAY · 3 YEARS WARRANTY

FACTORY

M

8 KERN KEN-TM

Modern stainless steel touchscreen display with alphanumeric keyboard

STANDARD

MEMORY

STANDARD

RS 232 · USB · SWITCH · DUAL · LAN · GLP INTERN

STANDARD

PCS · SUM · PERCENT · UNIT · TOL · MOVE

OPTION

IP 66 · INOX · 230 V · 1 DAY · 3 YEARS WARRANTY

FACTORY

M

Features	Model KERN 7 KERN KET-TAM	Model KERN 8 KERN KEN-TM
Display (segments)	7 digits	7 digits
EC type approval	yes	yes
Resolution verifiable	6.000 e	6.000 e
Resolution non verifiable	100.000 d	100.000 d
Weighing ranges	3	3
Weighing units	kg, g, ct, lb, N, oz	kg, g, ct, lb, N, oz
Read-out	1, 2, 5, 10	1, 2, 5, 10
Piece counting with reference	5, 10, 25, 50, 100, n	5, 10, 25, 50, 100, n
Display, digit height	21/19 mm	21/19 mm
Additional functions	8 GB internal memory, 64 MB RAM, Dual-Core processor, alibi memory, password protection, user profiles, up to 4 platforms can be connected	8 GB internal memory, 64 MB RAM, Dual-Core processor, alibi memory, password protection, user profiles, up to 4 platforms can be connected
Strain gauge load cells	80 – 1200 Ω	80 – 1200 Ω
Linearisation	6 points	6 points
Input voltage	10 – 15 V DC 1,4 A	100 – 240 V AC 65 mA
Permissible ambient temperature	-10 °C/40 °C (verified)	-10 °C/40 °C (verified)
Interface RS-232	yes	yes; interface cable compulsory, KEN-A01, **€ 80,-**
Interface USB	yes	yes; interface cable compulsory, KEN-A02, **€ 140,-**
Analogue module	–	KERN KEN-A06, **€ 350,-**
Relay output (4 relays)	–	KERN KEN-A07, **€ 180,-**
Interface DIGITAL I/O	yes	8 in/8 out, KERN KEN-A08, **€ 600,-**
DIGITAL I/O cable	–	KEN-A04, **€ 140,-**
Profibus module	–	KERN KEN-A09, **€ 250,-**
Interface DUAL	–	yes
Interface LAN	yes	yes; LAN cable compulsory, KEN-A03, **€ 140,-**
Interface Bluetooth	–	–
Signal lamp	Scope of delivery: signal lamp CFS-A03, adapter cable KET-A11, KERN KET-A10, **€ 270,-**	Scope of delivery: signal lamp CFS-A03, adapter cable KET-A11, KERN KET-A10, **€ 270,-**
Stand	–	–
Benchtop stand for display device/wall mount	Wall mount: KERN KET-A02, **€ 190,-**	Benchtop stand incl.
Protective working cover	–	–
Rechargeable battery pack	–	–
Operating/charging time	–	–
Further accessories	see page 184 ff.	see page 184 ff.
Dimensions Housing WxDxH	215x156x71 mm	282x200x76 mm
Net weight	0,65 kg	4,5 kg
Price excl. of VAT, ex works **€**	**1600,-**	**2300,-**

12

1 KERN KFP V20 IP65

Platform

STANDARD

IP 65 | 1 DAY | 2 DAYS (only KFP 600) | 2 YEARS WARRANTY

FACTORY

M

- 1 **Stainless steel-weighing plate**
  A Painted steel base
- **1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved,** class III, 3000 e
- **Level indicator and levelling feet** for precise levelling of the scale

2 KERN KXP V20 IP65

Platform

STANDARD

IP 65 | 2 DAYS | 2 YEARS WARRANTY

FACTORY

M

- 2 Stainless steel-weighing plate, B Painted steel base, is extremely rigid, wing design
- **1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved,** class III, 3000 e
- **Level indicator and levelling feet** for precise levelling of the scale

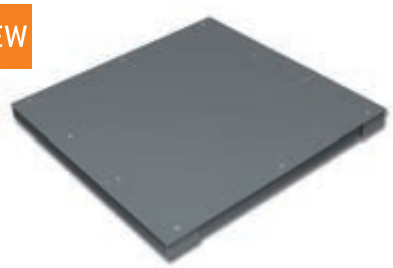
A

B

12

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Min. load [Min] g	Add. preload kg	Cable length approx. m	Net weight approx. kg	Weighing plate mm	**Price** excl. VAT, ex works €
1 Platform KFP V20 IP65									
KFP 6V20M	6	2	2	40	1	2,5	3,7	230x230x110	**160,-**
KFP 6V20LM	6	2	2	40	2	2,5	4,6	300x240x110	**180,-**
KFP 15V20M	15	5	5	100	2	2,5	4,6	300x240x110	**175,-**
KFP 15V20LM	15	5	5	100	5	2,5	9,7	400x300x128	**205,-**
KFP 30V20M	30	10	10	200	5	2,5	9,7	400x300x128	**205,-**
KFP 60V20M	60	20	20	400	5	2,5	9,7	400x300x128	**210,-**
KFP 60V20LM	60	20	20	400	7	2,5	12,5	500x400x137	**260,-**
KFP 150V20M	150	50	50	1000	7	2,5	12,5	500x400x137	**260,-**
KFP 150V20LM	150	50	50	1000	11	2,5	20,75	650x500x142	**460,-**
KFP 300V20M	300	100	100	2000	10	2,5	20,75	650x500x142	**455,-**
KFP 600V20AM	600	200	200	4000	20	3	50	800x600x150	**730,-**
2 Platform KXP V20 IP65									
KXP 6V20LM	6	2	2	40	2	3	3,2	300x240x90	**220,-**
KXP 15V20M	15	5	5	100	2	3	3,2	300x240x96	**220,-**
KXP 30V20M	30	10	10	200	10	3	7,5	400x300x89	**310,-**
KXP 30V20LM	30	10	10	200	5	3	17,5	500x400x132	**450,-**
KXP 60V20M	60	20	20	400	10	3	7,5	400x300x90	**310,-**
KXP 60V20LM	60	20	20	400	10	3	17,5	500x400x123	**460,-**
KXP 150V20M	150	50	50	1000	10	3	17,5	500x400x123	**450,-**
KXP 150V20LM	150	50	50	1000	10	3	32,4	650x500x133,5	**480,-**
KXP 300V20M	300	100	100	1000	20	3	32,5	650x500x133,5	**480,-**

NEW



3 KERN KFP V20 IP67

Weighing bridge

STANDARD: IP 67 · 2 DAYS · 3 YEARS WARRANTY

FACTORY: M

- C **Weighing plate screwed on from the top (models with [Max] ≤ 1500 kg),** so it easy to remove, hygienic and easy to clean
- **Lacquered steel weighing bridge,** models with weighing range [Max] ≥ 3000 kg corrugated steel plate.. Extremely resistant to bending due to material thickness
- **4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification,** class III, 3000 e
- Can be built in using pit frames (optional)
- **Level indicator and levelling feet** for precise levelling of the scale
- **Easy access to the junction box** from the top
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 125 (KERN BFB)

4 KERN KFD V20

Weighing bridge

STANDARD: IP 67 · 2 DAYS · 3 YEARS WARRANTY

FACTORY: M

- **Weighing bridge made of non-slip corrugated steel plate,** lacquered, two access ramps integrated, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- **4 Load cells, alloy steel, silicone-coated, IP67, OIML-R60-approved** class III, 3000 e
- Accessories page 137 (KERN NFB)

C

12

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Min. load [Min] g	Add. preload kg	Cable length approx. m	Net weight approx. kg	Weighing plate mm	**Price** excl. VAT, ex works €
3 Weighing bridge KFP V20 IP67									
KFP 600V20SNM	600	200	200	4000	120	5	105	1000x1000x85	**950,-**
KFP 600V20NM	600	200	200	4000	120	5	175	1500x1250x85	**1410,-**
KFP 1500V20SNM	1500	500	500	10000	300	5	105	1000x1000x85	**950,-**
KFP 1500V20NM	1500	500	500	10000	300	5	175	1500x1250x85	**1190,-** ⬇
KFP 3000V20LM	3000	1000	1000	20000	500	5	175	1500x1250x80	**1190,-**
KFP 6000V20M	6000	2000	2000	40000	1000	5	208	1500x1500x130	**1930,-**
4 Drive-through scale KFD V20									
KFD 600V20M	600	200	200	4000	120	5	130	1600x1200x78	**1270,-**
KFD 600V20LM	600	200	200	4000	120	5	175	1800x1400x78	**1450,-**
KFD 1500V20M	1500	500	500	10000	300	5	130	1600x1200x78	**1270,-**
KFD 1500V20LM	1500	500	500	10000	300	5	175	1800x1400x78	**1460,-**

⬇ Price reduction

5 KERN KFA V20

Weighing beams

STANDARD

IP 67 | 2 DAYS | 3 YEARS WARRANTY

- **Weighing beams and painted steel base**
- **4 load cells, alloy steel, silicone-coated, IP67**
- **Levelling feet** for precise levelling of the weighing beams
- D Image below: Version up to 6 t available. Each weighing beam has a roller and handle for easy transport of the scale (KERN KFA-L)
- Accessories page 133 (KERN UFA)

6 KERN KFU V20

U-Weighing bridge

STANDARD | FACTORY

IP 67 | 2 DAYS | 3 YEARS WARRANTY | M

- Load range: painted steel (V20), height 90 mm
- **4 load cells, alloy steel, silicone-coated, IP67, OIML-R60-approval for verification,** class III, 3000 e
- **2 rollers and handle** for easy transport of the scale
- Accessories page 134 (KERN UFB)

7 KERN KFU V30

U-Weighing bridge

STANDARD | FACTORY

IP 67 | INOX | 2 DAYS | 3 YEARS WARRANTY | M

- Load range: stainless steel (V30), height 90 mm
- **4 load cells, alloy steel, silicone-coated, IP67, OIML-R60-approval for verification** class III, 3000 e
- **2 rollers and handle** for easy transport of the scale
- Accessories page 136 (KERN UFN)

D

12

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Min. load [Min] g	Add. preload kg	Cable length approx. m	Net weight approx. kg	Weighing plate mm	Price excl. VAT, ex works €
5 Weighing beams KFA V20									
KFA 1500V20	1500	500	–	–	300	5	35	2x 1200x120x100	**820,-**
KFA 3000V20	3000	1000	–	–	500	5	35	2x 1200x120x100	**820,-**
KFA 3000V20L	3000	1000	–	–	500	5	64	2x 2000x120x100	**1000,-**
KFA 6000V20	6000	2000	–	–	500	5	82	2x 1200x163x80	**1140,-**
KFA 6000V20L	6000	2000	–	–	500	5	125	2x 2000x160x85	**1440,-**
6 U-Weighing bridge KFU V20									
KFU 600V20M	600	200	200	4000	120	5	41	842x1300x90	**690,-** ⬇
KFU 1500V20M	1500	500	500	10000	300	5	41	842x1300x90	**690,-** ⬇
7 Stainless steel U-Weighing bridge KFU V30									
KFU 600V30M	600	200	200	4000	120	5	42	842x1300x90	**1700,-**
KFU 1500V30M	1500	500	500	10000	300	5	42	842x1300x90	**1700,-**

⬇ Price reduction

8 KERN KFP V30

Platform

STANDARD: IP 67 · INOX · 2 DAYS · 3 YEARS WARRANTY

FACTORY: M

- 8 **Stainless steel-weighing plate,** E Stainless steel substruction
- **1 load cell, Stainless steel, silicone-coated, IP67, OIML-approved,** class III, 3000 e
- **Level indicator and levelling feet** for precise levelling of the scale

9 KERN KFP V40

Weighing bridge

STANDARD: IP 68 · INOX · 2 DAYS · 3 YEARS WARRANTY

FACTORY: M

- **Weighing bridge entirely made of stainless steel,** extremely resistant to bending because of its high material thickness
- F Weighing plate fixed with stainless steel screws, for easier access to the loadcells from above
- **4 load cells, stainless steel, encapsulated, IP68, OIML-R60-approved,** class III, 3000 e
- Can be built in using pit frames (optional)
- **Level indicator and levelling feet** for precise levelling of the scale
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 131 (KERN BFN)

10 KERN KFD V40

Weighing bridge

STANDARD: IP 68 · INOX · 2 DAYS · 3 YEARS WARRANTY

FACTORY: M

- **Weighing bridge made from stainless steel,** two integrated access ramps, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- **4 load cells, stainless steel, encapsulated IP68, OIML-R60-approval for verification,** class III, 3000 e
- **Level indicator and levelling feet** for precise levelling of the scale
- Accessories page 139 (KERN NFN)

E

F

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Min. load [Min] g	Add. preload kg	Cable length approx. m	Net weight approx. kg	Weighing plate mm	Price excl. VAT, ex works €
8 Stainless steel platform KFP V30									
KFP 15V30M	15	5	5	100	2	2,5	4,6	300x240x96	**470,-**
KFP 30V30M	30	10	10	200	5	2,5	9,7	400x300x128	**545,-**
KFP 60V30M	60	20	20	400	5	2,5	9,7	400x300x128	**530,-**
KFP 60V30LM	60	20	20	400	7	2,5	14,3	500x400x137	**630,-**
KFP 60V30XLM	60	20	20	400	10	2,5	20,75	650x500x142	**960,-**
KFP 150V30SM	150	50	50	1000	5	2,5	9,7	400x300x128	**520,-**
KFP 150V30M	150	50	50	1000	7	2,5	14,3	500x400x137	**630,-**
KFP 150V30LM	150	50	50	1000	10	2,5	20,75	650x500x142	**950,-**
KFP 300V30M	300	100	100	2000	10	2,5	20,75	650x500x142	**940,-**
9 Stainless steel weighing bridge KFP V40									
KFP 600V40SM	600	200	200	4000	80	5	85	1000x1000x80	**2610,-**
KFP 1500V40SM	1500	500	500	10000	160	5	85	1000x1000x80	**3330,-**
KFP 1500V40M	1500	500	500	10000	160	5	175	1500x1250x80	**3330,-**
KFP 3000V40M	3000	1000	1000	20000	240	5	175	1500x1250x80	**3350,-**
10 Stainless steel weighing bridge KFD V40									
KFD 600V40M	600	200	200	4000	120	5	130	1600x1200x45	**2880,-**
KFD 1500V40M	1500	500	500	10000	300	5	130	1600x1200x45	**2880,-**

13 Pallet truck scales

Weighing and transporting – just one operation

Speed up your warehouse and dispatch processes with the KERN pallet truck scales.

Get the exact weight of a load and at the same time, transport it to a specific location, all in one operation. This reduces commissioning times and avoids queues in front of fixed floor scales.

These mobile weighing solutions are space-saving and deliver reliable weighing results. Differences between given and actual weights can be determined quickly e.g. in the goods-in and out department. This uncovers inaccurate quantities, saves time and money and therefore ensures a very short amortisation period of the scales original cost.

KERN offers a carefully coordinated range from the affordable entry level model to the comfort model with printer and removable battery pack.

KERN pallet truck scales are of robust industrial quality, with high-level protection against dust and water splashes, with high-contrast, easy-to-read displays as well as solid wheels and load rollers – all this helps to give you practical support in your work – day after day.

Of course, all KERN pallet truck scales can also be calibrated and delivered with a DAkkS calibration certificate (optional). This ensures the high level of accuracy of your pallet truck scale.

Quick-Finder Pallet truck scales

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	CAL EXT	IP	BATT	ACCU
						For an explanation on the pictos, see the front flap			
1 kg	2 t	**VHB 2T1**	**1350,-**	157	2	●	●	○	
1 kg	2 t	**VFB 2T-3**	**1430,-**	156	2	●	●		○
1 kg	2 t	**VFS 2T1**	**1780,-**	158	2	●	●		○
5 kg	2 t	**VHE 2T5A**	**830,-**	155	2	●	●	○	

● = Standard ○ = Option

HIGH-LIGHT

only € 830,-

KERN VHE

▸ page 155

Your product specialist's recommendation:

- **The power pack in the dispatch department and the warehouse**
- **The display device is well-protected by a metal frame**
- **Optimised load rollers so that you can get over rough ground more easily and greater manoeuvrability**

Katharina Queitsch
Product specialist Pallet truck scales

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Pallet truck scale KERN VHE-A

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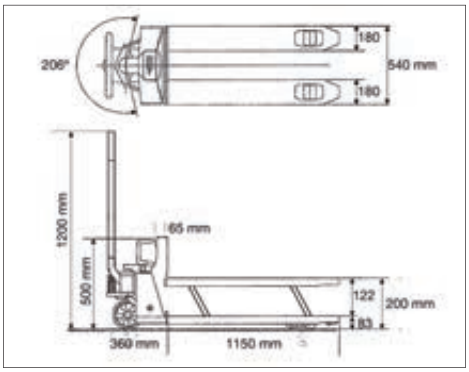


Entry-level model into mobile weighing

Features

- **Highly versatile for general checkweighing**, e.g.: plausibility check at goods receiving, determining shipping weights, avoiding overloads, safety checks
- **Very manoeuvrable** thanks to its compact construction and low weight
- **Particularly robust** with its components having been relocated from the load fork into the protected housing area. It is therefore also ideal for heavy applications in the production area and on board lorries
- A **Display device:** Protection against dust and water splashes IP65
- **Low height of the loading forks** easy uplifting to work with low pallets
- **Pivot range 206°**
- **Castors:** Solid rubber on aluminium rims
- **Load rollers:** Polyurethane

- **Operation**:
  1 Switch on and then pump up the load fork to the reference height
  2 Tare off
  3 Release the load fork and load the goods to be weighed
  4 Weighing: Pump the load fork with the goods to be weighed up to the reference height, read off the weight
- **Ready for use**: Batteries included 2 x 1.5 V AA. AUTO-OFF function to preserve the batteries. Operating time approx. 1 year/approx. 3000 weighings. Charge status indicator on display

Technical data

- Large LCD display, digit height 18 mm

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD

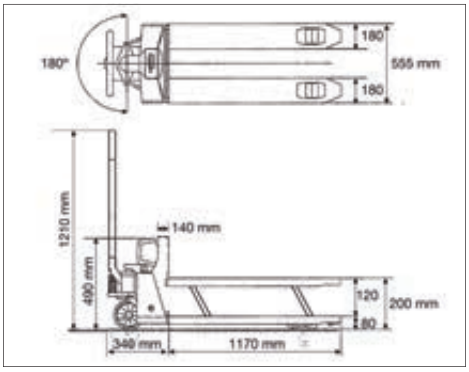
CAL EXT · IP 65 A · BATT · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] kg	Net weight approx. kg	Permissible ambient temperature °C	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate** DKD KERN	 €
VHE 2T5A	2000	5	65	-10 °C / 40 °C	**830,-**	963-131	220,-

Pallet truck scale KERN VFB



Pallet truck scale with totalising function for weights and integrated rechargeable battery pack

Features

- **PRE-TARE function** for manual deduction of a known container weight (e.g. pallet, mesh crate etc.)
- 1 **Load fork:** Protection against dust and water splashes IP67, temporary use in wet areas possible
- **Pivot range 180°**
- **Castors:** Solid rubber on aluminium rims
- 2 **Load rollers:** Tandem tyres to overcome thresholds and obstacles more easily. Material: Polyurethane
- **Check the weighing range** which is in use at the press of a button (net/gross weight)
- **Totalising** of weights
- **Rechargeable battery pack internal**, standard, operating time up to 40 h without backlight, charging time approx. 12 h. Can be re-ordered KERN VFB-A02, **€ 40,-**

Technical data

- 3 Backlit LCD display, digit height 22 mm

Accessories

- **Protective working cover** over the display device, can be retrofitted, KERN VFB-A01S05, **€ 25,-**

Note: As standard, the unit is dispatched without the shaft and display fitted. The shaft and display can be fitted at our factory for an additional cost, delivery + 2 working days, KERN VFS-M01, **€ 150,-**
Please state when ordering

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD

CAL EXT · SUM · IP 67 (1) · ACCU · MULTI · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS
only with VFS-M01

Model KERN	Weighing range [Max] kg	Readout [d] kg	Net weight approx. kg	Permissible ambient temperature °C	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate** DKD KERN	 €
VFB 2T-3	2000	1	126	-10 °C / 40 °C	**1430,-**	963-131	220,-

Pallet truck scale KERN VHB

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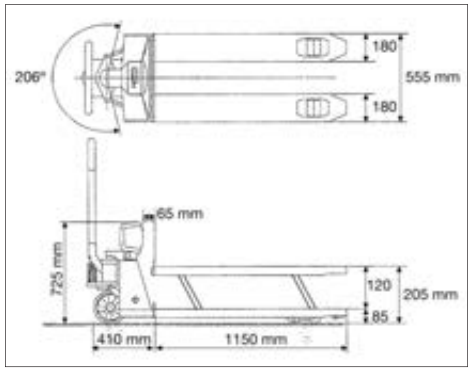

Pallet truck scale with complete protection against dust and water splashes IP65/67 and a memory for a container weight

Features

- **PRE-TARE function** for manual subtraction of a known container weight, value can be saved
- 1 **Display device:** Protection against dust and water splashes IP65
- 2 **Load fork:** Protection against dust and water splashes IP67, temporary use in wet areas possible
- **Pivot range 206°**
- **Castors:** Solid rubber on aluminium rims
- 3 **Load rollers:** Tandem tyres to overcome thresholds and obstacles more easily. Material: Polyurethane
- **Totalising** of weights
- **Ready for use**: Batteries included (4 x 1.5 V AA). AUTO-OFF function to preserve the batteries. Operating time approx. 80 h / 1700 weighings

Technical data

- Large LCD display, digit height 28 mm

Accessories

- **Castors made of red polyurethane on aluminium rims**. Ideal for light-coloured flooring as they leave less visible abrasive marks. Suitable for the current models of the pallet truck scale ranges KERN VHB, KERN VHS (when retrofitting, please give the serial number of the pallet truck scale available when ordering), KERN VHB-A02, **€ 120,-**

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

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STANDARD

CAL EXT · UNIT · SUM · IP 65 [1] · IP 67 [2] · BATT · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] kg	Net weight approx. kg	Permissible ambient temperature °C	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate** DKD KERN	€
VHB 2T1	2000	1	120	-10 °C / 40 °C	**1350,-**	963-131	220,-

Pallet truck scale KERN VFS

PREMIUM ★★★

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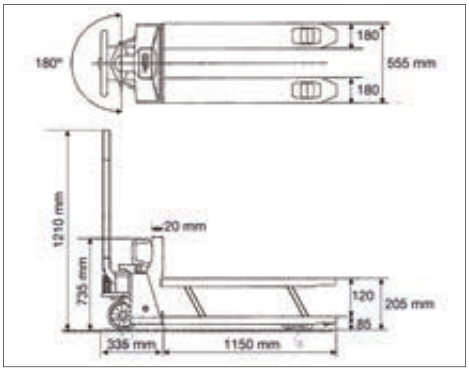

Pallet truck scale with large display, integrated printer, rechargeable battery pack and complete dust and spray protection to IP 65/67

Features

- **PRE-TARE function** for manual deduction of a known container weight (e.g. pallet, mesh crate etc.)
- 1 **Display device:** Protection against dust and water splashes IP65
- 2 **Load fork:** Protection against dust and water splashes IP67, temporary use in wet areas possible
- **Pivot range 180°**
- **Castors:** Solid rubber on aluminium rims
- **Load rollers**: Tandem tyres to overcome thresholds and obstacles more easily. Material: Polyurethane
- **Rechargeable battery pack internal**, standard, operating time up to 60 h, charging time approx. 12 h. Can be re-ordered, KERN HFM-A01, **€ 50,-**
- 3 **Integrated thermal printer**, standard. Printout with date and time. Width of paper 56 mm, 20 characters/line, print-out speed up to 45 mm/sec, temperature range 0 °C / +40 °C

Technical data

- Large backlit LCD display, digit height 52 mm

Accessories

- **Thermal receipt rolls** (10 pieces), width 56 mm, Ø 51 mm, KERN RFS-A10, **€ 40,-**

Note: As standard, the unit is dispatched without the shaft and display fitted. The shaft and display can be fitted at our factory for an additional cost, delivery + 2 working days, KERN VFS-M01, **€ 150,-**
Please state when ordering

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD

CAL EXT · SUM · IP 65 [1] · IP 67 [2] · ACCU · MULTI · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS
only with VFS-M01

Model KERN	Weighing range [Max] kg	Readout [d] kg	Net weight approx. kg	Permissible ambient temperature °C	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate**	
						DKD KERN	€
VFS 2T1	2000	1	125	-10 °C / 40 °C	**1780,-**	963-131	220,-

! **ONLY WHILE STOCKS LAST**

TÜV-tested safety

KERN puts great emphasis on safety. For your safety, all KERN hanging and crane scales are subject to a stringent load test in accordance with EN 13155 and EN 61010-1 industry standards.

New in the KERN crane scale range: Compact crane scales/load receptors/tensile dynamometers – KERN HFA and HFC.

As well as the classic crane scales, we also have electronic tensile dynamometers which are extremely versatile thanks to their stable, compact construction. They can, for example, be fitted into testing machines, used for checking for overload, for bracing and tensile force measurement, etc.

This type of device is ideally suited for use between shackles or with a test bench. This is where the benefit of this construction comes to the fore, as the tensile force can be applied in both directions. These compact crane scales are also particularly suitable when weighing suspended loads where space is tight.

At the core of this construction is a robust load cell. Through the absence of moving parts, these balances are practically maintenance and wear free.

Tip

DAkkS calibration certificates (DKD) for crane scales up to 12 t

Do you use crane scales in ISO-certified processes? Then we can produce the right calibration certificate for your measuring device. Thanks to a modern crane scale test unit, we can calibrate crane scales and force-measuring devices from any manufacturer to a maximum load of up to 12 t or 120 KN. You can find all the important details on pages 209, 213 or directly from one of our calibration specialists, we will be pleased to help you.

Your product specialist's recommendation:

- **For loads up to 10 tonnes**
- **High-contrast display for optimum readability from a distance**
- **TÜV-tested safety**

Lisa Mayer
Product specialist
Hanging scales/Crane scales

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lisa.mayer@kern-sohn.com

from € 1020,–

KERN HFO

▸ page 166

Quick-Finder Hanging scales/Crane scales

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL EXT	RS 232	MOVE	IP	INOX	BATT	ACCU
					For an explanation on the pictos, see the front flap								
5 g	5 kg	**HDB 5K5N**	**60,-**	161	1		●		●			●	
10 g	10 kg	**HDB 10K10N**	**60,-**	161	1		●		●			●	
10 g	20 kg	**HCB 20K10**	**105,-**	162	1		●		●			●	
20 g	15 kg	**CH 15K20**	**71,-**	161	1		●		●			●	
20 g	50 kg	**HCB 50K20**	**115,-**	162	1		●		●			●	
50 g	50 kg	**CH 50K50**	**76,-**	161	1		●		●			●	
50 g	99 kg	**HCB 99K50**	**100,-**	162	1		●		●			●	
50 g	150 kg	**HFB 150K50**	**355,-**	165	1		●						●
100 g	50 kg	**CH 50K100**	**66,-**	161	1		●		●			●	
100 g	50 kg	**HCB 50K100**	**90,-**	162	1		●		●			●	
100 g	50 kg	**HCN 50K100IP**	**130,-**	162	1		●		●	●	●	●	
100 g	200 kg	**HCB 200K100**	**110,-**	162	1		●		●			●	
100 g	300 kg	**HFB 300K100**	**385,-**	165	1		●						●
100 g	1 t	**HFM 1T0.1**	**710,-**	166	1		●						●
200 g	100 kg	**HCB 100K200**	**110,-**	162	1		●		●			●	
200 g	100 kg	**HCN 100K200IP**	**130,-**	162	1		●		●	●	●	●	
200 g	600 kg	**HFB 600K200**	**385,-**	165	1		●						●
200 g	600 kg	**HFA 600K-1**	**590,-**	163	1		●					○	●
500 g	200 kg	**HCB 200K500**	**99,-**	162	1		●		●			●	
500 g	200 kg	**HCN 200K500IP**	**130,-**	162	1		●		●	●	●	●	
500 g	1 t	**HFA 1T-4**	**690,-**	163	1		●					○	●
500 g	1 t	**HFC 1T-4**	**990,-**	164	1		●					○	●
500 g	1 t	**HFO 1.5T0.5M**	**1020,-**	166	1	○	●						●
500 g	1,5 t	**HTS 1T-4AM**	**1140,-**	167	1	○	●						●
500 g	3 t	**HFM 3T0.5**	**740,-**	166	1		●						●
500 g	3 t	**HFT 3T0.5**	**1200,-**	168	2*		●	●	●				●
500 g	5 t	**HFM 5T0.5**	**960,-**	166	1		●						●
1000 g	0,5 t	**HCB 0.5T-3**	**215,-**	162	1		●		●			●	
1000 g	3 t	**HFA 3T-3**	**750,-**	163	1		●					○	●
1000 g	3 t	**HFC 3T-3**	**1050,-**	164	1		●					○	●
1000 g	3 t	**HFO 3T1M**	**1150,-**	166	1	○	●						●
1000 g	3 t	**HTS 3T-3AM**	**1200,-**	167	1	○	●						●
1000 g	5 t	**HFT 5T1**	**1440,-**	168	2*		●	●	●				●
1000 g	10 t	**HFM 10T1**	**1250,-**	166	1		●						●
2000 g	1 t	**HCB 1T-3**	**275,-**	162	1		●		●			●	
2000 g	5 t	**HFA 5T-3**	**790,-**	163	1		●					○	●
2000 g	5 t	**HFC 5T-3**	**1090,-**	164	1		●					○	●
2000 g	6 t	**HTS 6T-3AM**	**1270,-**	167	1	○	●						●
2000 g	6 t	**HFO 6T2M**	**1450,-**	166	1	○	●						●
2000 g	10 t	**HFT 10T2**	**1790,-**	168	2*		●	●	●				●
5000 g	10 t	**HFA 10T-3**	**1040,-**	163	1		●					○	●
5000 g	10 t	**HFC 10T-3**	**1350,-**	164	1		●					○	●
5000 g	10 t	**HTS 10T-3AM**	**1410,-**	167	1	○	●						●
5000 g	15 t	**HFT 15T5**	**2650,-**	168	2*		●	●	●				●

□ = News 2016 2* = Delivery by truck, please ask for prices ● = Standard ○ = Option

Hanging scales KERN HDB-N · CH

KERN HDB-N

KERN CH

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Convenient, economical and always handy

Features

- 1 With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function:** For easy reading of the weighing result, the display can be „frozen“ in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key

Technical data

HDB-N:

- **Hook (stainless steel)**, can be hinged
- **Ready for use:** Batteries included 2 x 1.5 V AAA, operating time up to 180 h, AUTO-OFF function to preserve the battery, can be switched off
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C / 35 °C

CH:

- **Hook (stainless steel)**
- 2 **Tape measure**, extractable, length approx. 100 cm
- **Peak load display** (peak hold), measuring frequency 5 Hz
- **Ready for use:** 9 V block included, operating time up to 20 h. AUTO-OFF function to preserve the batteries, can be switched off
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- 3 **Tare pan with retaining bracket** suitable for KERN HDB-N and KERN CH 15K20, for details see page 182, KERN CH-A01N, **€ 67,-**

14

STANDARD

CAL EXT · UNIT · MOVE · BATT · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	LCD display, digit height mm	Dimensions housing WxDxH mm	Height with hook mm	Net weight approx. kg	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	€
HDB 5K5N	5	5	12	70x25x105	195	0,15	**60,-**	963-127H	72,-
HDB 10K10N	10	10	12	70x25x105	195	0,15	**60,-**	963-128H	88,-
CH 15K20	15	20	11	90x30x176.5	270	0,25	**71,-**	963-128H	88,-
CH 50K50	50	50	11	90x30x176.5	270	0,25	**76,-**	963-128H	88,-
CH 50K100	50	100	11	90x30x176.5	270	0,25	**66,-**	963-128H	88,-

Hanging scales KERN HCB · HCN

KERN HCB

KERN HCN

The handy scales for higher loads up to 1 t

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HCB:

- **Ready for use**: Batteries included 3 x 1.5 V AA, operating time up to 300 h
- 2 HCB with [Max] ≥ 0,5 t: Reinforced version for heavy loads. Snap link and Hook not included

HCN:

- Housing stainless steel, IP65 protection
- 3 **Second display** on the rear of the balance
- **Ready for use**: 2 x 1.5 V AA, operating time up to 200 h

Features

- 1 With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Essential too in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function:** For easy reading of the weighing result, the display can be „frozen“ in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- **Peak load display** (peak hold), measuring frequency 5 Hz

Technical data

- LCD display, digit height 11 mm
- Hole diameter of load support, model with [Max] ≤ 200 kg: approx. 14 mm [Max] > 200 kg: approx. 16 mm

Accessories for models with [Max] ≤ 200 kg

- **Hook (stainless steel)** standard, opening approx. 25 mm, can be retrofitted, KERN HCB-A02, **€ 30,-**
- **Snap link (stainless steel) with safety catch** standard, opening approx. 15 mm, can be retrofitted, KERN HCB-A01, **€ 33,-** Batteries included

Accessories for models with [Max] ≤ 20 kg

- **Tare pan with retaining bracket**, for details see page 182, KERN CH-A01N, **€ 67,-**

STANDARD

CAL EXT · UNIT · MOVE · IP 65 (only HCN) · INOX (only HCN) · BATT · 1 DAY · 2 YEARS WARRANTY

OPTION

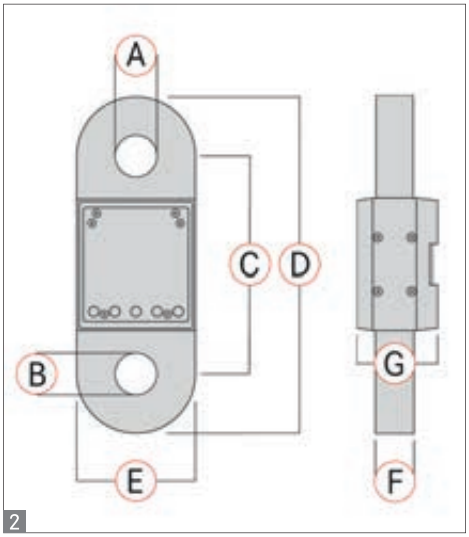
DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Dimensions housing WxDxH mm	Height with snap link and hook mm	Net weight approx. kg	**Price** excl. of VAT ex works €	Option **DAkkS Calibr. Certificate** DKD KERN	€
HCB 20K10	20	10	80x45x150	290	0,4	**105,-**	963-128H	88,-
HCB 50K20	50	20	80x45x150	290	0,4	**115,-**	963-128H	88,-
HCB 50K100	50	100	80x45x150	290	0,4	**90,-**	963-128H	88,-
HCB 99K50	99	50	80x45x150	290	0,4	**100,-**	963-129H	105,-
HCB 100K200	100	200	80x45x150	290	0,4	**110,-**	963-129H	105,-
HCB 200K100	200	100	80x45x150	290	0,4	**110,-**	963-129H	105,-
HCB 200K500	200	500	80x45x150	290	0,4	**99,-**	963-129H	105,-
HCB 0.5T-3	500	1000	82x42.5x152	-	0,35	**215,-** ↓	963-130H	165,-
HCB 1T-3	1000	2000	80x48x150	-	0,52	**275,-** ↓	963-130H	165,-
stainless steel								
HCN 50K100IP	50	100	95x55x175	315	0,8	**130,-**	963-128H	88,-
HCN 100K200IP	100	200	95x55x175	315	0,8	**130,-**	963-129H	105,-
HCN 200K500IP	200	500	95x55x175	315	0,8	**130,-**	963-129H	105,-

↓ Price reduction

Crane scale KERN HFA

1



2

Compact crane scale with integrated display can also be used for tensile force measurement

Features

- 1 With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
- Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- Ideally suited for determining weight quickly while loading and unloading
- **Peak load display** (peak hold)
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- **Tare:** Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed

Technical data

- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with
  [Max] ≤ 3 t: aluminium/stainless steel bearing
  [Max] > 3 t: steel/steel
- Rechargeable battery pack internal, standard. Can be re-ordered, KERN HFA-A01, **€ 40,-**
  operating time up to 30 h, charging time approx. 12 h, internal charging via mains adapter, charge status indicator on display
- Optional battery operation, 3 x 1.5 V AA not included, operating time up to 40 h
- Precision: 0,2 % of [Max]
- Measuring frequency: 60 Hz
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C / 35 °C

14

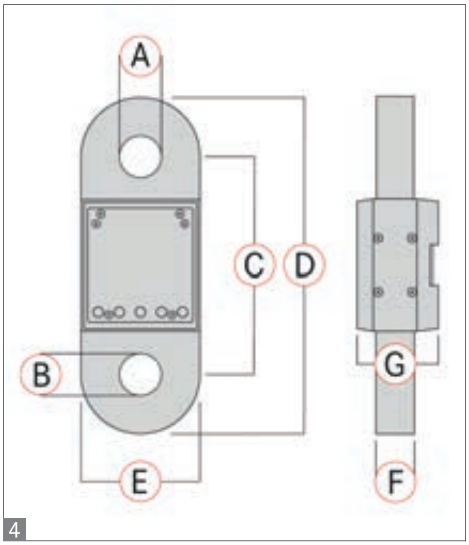
STANDARD: CAL EXT · UNIT · BATT · ACCU · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	2 Dimensions A = B mm	C mm	D mm	E mm	F mm	G mm	Net weight approx. kg	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate** DKD KERN	€
HFA 600K-1	600	200	27	165	255	90	30	55	1,8	**590,-**	963-130H	165,-
HFA 1T-4	1000	500	27	165	255	90	30	55	1,8	**690,-**	963-130H	165,-
HFA 3T-3	3000	1000	27	165	255	90	30	61	1,8	**750,-**	963-132H	500,-
HFA 5T-3	5000	2000	30	165	255	90	30	61	3,9	**790,-**	963-132H	500,-
HFA 10T-3	10000	5000	40	185	275	90	40	71	5,5	**1040,-**	963-133H	700,-

Crane scale KERN HFC

1



4

Compact crane scale for use in harsh environmental conditions or where space is limited, with convenient hand-held terminal

Features

- 1 With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
- Because of its **compact design** it is also ideally suited for installation in systems where space is limited, etc.
- **Peak load display** (peak hold)
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- **Tare:** Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- 2 **Display device with integrated radio module**, which the user can carry around with him, thanks to the convenient hand strap 3. In this way the weighing data can always be read off the display device by the user, even when the user is a long way from the load receptor (force gauge) or under poor lighting conditions. Standard. Range up to 100 m. All functions can be selected. LCD display, digit height 23 mm, rechargeable battery pack internal, standard. Operating time up to 30 h without backlight, charging time approx. 12 h. Can be re-ordered, KERN HFC-A01, **€ 60,-**
- Dimensions Housing (display device) WxDxH 88x64x256 mm
- Net weight approx. 0,5 kg

Technical data

- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with
  [Max] ≤ 3 t: aluminium/stainless steel bearing
  [Max] > 3 t: steel/steel
- Load lifting attachments: Optional battery operation, 3 x 1.5 V AA not included, operating time up to 40 h
- Precision: 0,2 % of [Max]
- Measuring frequency: 60 Hz
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- 5 **Rechargeable battery pack internal** for load lifting attachments, operating time up to 15 h, charging time approx. 12 h, KERN HFA-A01, **€ 40,-**

STANDARD

CAL EXT | UNIT | BATT (only load support) | ACCU | MULTI | DMS | 1 DAY | 3 YEARS WARRANTY

2

OPTION

ACCU | DAkkS +3 DAYS

5

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	4 Dimensions A = B mm	C mm	D mm	E mm	F mm	G mm	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	 €
HFC 1T-4	1000	500	1,7	27	165	255	90	30	55	**990,-**	963-130H	165,-
HFC 3T-3	3000	1000	2,2	27	165	255	90	30	61	**1050,-**	963-132H	500,-
HFC 5T-3	5000	2000	3,9	30	165	255	90	30	61	**1090,-**	963-132H	500,-
HFC 10T-3	10000	5000	6,0	40	185	275	90	40	71	**1350,-**	963-133H	700,-

Crane scale KERN HFB

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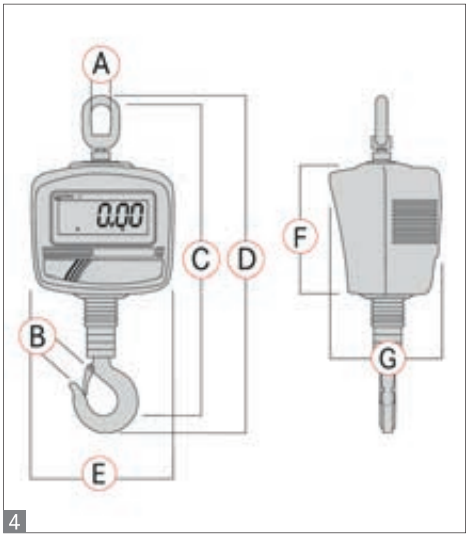
2

3

4



The professional alternative up to 600 kg with rear-facing second display

Features

- 1 With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- 2 **Second display** on the rear of the scale
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department etc.)
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- **Tare:** Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- **Hook with safety catch**, revolving
- Shackle and hook connection made of nickel-plated steel
- 3 **Radio remote control** standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). WxDxH 48x10x95 mm. Batteries included, 2 x 1,5 V AAA

Technical data

- Superior display size: digit height 25 mm. Bright backlight for easy reading of weight, even from a distance
- Dimensions housing WxDxH 162x123x158.5 mm
- Rechargeable battery pack internal, standard, operating time approx. 40 h, charging time approx. 14 h with mains adapter, charge status indication visualised through LED
- Precision: 0.2 % from [Max]
- Permissible ambient temperature 0 °C / 40 °C

STANDARD

CAL EXT · UNIT · ACCU · MULTI · DMS · 1 DAY · 2 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	4 Dimensions A mm	B mm	C mm	D mm	E mm	F mm	G mm	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	€
HFB 150K50	150	50	3,2	26	25	358	390	163	158,5	126	**355,-**	963-129H	105,-
HFB 300K100	300	100	3,2	26	25	358	390	163	158,5	126	**385,-**	963-129H	105,-
HFB 600K200	600	200	3,2	26	25	358	390	163	158,5	126	**385,-**	963-130H	165,-

Crane scales KERN HFM · HFO

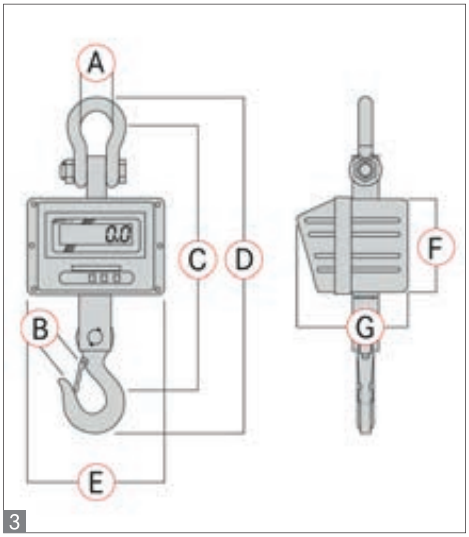
KERN HFM

KERN HFO

NEW

1

2



3

Industrial crane scale up to 10 t – now also with EC type approval [M]

Features

- 1 With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- **Professional device for robust applications** in production, quality control, logistics etc.
- Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department etc.)
- Adaptation to unstable environmental conditions by changing the readability
- High resolution readout: Readout [d] for 5 sec increased by one decimal place at the touch of a key, only for models with EC type approval
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- **Tare:** Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- **Hook with safety catch**, revolving
- 2 **Radio remote control** standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). WxDxH 48x10x95 mm. Batteries included, 2 x 1,5 V AAA

Technical data

- Superior display size: digit height 30 mm. Luminescent LED display of weight values, even from a distance or under poor lighting conditions
- Rechargeable battery pack internal, standard, operating time up to 50 h, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature -10 °C / 40 °C

STANDARD: CAL EXT · ACCU · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

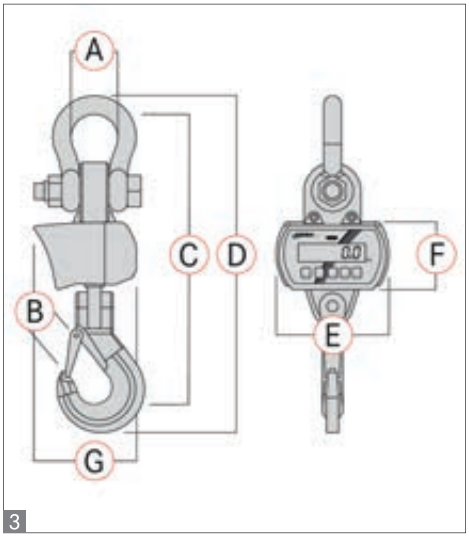
FACTORY: M (only HFO)

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	3 Dimensions A mm	B mm	C mm	D mm	E mm	F mm	G mm	Price excl. of VAT ex works €	Options Verification KERN	 €	Calibr. Certificate DKD KERN	 €
HFM 1T0.1	1000	100	13,2	80	40	540	610	270	200	175	**710,-**	–	–	963-130H	165,-
HFM 3T0.5	3000	500	15,7	75	50	540	610	270	200	175	**740,-**	–	–	963-132H	500,-
HFM 5T0.5	5000	500	22,3	75	50	650	730	300	230	190	**960,-**	–	–	963-132H	500,-
HFM 10T1	10000	1000	34	100	60	750	840	300	230	190	**1250,-**	–	–	963-133H	700,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.															
HFO 1.5T0.5M	1500	500	15	80	40	540	610	270	200	175	**1020,-**	950-130H	200,-	963-130H	165,-
HFO 3T1M	3000	1000	16,5	75	50	540	610	270	200	175	**1150,-**	950-132H	300,-	963-132H	500,-
HFO 6T2M	6000	2000	25	75	50	650	730	300	230	190	**1450,-**	on request	on request	963-132H	500,-

Crane scale KERN HTS

1

2



3

Robust industrial crane scale up to 10 t, with EC type approval [M]

Features

- 1 With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- **Professional device for robust applications** in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department etc.)
- Range of tare: 100 % of [Max]
- LED display with Gross/Tare/Net
- Chargestatus indicator visualised through LED, visual using LED
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key
- **Tare:** Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- Hook **with safety catch**, non-revolving
- 2 **Infrared remote control** standard. Range up to 8 m. All functions can be selected. WxDxH 65x24x100 mm. Batteries included, 9 V

Technical data

- Superior display size: digit height 25 mm. Large backlit LCD display for easy reading of the weight, even from a distance or under poor lighting conditions
- Rechargeable battery pack internal, standard, operating time up to 100 hours with backlight, charging time approx. 12 h. Can be re-ordered, KERN WTB-A01N, **€ 35,-**
- Precision: 0,1 % of [Max]
- Net weight
  HTS 1T-4AM approx 6,2 kg
  HTS 3T-3AM approx 8,5 kg
  HTS 6T-3AM approx 11,5 kg
  HTS 10T-3AM approx 19,9 kg
- Permissible ambient temperature -20 °C / 40 °C

14

STANDARD: CAL EXT · ACCU · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] = [e] g	Minimum load [Min] kg	3 Dimensions A mm	B mm	C mm	D mm	E mm	F mm	G mm	Price excl. of VAT ex works €	Options Verification KERN	Verification €	Calibr. Certificate DKD KERN	Calibr. Certificate €
HTS 1T-4AM	1500	500	10	33	29	315	359	200	121	181	**1140,-**	950-130H	200,-	963-130H	165,-
HTS 3T-3AM	3000	1000	20	43	47	347	369	200	121	181	**1200,-**	950-132H	500,-	963-132H	500,-
HTS 6T-3AM	6000	2000	40	58	55	440	519	200	121	181	**1270,-**	950-132H	500,-	963-132H	500,-
HTS 10T-3AM	10000	5000	100	83	61	335	628	200	121	181	**1410,-**	950-133H	700,-	963-133H	700,-

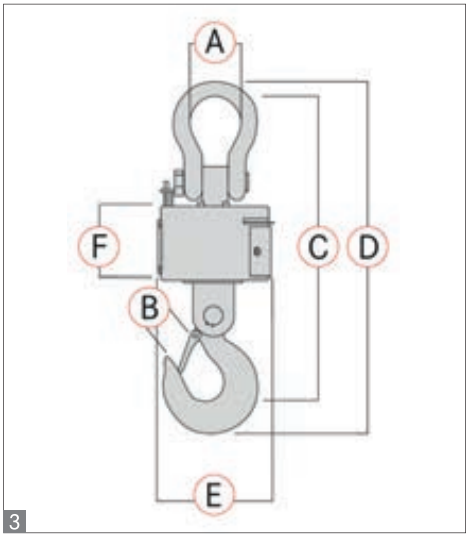
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Crane scale KERN HFT

PREMIUM ★★★

1

2



3

Robust industrial crane scale up to 15 t with radio display and RS-232 data interface for transferring weighing results

Features

- 1 With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- **Professional device for robust applications** in production, quality control, logistics etc. Because of its stable steel construction and robust design, it is ideal for continuous use in industrial applications
- **Weighing unit without display**, therefore very robust
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- **Hook with safety catch**, revolving
- 2 **Display with integrated radio module**, in this way the weighing data can easily be read off the display by the user, even if the user might find himself in a remote distance from the crane scale. Range up to 100 m. The integrated RS-232 data interface allows from connection to a printer, PC or network

Technical data

- Separate display with large, backlit LCD display, digit height 22 mm. Dimensions WxDxH 175x135x39 mm, incl. antenna WxDxH 240x135x55 mm
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Rechargeable battery pack internal**, standard. Can be re-ordered, scale: operating time up to 80 h, charging time approx. 8 h. Can be re-ordered, KERN VFB-A02, **€ 40,-** display device: operating time up to 40 h, charging time 4 h. Can be re-ordered, KERN GAB-A04, **€ 40,-**
- **Interface cable RS-232**, to connect the display device to a printer, PC, etc., cable length approx. 1,5 m, KERN KFF-A01, **€ 46,-**
- **Suitable printers** see page 177

STANDARD

CAL EXT · RS 232 · RC · SUM · MOVE · ACCU · MULTI · DMS · 2 DAYS · 3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	3 Dimensions A mm	B mm	C mm	D mm	E mm	F mm	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DKD KERN	€
HFT 3T0.5	3000	500	28	73	39	545	650	270	145	**1200,-**	963-132H	500,-
HFT 5T1	5000	1000	45	76	51	635	760	270	147	**1440,-**	963-132H	500,-
HFT 10T2	10000	2000	53	92	61	735	840	270	167	**1790,-**	963-133H	700,-
HFT 15T5	15000	5000	73	99	61	842	950	320	160	**2650,-**	963-133H*	700,-

* Calibration up to [Max] = 12 t

Special equipment: Scales to meet Pre-packaging legislation

Pre-packaging legislation (FPVO)

This is anchored in the EC pre-packaging directive 76/211/EEC and serves as consumer protection within the framework of weights and measures laws when selling pre-packaged products commercially. It governs in detail the permitted tolerances (deviations) from the filling quantity stated on the sales label, as well as the quality of the verified balances being used for checking samples.

Pre-packaged products, which are produced and tested in accordance with pre-packaging legislation, carry the ℮ symbol on their label.

Choosing the right verified checkweigher depends, on one hand, on the weighing range required and the largest permitted verification value in relation to the nominal quantity of the pre-packaged goods.

Nominal contents Q_N of the pre-packed goods	largest permitted Verification Value [e]
≤ 10 g (ml)	0,1 g
from 10 g (ml) to ≤ 50 g (ml)	0,2 g
from 50 g (ml) to ≤ 150 g (ml)	0,5 g
from 150 g (ml) to ≤ 500 g (ml)	1,0 g
from 500 g (ml) to ≤ 2,5 kg (l)	2,0 g
from 2,5 kg (l) and more	5,0 g
from 10 kg (l) to ≤ 15 kg (l)	10 g
from 15 kg (l) to ≤ 25 kg (l)	20 g
from 25 kg (l) to ≤ 100 kg (l)	50 g

Volume values in ml or l are calculated using the weight and density of the liquid.

Order example:

The item to be checked is a pre-packaged product with a filling quantity of 250 g and an average tare value of 100 g. In accordance with the table above, a filling quantity of 250 g requires a checkweigher with a verification value [e] of maximum 1 g.

The right KERN product is either the **KERN FKTF 3K0.5LM** or the **FKTF 6K1LM**

Calibration periods for checkweighers: These are usually 1 year and are therefore shorter than the general re-verification periods in many European countries.

Sample testing of a pre-packaged item with an average tare value, e.g. the relative constant packaging weight is entered as a fixed value

Sample testing of a pre-packaged item with fluctuating packaging weight, such as glass containers, e.g. the tare weight is entered individually for each sample.

Sample testing of a pre-packaged item which is empty (destructive analysis)

Sven Göggel
Product specialist Scales to meet Pre-packaging legislation

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Fax +49 [0] 7433 9933 - 195
goeggel@kern-sohn.com

Quick-Finder Scales to meet Pre-packaging legislation

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL EXT	MEMORY	RS 232	BATT
					For an explanation on the pictos, see the front flap					
0,5 g	3 kg	**FKTF 3K0.5LM**	**1050,-**	170	1	○	●	●	●	●
1 g	6 kg	**FKTF 6K1LM**	**1050,-**	170	1	○	●	●	●	●
2 g	12 kg	**FKTF 12K2LM**	**1050,-**	170	1	○	●	●	●	●
5 g	30 kg	**FKTF 30K5LM**	**1050,-**	170	1	○	●	●	●	●
10 g	60 kg	**FKTF 60K10LM**	**1050,-**	170	1	○	●	●	●	●

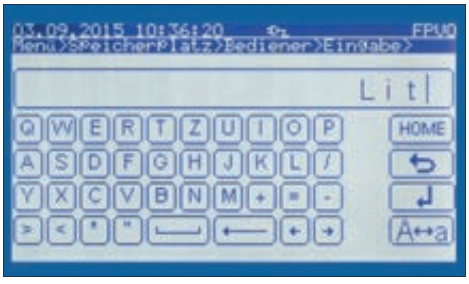
● = Standard ○ = Option

Pre-packaged Products Control Scale KERN FKTF

Modes
① Weighing
② Checkweighing function in accordance with pre-packaging legislation
③ Controlling fill quantities

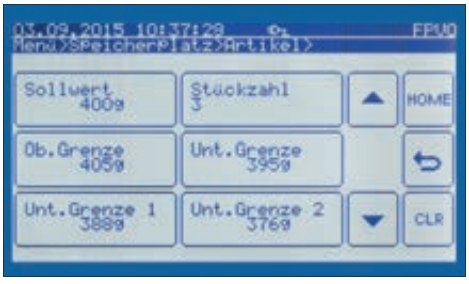
Functions
- Capacity display ①
- Date and time ①, ②, ③
- Tare deduction ②
- 400 item memories for master data, such as limit values, tare weights, items, machine, user as well as UL, LL, LL 1 and LL 2 ②, ③
- Sample testing in accordance with pre-packaging legislation with average tare value ③
- Sample testing in accordance with pre-packaging legislation with fluctuating tare ③
- Testing in accordance with pre-packaging legislation with an empty item (destructive analysis) ②, ③
- Daily statistics from 10 sets of measurements ③
- Weekly statistics from 49 sets of measurements ③

Checkweigher with touch screen operation for sampling tests in accordance with certified pre-packaging legislation and controlling fill quantities in the production process



Easy input of text and values
Using large keypad, e.g. packaging weights, item descriptions, user name, etc.

Clear user guidance with buttons labelled with plain text, which saves time and means that operating errors are avoided



400 item memories for master data such as PRE-TARE (packaging weight), free limit values, user name, machine number, batch description etc.

Pre-packaged Products Control Scale KERN FKTF

Features

- **Touchscreen bench scale** with special software for testing, in accordance with weights and measures regulations, that the permitted error limits (minus deviations) have been observed, in accordance with pre-packaging legislation, and for production control and monitoring when filling pre-packaged items to a target weight.
- **The verifiable KERN FKTF** fulfills all the regulations of pre-packaging legislation. It has EC type approval which fulfils verification requirements, and which covers the special software for pre-packing legislation.
- **The special software for pre-packaging legislation in the KERN FKTF has two functions:**

a) When selling pre-packaged products, filling tolerances are regulated in verfication terms, in the interests of consumer protection. Here the software supports compliance with the verification regulations of the pre-packaging legislation during certified sampling tests using the automatically generated largest permitted negative deviation compared with a given target weight (LL 2).

b) In the area of food stuff production, when setting and adjusting the production facility for filling pre-packaged goods to a target weight, the software will automatically display the lower limit value (LL 1) below which the item is not permitted.

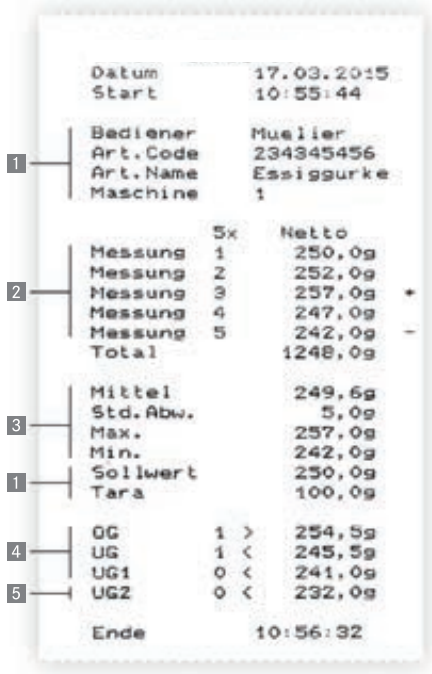
- **Statistical function** in the form of daily and weekly records, also with date/time, machine number and user statement. Graphic display is also possible.
- **Password protection** for secure manipulation of data which has been stored and collected

Technical data

- Backlit LCD graphic display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Weighing plate dimensions, stainless steel, WxD 340x240 mm
- Dimensions housing WxDxH 350x390x120 mm
- Optional battery operation, 6 x 1.5 V Size C not included, operating time up to 15 h
- Net weight approx. 6,5 kg
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN FKB-A02S05, **€ 25,-**
- **Matrix needle printer,** to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, **€ 330,-**
- **Suitable printers** see page 177



- 1 Operator, Item code, Item name, Machine, Filling quantity target value 250g, Average tare value 100g are entered using the touchscreen keypad
- 2 The measurements taken are captured and stored automatically
- 3 Average value, Standard deviation, Max. value, Min. value are calculated automatically
- 4 The upper/lower limit values (UL/LL) for setting and adjusting the production facility are stored by the machine operator in the pre-packaging legislation software of the checkweigher. In the course of checking pre-packaged items in accordance with pre-packaging legislation, please note that the value must not fall below the lower limit value LL 1 during production
- 5 The LL 2 value is the permitted lower limit in accordance with pre-packaging legislation for on-site sampling tests in accordance with weights and measures regulations.

STANDARD | OPTION | FACTORY

CAL EXT · MEMORY · RS 232 · GLP INTERN · BATT · B MULTI · DMS · 1 DAY · 3 YEARS WARRANTY · DAkkS +3 DAYS · M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Nominal quantity g	Price excl. of VAT ex works €	Option Verification MID KERN	 €	DAkkS Calibr. Certificate DKD KERN	 €
FKTF 3K0.5LM	3	0,5	0,5	10	50	**1050,-**	950-127	55,-	963-127	72,-
FKTF 6K1LM	6	1	1	20	150	**1050,-**	950-128	55,-	963-128	88,-
FKTF 12K2LM	12	2	2	40	500	**1050,-**	950-128	55,-	963-128	88,-
FKTF 30K5LM	30	5	5	100	2500	**1050,-**	950-128	55,-	963-128	88,-
FKTF 60K10LM	60	10	10	200	10000	**1050,-**	950-129	93,-	963-129	105,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

ATEX – Safe weighing in potentially explosive atmospheres!

ATEX is derived from the French words for explosive atmosphere (**AT**mosphère **EX**plosible) and is a synonym for EU guidelines, for the quality and the use of equipment in hazardous industrial environments

ATEX balances were developed specifically for those areas where there is explosion danger, e.g. through handling of flammable substances, which are present in high con-centrations in the form of gas, mist, vapour or dust.

Typical fields of application are to be found, for example, in the crude oil processing industry, e.g. in all kinds of refineries. But also in the pharmaceutical or chemical industries, where you are processing oils, alcohols or Benzenes, in the manufacture of paints and lacquers, as well as in the cosmetics industry in the manufacture of alcohol-based cosmetics.

Note: Power supply to the ATEX scales is from a power source outside the explosion-proof area.

Taras Mikitisin
Product specialist ATEX scales

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Fax +49 [0] 7433 9933 - 137
mikitisin@kern-sohn.com

ATEX balances are divided into different protection classes, depending on the level of danger.

The KERN ATEX balances are permitted for the following protection classes:
Model KERN IEX: **II 2 G II B T4**
Model KERN OEX: **II 2 G II C T4**

II 2 G II B/C T4

Device group
II: Devices to be used outside the mining industry

Substance group
G: Gas

Temperature classes
T4: Max. surface temperature of the apparatus 135° Celsius
Ignition temperature of gas > 135° Celsius

Device category
2: Devices can be used in Zone 1. In this zone, it is expected that an explosive atmosphere will occur occasionally in normal operation.

Explosion class
II: Devices which are to be operated in the gas-air mixture.

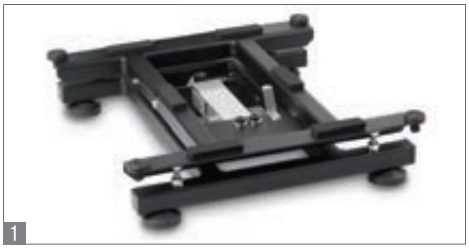
KERN IEX
B: Ethylene (T2), municipal Gas supply (T1)

KERN OEX
C: the most hazardous class (e.g. Hydrogen (T1), Acetylene (T2)

Quick-Finder ATEX scales

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	ATEX	M	CAL EXT	PCS	TOL	IP	INOX
						For an explanation on the pictos, see the front flap						
2 g	6 kg	**IEX 6K-3M**	**1950,-**	173	20	● IIB	○	●	●	●	●	●
2 g	6 kg	**OEX 6K-3M**	**4330,-**	174	20	● IIC	○	●	●	●	●	●
2 g	6 kg	**OEX 6K-3HM**	**4330,-**	174	20	● IIC	○	●	●	●	●	●
5 g	15 kg	**IEX 10K-3M**	**1950,-**	173	20	● IIB	○	●	●	●	●	●
5 g	15 kg	**OEX 10K-3M**	**4330,-**	174	20	● IIC	○	●	●	●	●	●
5 g	15 kg	**OEX 10K-3HM**	**4330,-**	174	20	● IIC	○	●	●	●	●	●
10 g	30 kg	**IEX 30K-2M**	**2150,-**	173	20	● IIB	○	●	●	●	●	●
10 g	30 kg	**OEX 30K-2M**	**4730,-**	174	20	● IIC	○	●	●	●	●	●
10 g	30 kg	**OEX 30K-2HM**	**4730,-**	174	20	● IIC	○	●	●	●	●	●
20 g	60 kg	**IEX 60K-2M**	**2150,-**	173	20	● IIB	○	●	●	●	●	●
20 g	60 kg	**OEX 60K-2M**	**5690,-**	174	20	● IIC	○	●	●	●	●	●
20 g	60 kg	**OEX 60K-2HM**	**5690,-**	174	20	● IIC	○	●	●	●	●	●
50 g	150 kg	**IEX 100K-1M**	**2850,-**	173	20	● IIB	○	●	●	●	●	●
50 g	150 kg	**OEX 100K-1M**	**5690,-**	174	20	● IIC	○	●	●	●	●	●
50 g	150 kg	**OEX 100K-1HM**	**5690,-**	174	20	● IIC	○	●	●	●	●	●

● = Standard ○ = Option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Platform scale with ATEX approval in explosion class II B, with EC type approval [M]

Features

- **Class of protection II 2 G II B T4**, see page 172
- **Stainless steel weighing plate**, painted steel base 1
- 2 **Weighing platform** with dust and spray protection IP65
- **Load cell** aluminium, **silicone-coated**
- 3 Stainless steel **display device**, protection against dust and water splashes IP67

Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxDxH
  A 500x400x105 mm
  B 500x400x105 mm
- Dimensions of display device WxDxH 170x172x76 mm (incl. benchtop stand: WxDxH 226x250x120 mm)
- Cable length of display device, shielded and fail safe, 6-core, length approx. 2,5 m
- Permissible ambient temperature -10 °C / 40 °C

4 **Power supply** using power supply outside the explosion-proof area using a 20 m long cable with 5 screw coupling to fix the display device. Power supply included with delivery. Please indicate the type required at purchase, e.g.:
European power supply: IEX 6K-3MEU
UK power supply: IEX 6K-3MUK

STANDARD: CAL EXT · PCS · TOL · IP 65 (2) · IP 67 (3) · ATEX · INOX (3) · DMS · 21 DAYS · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: 230 V (4) · M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options Verification KERN	 €	DAkkS Calibr. Certificate KERN	 €
IEX 6K-3M	6	2	2	40	9,5	A	**1950,-**	965-228	55,-	963-128	88,-
IEX 10K-3M	15	5	5	100	9,5	A	**1950,-**	965-228	55,-	963-128	88,-
IEX 30K-2M	30	10	10	200	18,5	B	**2150,-**	965-228	55,-	963-128	88,-
IEX 60K-2M	60	20	20	400	18,5	B	**2150,-**	965-229	93,-	963-129	105,-
IEX 100K-1M	150	50	50	1000	18,5	B	**2850,-**	965-229	93,-	963-129	105,-

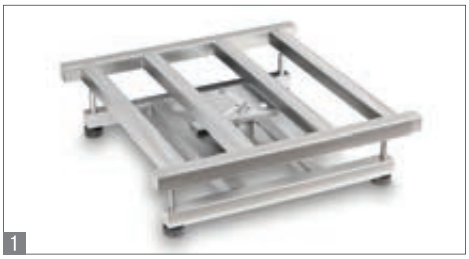
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

ATEX scale KERN OEX

PREMIUM ★★★

KERN OEX–HM

KERN OEX-M



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2 **Power supply** using power supply outside the explosion-proof area using a 20 m long cable with screw coupling to fix the display device. Power supply included with delivery. Please indicate the type required at purchase, e.g.:
European power supply: IEX 6K-3MEU
UK power supply: IEX 6K-3MUK

Platform scale with ATEX approval in explosion class II C, with EC type approval [M]

Features

- **Class of protection II 2 G II C T4**, see page 172
- **Stainless steel weighing plate**, stainless steel substructure 1
- **Weighing platform** with dust and spray protection IP65
- **Load cell** aluminium, **silicone-coated**
- Stainless steel **display device**, protection against dust and water splashes IP67
- Column to screw on to the platform, standard for models OEX-HM

Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxDxH
  - A 250x300x155 mm
  - B 250x300x155 mm, see enlarged picture
  - C 250x300x155 mm
- Dimensions of display device WxDxH 170x172x76 mm (only OEX-M: incl. benchtop stand: WxDxH 226x250x120 mm)
- only OEX-HM: Height incl. fitted column, approx. 790 mm
- Cable length of display device, shielded and fail safe, 6-core, length approx. 2,5 m
- Permissible ambient temperature -10 °C / 40 °C

STANDARD: CAL EXT · PCS · TOL · IP 67 · ATEX · INOX · DMS · 21 DAYS · 3 YEARS WARRANTY

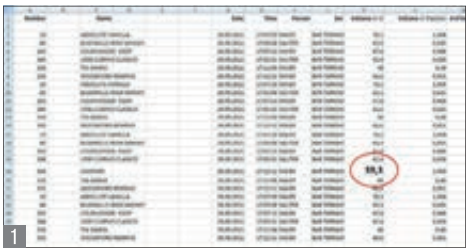
OPTION: DAkkS +3 DAYS

FACTORY: 230 V · M +3 DAYS 2

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options: Verification KERN	 €	Options: DAkkS Calibr. Certificate KERN	 €
OEX 6K-3M	6	2	2	40	9	A	**4330,-**	965-228	55,-	963-128	88,-
OEX 10K-3M	15	5	5	100	9	A	**4330,-**	965-228	55,-	963-128	88,-
OEX 30K-2M	30	10	10	200	11	B	**4730,-**	965-228	55,-	963-128	88,-
OEX 60K-2M	60	20	20	400	17	C	**5690,-**	965-229	93,-	963-129	105,-
OEX 100K-1M	150	50	50	1000	17	C	**5690,-**	965-229	93,-	963-129	105,-
with elevated display											
OEX 6K-3HM	6	2	2	40	9,5	A	**4330,-**	965-228	55,-	963-128	88,-
OEX 10K-3HM	15	5	5	100	9,5	A	**4330,-**	965-228	55,-	963-128	88,-
OEX 30K-2HM	30	10	10	200	11,5	B	**4730,-**	965-228	55,-	963-128	88,-
OEX 60K-2HM	60	20	20	400	18	C	**5690,-**	965-229	93,-	963-129	105,-
OEX 100K-1HM	150	50	50	1000	18	C	**5690,-**	965-229	93,-	963-129	105,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Special equipment: Bottle stocktaking scale KERN SMT



Stocktaking scale with touchscreen for efficiently measuring beverage residuals in bottles and for transferring information to the PC

Features

- **Your advantage:** Less time consuming, compared with the measuring method used before
  - Up to now: Generally, the content of a bottle is established by a visual check, e.g. estimated, documented manually and then manually entered into the PC.
  - New with KERN SMT: Now you can easily select drinks and spirits by item name, item number, autolist or using a barcode scanner, then you can weigh the bottle, transfer the results to the PC - and stocktaking is done!
- **400 item memories** for master data such as item name, item description, PRE-TARE, e.g. weight of the empty bottle, max. bottle content in g, specific weight of liquid etc. The associated stock list can easily be generated at the PC
- 1 **Easy entering of items at the PC:** An excel list with spirit bottles produced at a PC can be transferred to the balance using the software included as standard. Whether in the bar or in the warehouse, the spirits can be weighed in their bottles. In doing so, the stored bottle weight will be subtracted automatically. After the stocktaking, the results will be transferred back to the PC where they can then be processed further as an Excel table
- Determination of beverage inventory according to an internal stock list
- 2 **Selecting the spirit:** During stocktaking, the beverage to be registered can be selected using item name, item number, autolist or using a barcode scanner

Modes
① Weighing
② Determination stock level

Functions
- Capacity display with ①, ②
- PRE-TARE from the memory unit with ①, ②
- Date/time with ①, ②
- GLP printout with ①, ②
- Data transfer of stock items from PC → Stocktaking scale from Excel list with ②
- Transfer of the stocktake information from stocktaking scale → PC as an Excel list with ②
- Selection of stock location and user with ②

Technical data

- Backlit LCD graphic display with digit height 13 mm, screen diagonal 4,3" (approx. 109 mm)
- Weighing plate dimensions, stainless steel, WxD 160x200 mm
- Overall dimensions WxDxH 180x310x85 mm
- **Rechargeable battery pack internal,** standard, operating time up to 12 h without backlight, charging time approx. 10 h
- Net weight approx. 2,7 kg
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN 572-A02S05, **€ 35,-**
- **Volume kit** for determining the specific weight of beverages, scope of delivery: precision balance KERN EMB 600-2, beaker, pipette, KERN SMT-A05, **€ 850,-**
- **Barcode scanner,** table-top version, dimensions WxDxH 230x150x135 mm, KERN SMT-A02, **€ 685,-**
- **Barcode scanner,** hand-held version, dimensions WxDxH 235x210x115 mm, KERN SMT-A03, **€ 445,-**
- **Radio barcode scanner,** hand-held version, dimensions WxDxH 225x220x110 mm, KERN SMT-A04, **€ 495,-**

STANDARD

OPTION

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	**Price** excl. of VAT ex works **€**	Option **DAkkS Calibr. Certificate** DKD KERN	 €
SMT 10K-3	10	1	0,5	± 0,5	**950,-**	963-128	88,-

! Laptop and decorative items not within the scope of delivery

! **ONLY WHILE STOCKS LAST !**

WLAN interface

Printers

Stands

Weighing table

Tare pans

USB keyboard

Protective dust cover

Relay output

Transport case

Wall mount

Large displays

Barcode scanner

Foot switch

Interface cable

Second display

Digital I/O interface

Printers

Important note for printer orders: Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

STANDARD

RS 232 | 230 V

KERN 911-013

Matrix needle printer

For printing weighing results on normal paper, which is ideal for long-term archiving.

- Dimensions housing: WxDxH 100x180x106 mm
- Interface cable not included with delivery

Technical data

- Needle print
- Speed: 1,8 line/sec
- Max. 40 characters per line
- Paper stripes: 57 mm wide
- Operation via mains adapter 230V/50Hz (standard EU), as standard

Price printer without interface cable, KERN 911-013, **€ 330,-**

Accessories

- Paper rolls (10 pcs.), KERN 911-013-010, **€ 35,-**
- Universal mains adapter, standard EU/GB, USA, KERN ABS-A01, **€ 72,-**

STANDARD

RS 232 | B MULTI

KERN YKN-01

Matrix needle printer

For printing weighing results on normal paper, which is ideal for long-term archiving.

- Dimensions housing: WxDxH 158x106x40 mm
- Interface cable not included with delivery

Technical data

- Needle print
- Speed: 1 line/sec
- Max. 16 characters per line
- Paper stripes: 44 mm wide
- Operation via mains adapter 230V/50Hz, as standard

Price printer without interface cable, KERN YKN-01, **€ 225,-**

Accessories

- Paper rolls (5 pcs.), KERN YKN-A01, **€ 35,-**

STANDARD

RS 232 | GLP INTERN | B MULTI

KERN YKB-01N

Thermal printer

For printing weighing results, recipes, quantities etc. or for GLP record keeping of balance adjustment with date and time print. Language versions: DE, GB, FR.

- Dimensions housing: WxDxH 165x140x50 mm
- Interface cable not included with delivery

Technical data

- Thermal print
- Speed: 0,75 lines/sec
- Max. 40 characters per line
- Paper stripes: 112 mm wide
- Operation via mains adapter 230V/50Hz, as standard

Price printer without interface cable, KERN YKB-01N, **€ 325,-**

Accessories

- Paper rolls (10 pcs.), KERN YKB-A10, **€ 55,-**

Individual header data:
For printers **KERN YKN-01, YKB-01N** the free software **KERN SHM-01** (see www.kern-sohn.com) can be used to print 4 header lines on the printout (see marking on balance).
Compatible models: KERN 440, DE, FCB, FKB-A, PCB, PCD.

STANDARD

RS 232 | GLP INTERN | B MULTI

KERN YKS-01

Thermal statistics printer

For printing weighing results, recipes etc. or for GLP record keeping of weighing data with date and time print (not in combination with KERN counting scales or KERN MLS, MLB moisture analysers).
Numerator; with statistical functions such as count and total of all measurements, minimum and maximum values of the main unit, range (Max-Min), average value, standard deviation, available units: mg, g, kg, pcs. Language versions: DE, GB, FR.

Technical data

- Thermal print
- Speed: 0,75 lines/sec
- Max. 40 characters per line
- Paper stripes: 112 mm wide
- Operation via mains adapter 230V/50Hz (standard)
- Dimensions: WxDxH 165x140x50 mm
- Interface cable not included with delivery

Price printer without interface cable, KERN YKS-01, **€ 390,-**

Accessories

Paper rolls (10 pcs.), KERN YKB-A10, **€ 55,-**

STANDARD

RS 232 | B MULTI

NEW

KERN YKE-01

Thermal label printer

Affordable universal label printer to print out weighing results on thermal labels, compatible with all KERN 2016 balances. ASCII-capable.

Technical data

- Thermal print
- Speed: 22 mm/s
- Max. 82 characters per line
- Paper stripes: 112 mm wide
- Operation via mains adapter 230V/50Hz, as standard
- Dimensions housing: WxDxH 150x155x65 mm
- Interface cable not included with delivery

Price printer without interface cable, KERN YKE-01, **€ 590,-**

Accessories

- Paper roll (1 pcs.), Dimensions labels: WxD 51x30 mm, 290 labels: KERN YKE-A01, **€ 60,-**
  73x61 mm, 140 labels: KERN YKE-A02, **€ 60,-**
  105x48 mm, 65 labels: KERN YKE-A03, **€ 60,-**

STANDARD

BT

KERN YKC-01

Bluetooth thermal printer

For printing weighing results, recipes, etc. or for GLP record keeping of weighing data. Suitable for wireless connection to compatible, Bluetooth-enabled balances (Kern: DLT-N or all models with RS-232 data interface in combination with RS-232/Bluetooth adapter KERN YKI-02), dynamometers, etc.

Technical data

- Thermal print
- Speed: 60 mm/sec
- Max. 42 characters per line
- Paper stripes: 57 mm wide
- Operation via mains adapter 230V/50Hz, as standard
- Dimensions housing: WxDxH 85x113x57 mm
- Interface cable not included with delivery

Price printer without interface cable, KERN YKC-01, **€ 690,-**

Accessories

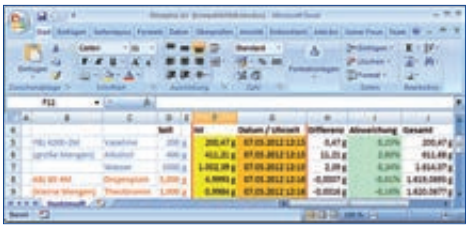
Paper rolls (10 pcs.), KERN YKC-A01, **€ 35,-**

Interface cable for RS-232

For direct connection to a printer or PC, cable length approx. 1.5 m. The interface parameters can be set using the balance keypad.

Note:
The interface cable is **free of charge** if you purchase balance, printer or Ethernet-/ WLAN-/Bluetooth adapter together.

Printer, ... → / Balance ↓	PC, YKI-01/-02/-03 Product code	911-013, YKE-01, YKB-01N, YKN-01 Product code	YKS-01 Product code	Cable Price excl. of VAT ex works €
440, 572, 573, ALJ-AM, ALS-A, ALT-B, CDS, CKE, DE-D, DS, EMB-V, FCB, FKB, FKB-A, FKT, FKTF, IKT, KB, PCB, PCD, PKS, PKT, PLJ-A, PLJ-F, PLS-A, PLS-F, PLE, PLT	572-926			46,-
DBS, DLB, DLT, DAB	572-926		–	
BFA, BFB, EWJ, GAB-N, GAB-P, IFB, KFB-TM, NFB, PFB, UFB	CFS-A01			
BFS, CCS, CFS, CPB KFS-TM, IFS (from year of production 2015)	CFS-A01		–	
EG-N, EW-N	474-926		–	
PEJ, PES (printer connection unidirectional)	–	474-926		
PEJ, PES (printer/PC connection bidirectional)	MLB-A05			
ADB, AEJ-CM, AEJ-NM, AES-C, AES-N, AET, CCP, ILJ-C, ILS-C, ILT, PET, PLJ-C, PLJ-G, PNJ, PNS	MLB-A05			
KFS-T, MLS-D	MLB-A05		–	
HFT	KFF-A01			
ABT-N, PBJ, PBS	770-926			
ABJ-NM, ABS-N	ACS-A01			75,-
CCT	KET-A09			120,-



KERN SCD-4.0

Balance Connection Software

For the direct transmission of weighing data to Windows applications (operating systems Windows XP, Vista, 7, 8, 10).
New: many additional applications, which will help to make the daily work with your balance easier.

- Transfer via RS-232, Bluetooth, LAN or WLAN (TCP/UDP/IP) to applications or files on the PC or in networks, e.g. to MS Excel, Access or Word
- Background transfer at the touch of a key or on a time-controlled basis
- Any output formatting of the transferred data is possible
- Any sequence, if applicable, calculations are possible, etc.)
- Automatic file-naming
- Recording of date and time for every value transferred
- Several output options (e.g. On-Screen display, Excel and file), is also possible simultaneously
- Parallel recording of data from several balances in a table simultaneously
- Large display of the latest recorded value on the display, for maximum transparency
- The interface protocols for KERN balances are already predefined
- Interface cable included. Please specify balance model when ordering (see interface cable table)

Benefits:

- Typing errors during e.g. manual transfer are avoided
- Automatic recording, e.g. for long-term tests
- GLP-compliant lab software

KERN SCD-4.0, **€ 150,-**

KERN PET-A16

Alibi memory software

Alibi memory software for viewing and saving data from the alibi memory onto a PC connected to the system, suitable for series

KERN AEJ-C, ILJ-C, PLJ-C,

KERN PET-A16, **€ 300,-**

KERN PLJ-A06

WLAN interface

WLAN interface for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops, smartphones or networks, must be ordered at purchase,

suitable for series KERN AEJ-C, AES-C, ILJ-C, ILS-C, PLJ-C,

KERN PLJ-A06, **€ 135,-**

STANDARD

RS 232 | BT

KERN YKI-02

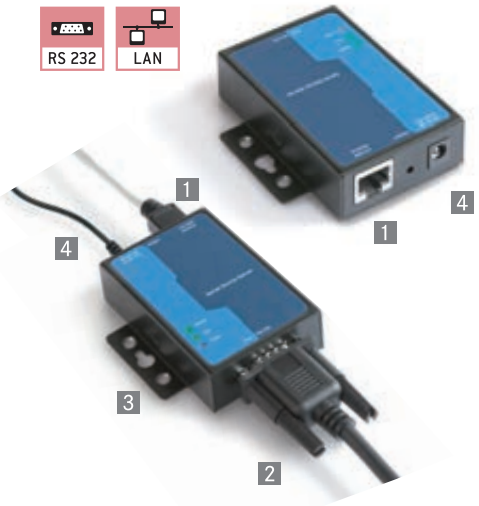
RS-232 / Bluetooth adapter

Adapter for the wireless connection of balances, force measuring devices etc. with an RS-232 interface to Bluetooth devices, such as Bluetooth printers (e.g. KERN YKC-01), tablets, laptops, Smartphones etc. In this way, where there is a physical separation or a large distance between the devices, the weighing data from one or several balances can be easily sent without cable and printed on a Bluetooth printer or transferred to a Bluetooth device (you would need the relevant software on the Bluetooth device, not included with the delivery). The compact adapter with its attractive design can usually be connected directly to the balance 1, e.g. an additional interface cable would not be necessary. Bluetooth adapter will be powered by the balance (if compatible) or with the mains adapter which is supplied as standard 2.
Range up to 100 m outside, depending on obstacles, such as, walls, the sensitivity and type of antenna of the receiver. Intersections of sending and receiving lines using the DCE/DTE switch 3. **Compatible with KERN BalanceConnection software.**
Scope of delivery: RS-232/Bluetooth adapter, mains adapter (EU/UK/USA/AUS/CH) 2, USB-A to Mini-USB-B cable 4, gender changer 5, driver CD.

Price interface cable incl.,
KERN YKI-02**, € 260,-**

STANDARD

RS 232 | LAN



KERN YKI-01

RS-232 / Ethernet adapter

Adapter to connect balances, force measuring devices etc. with an RS-232 interface 2 to an IP-based Ethernet network 1. The adapter allows direct integration of measuring devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time from within the whole network, without having to use additional cables. The adapter supports a wide range of configurational options using the enclosed administration software or by the web interface. The driver delivered with the goods allows you to access the measuring device with existing, non-network-compatible applications using a virtual COM port. **Compatible with KERN BalanceConnection software.** DIN track mount 3 or free-standing.
Scope of delivery: RS-232 Ethernet adapter with 1x Port RS-232 1, mains adapter 4, CD (driver, software, operating instructions), adhesive feet.

Price interface cable incl.,
(please provide balance model in order),

KERN YKI-01**, € 390,-**

▲
Note: To connect to your network, you will need information from your network administrator. We recommend discussing connecting your device into your network with the administrator before you place your order.
▼

STANDARD

RS 232 | WLAN | LAN

KERN YKI-03

RS-232 / WLAN adapter

High-quality adapter for the wireless connection of balances, force measuring devices etc. with RS-232 interface to WLAN-enabled devices, such as tablets, laptops, Smartphones etc. In this way, where there is a physical separation or a large distance between the devices, the weighing data from one or several balances can be easily transferred without cable to a WLAN device or a network (relevant software on the WLAN device needed, not included in delivery). The adapter allows direct integration of measurement devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time from within the whole network, without having to use additional cables. The adapter supports a wide range of configurational options using the enclosed administration software or by the web interface. The driver delivered with the goods allows you to access the measurement device with existing, non-network-compatible applications using a virtual COM port. Compatible with **KERN Balance Connection Software**. The adapter also has an Ethernet interface for a wired connection to an IP-based Ethernet network 1. Thanks to the screw terminals 2, the power connection can be implemented individually using individual wires or using the robust, screw-in power connector 3. Large input voltage range from 12 V – 8 V. Suitable for wall mounting and DIN track mount 4 or free-standing.
Scope of delivery: RS-232/WLAN adapter, mains adapter, network cable (1 m), driver CD.

Price interface cable incl.,
KERN YKI-03**, € 780,-**

KERN YKD-A02

Large display

with superior display size, digit height 3” (76 mm). Luminescent, red LED display for easy reading of weight, even from a distance or under poor lighting conditions. 6 segments, mains connection as standard (230 V, EU/GB), connection using RS-232 data interface, dimensions WxDxH 541x55x180 mm.

Suitable for series IFB, BFB, NFB, UFA, UFB,

KERN YKD-A02, **€ 215,-**

KERN CFS-A03

Signal lamp

Signal lamp for visual support of weighing with tolerance range. Three-colour LED, red, green, yellow. Power supply via balance using RS-232. Total dimensions WxDxH 100x180x300 mm

Suitable for series BFB, BFN, CPB-N, GAB-N, GAB-P, IFB, KFB-TM, NBB, NFB, NFN, SFB, UFA, UFB, UFC, UFN,

KERN CFS-A03, **€ 250,-**

KERN CFS-A04

2nd RS-232 data interface

separate Y cable, e.g. for simultaneous connection of a printer, signal lamp etc. Suitable for series BFB, CPB-N, CFS, GAB-N, GAB-P, IFB, KFB-TM, NFB, UFA, UFB, SFB, BAN, UFN, NFN

KERN CFS-A04, **€ 35,-**

KERN AFH 12

RS-232/USB adapter

to connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.
Scope of delivery:
Converter cable, CD with driver,

KERN AFH 12, **€ 85,-**

KERN AFH 14

2 x RS-232/USB adapter

to connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.
Scope of delivery:
Converter cable, CD with driver,

KERN AFH 14, **€ 65,-**

KERN YKA-02

Power supply adapter set

from standard EU to GB/US/AUS/CH etc. Four pieces. Ideal for devices with Class II protection (not earthed). Ideal for Euro moulded plug,

KERN YKA-02, **€ 30,-**

NEW

KERN YKP-01

Stand (tripodal)

stable and robust, to elevate display device, stainless steel, height-adjustable, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series SFB (from weighing plate size WxD 500x400 mm), BFA, BBB, BFN, BBN, KEN-TM, UFN, NFN,

KERN YKP-01, **€ 360,-**

NEW

KERN YKP-02

Stand (tripodal)

stable and robust, to elevate display device, stainless steel, height-adjustable, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series SFE, IFS, IFB, BFB, BXS, BFS, BFA, BBB, BBN, UFA, UFB, UFC, NFB, NBB, KFE-TM, KXG-TM, KXS-TM, KEN-TM,

KERN YKP-02, **€ 210,-**

KERN KXS-A03

Foot switch

Ideal, when 2 free hands are required for application. TARE or PRINT function can be selected. For the PRINT function you will need the RS-232 interface cable KERN KXS-A04.

Must be ordered at purchase, suitable for series BAN, BXS, IXS, SXS, KXS-TM, KXG-TM.

KERN KXS-A03, **€ 70,-**

KERN RFS-A02

Tare pan

Made of stainless steel, which makes cleaning easy and hygienic. Ideal for weighing loose screws, small parts, fruit, vegetables, cheese, etc.

- WxDxH 370x240x20 mm
- Net weight approx. 524 g

KERN RFS-A02, **€ 55,-**

KERN CH-A01N

Tare pan with pan beam

Made of stainless steel. Ideal for weighing loose small parts, fruit, vegetables etc. Max. load 30 kg. Removable tare pan which makes cleaning easy and hygienic. Suitable for models KERN CH 15K20, HCB 20K10, HCN 20K50IP, HDB-N.

- Dimensions: Tare pan Ø/H 273x40 mm
- Pan beam: WxDxH 320x273x300 mm
- Total dimensions: WxDxH 320x273x340 mm
- Total net weight approx. 1000 g

KERN CH-A01N, **€ 67,-**

KERN RFB-A02

Sturdy transport case

for the safe transport and storage of series WTB-N, RFB, lockable.
Inner dimensions WxDxH 330x290x117 mm, total dimensions WxDxH 510x360x220 mm,

(scale not included with delivery!)

KERN RFB-A02, **€ 95,-**

KERN MPS-A07

Sturdy transport case

for the safe transport and storage of series EOE, EOB scales with weighing plate size ≤ 315x305mm without stand, inner dimensions WxDxH 425x315x65 mm, net weight approx. 2,2 kg,

(scale not included with delivery!)

KERN MPS-A07, **€ 115,-**

KERN ABS-A08

Protective dust cover

For protection from dust and light. Suitable for all KERN analytical balances and precision balances with glass draught shield, except

KERN ADB, AET 100-5AM, AET 200-5DAM

KERN ABS-A08, **€ 30,-**

KERN YDB-03

Universal density set

Universal density set for precise and convenient density determination of liquids and solids ≤/≥ 1. Suitable for all KERN analytical balances.
Scope of delivery**:** Beaker, thermometer, sample holder, adapter, equalising weights, volume plummet (stainless steel, 20 g), universal submersible basket for solid bodies which float and sink. The wire of the submersible basket has a diameter of 0.5 mm and therefore complies with the requirements of DIN EN ISO 1183-1 (Test methods for the determination of density of non-foamed plastics),

KERN YDB-03**, € 520,-**

KERN 962-335V

Density determination of the volume plummet

The density of the enclosed steel volume plummet can be determined by using the universal density set to measure solids. We would be pleased to determine the density of the volume plummet for you quickly and at a reasonable price in our DAkkS calibration laboratory.

You will receive a calibration certificate with all data relating to the density and volume,

KERN 962-335V**, € 143,-**

KERN YBI-01

Ioniser to neutralise electrostatic charge

Weighing items which are non-conductive, such as plastic, china, glass, etc often carry electrostatic charge. The electromagnetic field which then occurs between the items and the balance can cause the weighing result to be distorted by up to a gramme.

Therefore, when weighing in milligrammes or even smaller increments, we recommend neutralising the electrostatic charge with the KERN AC-Korona discharge ioniser.

With the mount, 1 conveniently next to the balance or you can manually direct it from all sides onto a particular weighing item 2.

- Neutralisation ± 20V
- Discharge of ozone 0,04 ppm/h
- Dimensions WxDxH 97x53x31 mm, WxDxH 190x60x110 mm incl. mount
- Net weight approx. 0,11 kg approx. 0,55 kg incl. mount
- Mains connection110-230V/50Hz, AC power supply, 12V DC output

KERN YBI-01**, € 1350,-**

STANDARD

2 DAYS

KERN YPS-03

Weighing table

Accurate measuring results require stable working conditions! The KERN YPS-03 weighing table has been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result.

The YPS-03 weighing table consists of:
- Polished granite plate (34 kg) as integrated working surface, positioned on absorbing rubber components
- Work table with steel profile frame and height-adjustable feet
- Total dimensions WxDxH 770x650x815 mm
- Dimensions granite plate WxD 270x410 mm
- Net weight approx. 55 kg (scale not included with delivery!)

! Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs,

KERN YPS-03**, € 900,-**

KERN PET-A01/KERN KET-A04

Software for database management

for easy maintenance of item data at the PC, such as, e.g., creating item detail links, capturing or deleting item data, creating item text etc. Data of the following categories can be edited: customers, stocks, universal variables, labels, packaging, users, products. Data transfer to the balance using the interface cable (included as standard in the delivery with the balance),

For series KERN AET, PET:
KERN PET-A01, **€ 300,-**
For series KERN ILT:
KERN KET-A04, **€ 300,-**

STANDARD

RS 232

PET-A05

PET-A09

KERN PET-A05/KERN PET-A09

Barcode scanner

ergonomically optimised hand-held version, for connection to an RS-232 interface. Particularly robust and durable. Scratchproof scan window made of hardened glass. Large working area: data collection is possible up to a distance of 43 cm, dimensions WxDxH 152x84x63 mm,

Scope of delivery: barcode scanner, interface cable, mount,

RS-232 version: KERN PET-A05, **€ 350,-**
USB version: KERN PET-A09, **€ 350,-**

STANDARD

RS 232 USB

KERN PET-A13

Direct thermal label printer

very quiet and very quick, print speed of 150 mm/sec, maximum print width: 104 mm, maximum print length: 812 mm, internal power supply, interfaces: USB, RS-232. Especially suitable for the logistics industry, the pharmaceutical industry and in the retail sector. Dimensions WxDxH 231x289x186 mm. Scope of delivery: Printer, USB interface cable, labeling software.

Suitable for series KERN KERN AET, BBB, BBN, CCP, CCT, ILT, KEN-TM, KET-TAM, PET,

KERN PET-A13, **€ 980,-**

Accessories

- Paper roll (1 pcs.),1450 direct thermal labels, Dimensions labels WxD 100x50 mm, outer diameter label roll 120 mm,
  KERN PET-A12, **€ 65,-**

STANDARD

RS 232 USB

KERN PET-A14

Thermal transfer and direct thermal label printer

very quiet and very quick print speed of 101.6 mm/sec, maximum print width: 104 mm, maximum print length: 812 mm, internal power supply, interfaces: USB, RS-232. Especially suitable for the food, chemical and pharmaceutical industries. Software for easy editing of (adhesive) labels included with delivery. The sample labels can be sent to the balance as well as the printer. The sample labels can be sent to the balance as well as the printer. Dimensions WxDxH 231x289x270 mm. Scope of delivery: Printer, USB interface cable, labeling software.

Suitable for series KERN AET, BBB, BBN, CCP, CCT, ILT, KEN-TM, KET-TAM, PET,
KERN PET-A14, **€ 1000,-**

Accessories

- Paper roll (1 pcs.), 1500 direct thermal labels, dimensions labels WxD 100x50 mm, outer diameter label roll 120 mm,
  KERN PET-A10, **€ 80,-**
- Paper roll (1 pcs.), 1450 direct thermal labels, dimensions labels WxD 100x50 mm, outer diameter label roll 120 mm,
  KERN PET-A12, **€ 65,-**

NEW

KERN PET-A17

Cable with special length 3 m

between the display and the weighing unit, for verified models this cannot be ordered afterwards, suitable for series KERN AET, PET.

KERN PET-A17, **€ 250,-**

KERN ILT-A03

Cable with special length 15 m

between display device and platform, for verified models this cannot be ordered afterwards, suitable for series KERN ILT.

KERN ILT-A03, **€ 250,-**

STANDARD

RS 232

KERN PET-A03/KERN KET-A03

Second display

Ideal for training and demonstration purposes in laboratories or industry. Large backlit LCD display with digit height 25 mm.
KERN KET-A03: 6 segments, KERN PET-A03: 8 segments. 2 additional data interfaces RS-232. Interface cable to the balance, length approx. 1,5 m, as well as mains adapter standard.

Dimensions WxDxH 150x58x100 mm.

For series KERN AET, PET:
KERN PET-A03, **€ 210,-**
For series KERN ILT:
KERN KET-A03, **€ 210,-**

STANDARD

RS 232 RS 485 IP 66

KERN KET-A06

Large display

with superior display size, digit height 4,4" (117.7 mm). Luminescent LCD display for easy reading of weight, even from a distance or under poor lighting conditions. Ready for wall mounting. 6 segments, mains connection as standard (230 V, EU / GB). Connection to the balance using the RS-232 or RS-485 interface. Stainless steel housing IP66 protection.

Dimensions WxDxH 541x55x180 mm.
Suitable for series KERN BBB, BBN, ILT-GM, KET-TAM.

KERN KET-A06, **€ 1450,-**

KERN KET-A10

Signal lamp

Signal lamp for visual support of weighing with tolerance range. Three-colour LED, red, green, yellow. Power supply via balance using RS-232. Total dimensions WxDxH 100x180x300 mm. Scope of delivery: Signal lamp CFS-A03, adapter cable KET-A11.

Suitable for series KERN ILT-BAM, ILT-GAM, KET-TAM.

KERN KET-A10, **€ 270,-**

STANDARD

USB

KERN PET-A06

USB keyboard

For easy capture of item data at the balance, for connection to a USB interface. 105 keys, separate numeric keypad, black housing, Dimensions WxDxH 440x128x24 mm.

Suitable for series KERN AET, PET, BBB, BBN, ILT, KET-TAM, KEN-TM.

KERN PET-A06, **€ 45,-**

16

KERN KET-A01

Analogue/Digital converter

to connect up to two platforms to the display device, suitable for series KERN BBB-N, BBN, ILT-BAM, ILT-GAM, KET-TAM,

KERN KET-A01, **€ 350,-**

KERN KEN-A06

Analogue module

for control and warning tasks etc. depending on a specific, defined weight, e.g. when dispensing. Output voltage 0-10V, suitable for series KERN BBB, KEN-TM,

KERN KEN-A06, **€ 350,-**

KERN KEN-A07

Relay output

with 4 outputs for weighing in 2 tolerance ranges, cannot be ordered afterwards, suitable for series KERN BBB, KEN-TM,

KERN KEN-A07, **€ 180,-**

KERN KEN-A08

Digital I/O interface (8 in/8 out)

e.g. to control machines, plant, relays, signal lamps, valves etc., suitable for series KERN BBB, KEN-TM,

KERN KEN-A08, **€ 600,-**

KERN KEN-A09

Profibus module

for integrating a KERN balance into a Profibus network, suitable for series KERN BBB, KEN-TM,

KERN KEN-A09, **€ 250,-**

KERN KET-A02

Wall mount

to fit the display device (see Fig.), the display device can be fitted at two angles, dimensions WxDxH 135x148x110 mm, suitable for series KERN ILT-BM, ILT-GM, KET-TAM,

KERN KET-A02, **€ 190,-**
(Display device is not included with the delivery)

KET-A05/KET-A08

Transponder card reader

RFID technology, dimensions WxDxH 133x30x98 mm, suitable for series KERN AET, BBB, BBN, CCP, CCT, ILT-BAM, ILT-GAM, ILT-NM, KET-TAM, KEN-TM, PET.
Scope of delivery: transponder card reader, interface cable for connecting to the digital I/O interface. Transponder cards are not included with the delivery.

KERN KET-A05, **€ 450,-**

Transponder cards for transponder card reader KET-A05, pack of 10 pcs.,

KERN KET-A08, **€ 65,-**

WE WEIGH ALMOST EVERYTHING … AND THAT'S NOT ALL!

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For years an established name in doctors' surgeries, nursing homes, rehabilitation clinics and hospitals.

Wherever reliable quality is important, look no further than the complete KERN range of medical scales, from baby scales, to personal scales, chair scales, obesity scales through to hand grip dynamometers.

SAUTER measuring technology

The SAUTER measuring technology range covers a large selection of force-measurement devices, measurement devices for coating thickness, material thickness, hardness measurement equipment (Shore, Leeb), calliper gauges, photometers, sound level meters and test benches.

Request your personal copy now, free of charge!

17 Test weights

Weights yesterday and today

Weights have always been used to carry out weighing procedures. This original purpose has almost disappeared. Today, weights are used almost exclusively for adjusting and testing = calibration of electronic balances. We therefore call them “Test weights” as this is their purpose of use.

Adjustment or calibration?

➔ ***Adjusting*** a balance means that you are intervening in the weighing system, to make sure that the display is set to show the correct nominal value. With ➔ ***calibration*** on the other hand, there is no intervention, you are testing whether the display is correct and documenting any deviation.

Testing, the right way!

The internationally valid OIML norm R111-2004 classifies test weights hierarchically in accuracy classes, where E1 is the most accurate and M3 is the least accurate weight class. With KERN you get the whole test weight range in all OIML accuracy classes E1, E2, F1, F2, M1, M2, M3.

As the appropriate test weight is only classed as checking equipment according to ➔ ***ISO 9000ff*** if it has the relevant proof of accuracy, all KERN test weights come with an appropriate ➔ ***DAkkS-calibration certificate***. For further details, see the calibration service section on page 208.

KERN offers you the appropriate test weight package for your balance, consisting of the test weight, box and DAkkS-calibration certificate, as proof of its accuracy. The best pre-requisite for proper balance calibration.

➔ ***See the glossary on page 214 – 216***

Test weights: classes of accuracy E, F, M and their general relation to the types of balances:

E1 Test weights for customers who require a high degree of accuracy for the most demanding applications. For high-resolution balances with d > 1,000,000 Use recommended with DAkkS calibration certificate only.

E2 Most accurate test weights for high resolution analytical balances of verification class I ≥ 100,000 e

F1 Test weights for analytical balances/precision balances for verification class I/II ≤ 100,000 e

F2 Test weights for precision balances of verification class II, ≤ 30,000 e

M1 Test weights for industrial and commercial scales of verification class III ≤ 10,000 e

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Product specialist Test weights

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diener@kern-sohn.com

Selection of the appropriate test weight for your balance

Correctly selected test weights with DAkkS calibration certificate are the pre-requisite for ensuring that your balances are not only correctly adjusted, but also correctly calibrated. Scheduled testing of your balances with such test weights helps to guarantee your quality requirements and to maintain your quality targets.

Here's how you find the right test weight for your balance:
A balance can never be more accurate than the test weight used to adjust it, it all depends on its tolerance.
Accuracy of the test weight: Should correspond to the readout [d] of the balance, or rather be better.

Nominal weight value: This is shown in adjust mode "CAL" in the balance display. Given a choice, the heaviest weight is the most suitable for accurate measurement.
Once accuracy and nominal weight value are specified, the suitable test weight is selected according to the tolerances "Tol" of the individual accuracy classes E2 – M3, see column "Tol ± mg" at the respective weight and table at page 190.

Example:
Balance with weighing range [Max] 2000 g = 2 kg
and readout [d] = 0,01 g = 10 mg

- The accuracy of the required test weight is determined by readout [d] with approx. ± 10 mg.
- Displayed weight size on "CAL" mode: 1000 g or 2000 g. The required test weight has a 2 kg weight size.
- Suitable test weights with ± 10 mg tolerance and 2 kg weight size, can be found in accuracy class F1. KERN-No 327-72, see page 195.

Exception, analytical balances (readout [d] ≤ 0,1 mg):
E1 test weights are recommended. Depending on the safety requirements, E2 test weights with a DAkkS calibration certificate will also be sufficient.

From brass to stainless steel - the right test weight for every situation

Test weight → / Features ↓	Cylindrical shape with lifting knob, polished stainless steel	Compact shape with carrying grip, polished stainless steel	Cylindrical shape with lifting knob, polished stainless steel or nickelplated and polished brass	Compact shape with carrying grip, finely turned stainless steel	Cylindrical shape with lifting knob, finely turned stainless steel	Cylindrical shape with lifting knob, finely turned brass
Conforms to OIML R111	yes	yes	yes	no	yes	yes
Available classes	E1, E2	E2, F1	F1	adjusted to F1 error limit class	F2, M1	M1, M2, M3
Upper surface	polished	polished	polished	finely turned	finely turned	finely turned
Material	Stainless steel	Stainless steel	Stainless steel or nickel-plated brass	Stainless steel	Stainless steel	Brass
Adjusting cavity	no	no	yes	yes, from 20 g	yes, from 20 g	yes, from 20 g
Verification possible	yes	yes	yes	nein	yes	yes, except M2
Checking equipment for verification purposes	approved	approved	approved	not approved	approved	approved (M1, M2)
Ideal as checking equipment in QM systems (e.g. ISO 9000 ff)	yes	yes	yes	yes	yes	yes
Benefits	• High-quality test weight for analytical and precision balances • Highly-refined surface • Ideal shape of the top for good grip	• Affordable test weight for analytical and precision balances • Highly-refined surface	• Ideal, high-quality test weight for precision balances • Ideal shape of the top for good grip	• Affordable test weight for in-house checking of precision balances	• Ideal test weight for commercial and industrial scales • Ideal shape of the top for good grip	• Affordable test weight for commercial and industrial scales • Ideal shape of the top for good grip

OIML norm R111-2004 for weights

The key points from the OIML norm R111-2004
OIML (Organisation Internationale de Metrologie Legale) has established the exact metrological requirements for weights in verified applications in approx. 100 states all over the world. The OIML recommendation R111 (2004 Edition) for weights relates to sizes 1 mg – 5000 kg. Statements are made on the accuracy, materials, geometric shape, marking and storage of the weights.

Error limits for weights of classes E1 to M3
The error limit classes are in fixed hierarchical levels in the proportion of 1:3, where E1 is the most accurate and M3 is the least accurate weight class. When testing weights with other weights, the correct test class is the next highest class.

Error limit classes (= tolerances)
The values given in the table below (tolerances ± ... mg) are the respective permitted fabrication tolerances. They are to be equal to the ➔ ***measuring uncertainty*** of the weight, if no ➔ ***DAkkS calibration certificate*** is available.

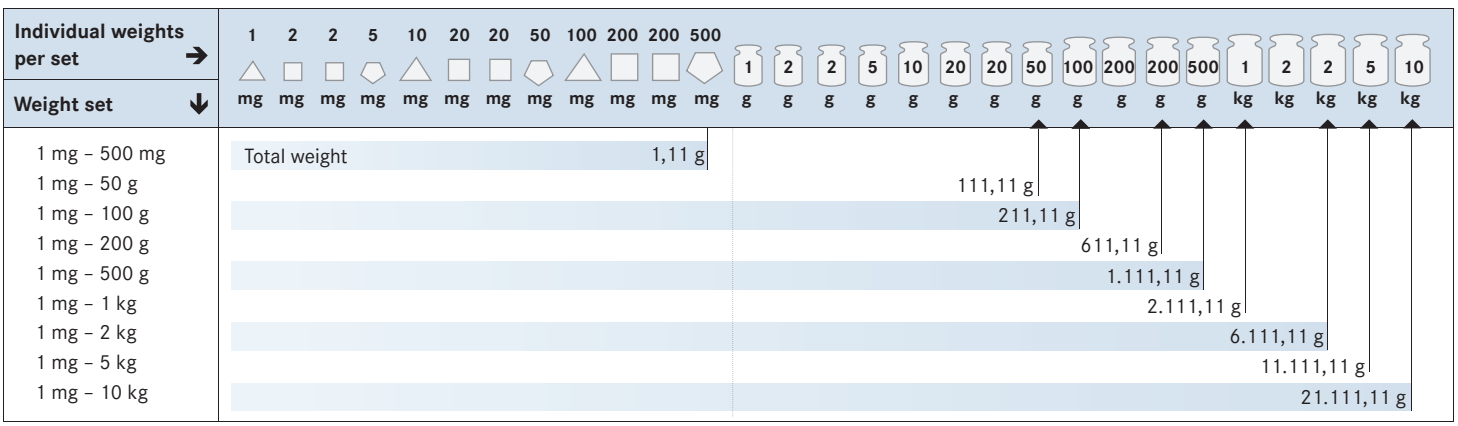
Conventional mass
The problem is the air buoyancy, which makes the weight appear lighter. In order to avoid this "distortion" in daily use, all weights are adjusted to the unit specifications as given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m³, air density is 1.2 kg/m³ and measuring temperature is 20 °C.

KERN cylindrical test weights
Comply with OIML R111-2004 in all respects, without exception.

➔ ***See the glossary, page 214 – 216***

Nominal value ↓	OIML R111-2004 Maximum permissible errors for weights = permissible tolerances "Tol ± mg"						
	E1	E2	F1	F2	M1	M2	M3
1 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
2 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
5 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
10 mg	± 0,003 mg	± 0,008 mg	± 0,025 mg	± 0,08 mg	± 0,25 mg	-	-
20 mg	± 0,003 mg	± 0,010 mg	± 0,03 mg	± 0,10 mg	± 0,3 mg	-	-
50 mg	± 0,004 mg	± 0,012 mg	± 0,04 mg	± 0,12 mg	± 0,4 mg	-	-
100 mg	± 0,005 mg	± 0,016 mg	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	-
200 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	± 0,6 mg	± 2,0 mg	-
500 mg	± 0,008 mg	± 0,025 mg	± 0,08 mg	± 0,25 mg	± 0,8 mg	± 2,5 mg	-
1 g	± 0,010 mg	± 0,03 mg	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg
2 g	± 0,012 mg	± 0,04 mg	± 0,12 mg	± 0,4 mg	± 1,2 mg	± 4,0 mg	± 12 mg
5 g	± 0,016 mg	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg
10 g	± 0,020 mg	± 0,06 mg	± 0,20 mg	± 0,6 mg	± 2,0 mg	± 6,0 mg	± 20 mg
20 g	± 0,025 mg	± 0,08 mg	± 0,25 mg	± 0,8 mg	± 2,5 mg	± 8,0 mg	± 25 mg
50 g	± 0,03 mg	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg
100 g	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg	± 50 mg
200 g	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg	± 100 mg
500 g	± 0,25 mg	± 0,8 mg	± 2,5 mg	± 8,0 mg	± 25 mg	± 80 mg	± 250 mg
1 kg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg
2 kg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg
5 kg	± 2,5 mg	± 8,0 mg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg
10 kg	± 5,0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg
20 kg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g
50 kg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g
100 kg	-	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g
200 kg	-	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g	± 30 g	± 100 g
500 kg	-	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g	± 80 g	± 250 g
1 000 kg	-	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g	± 160 g	± 500 g
2 000 kg	-	-	± 10 g	± 30 g	± 100 g	± 300 g	± 1 000 g
5 000 kg	-	-	± 25 g	± 80 g	± 250 g	± 800 g	± 2 500 g

Composition table, valid for all KERN weight sets from 1 mg



Class E1 **Milligram weights, wire shape, stainless steel**

Test weight material: stainless steel
Box material: Wood

Milligram weight				+	Box		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
308-31	1 mg	0,003	**52,-**		338-090-200	**14,-**		962-251	**52,-**			**118,-**
308-32	2 mg	0,003	**52,-**		338-090-200	**14,-**		962-252	**52,-**			**118,-**
308-33	5 mg	0,003	**52,-**		338-090-200	**14,-**		962-253	**52,-**			**118,-**
308-34	10 mg	0,003	**52,-**		338-090-200	**14,-**		962-254	**52,-**			**118,-**
308-35	20 mg	0,003	**52,-**		338-090-200	**14,-**		962-255	**52,-**			**118,-**
308-36	50 mg	0,004	**52,-**		338-090-200	**14,-**		962-256	**52,-**			**118,-**
308-37	100 mg	0,005	**52,-**		338-090-200	**14,-**		962-257	**52,-**			**118,-**
308-38	200 mg	0,006	**52,-**		338-090-200	**14,-**		962-258	**52,-**			**118,-**
308-39	500 mg	0,008	**52,-**		338-090-200	**14,-**		962-259	**52,-**			**118,-**

Class E1 **Individual weights, cylindrical shape, polished stainless steel**

Test weight material: Polished stainless steel
Box material: Lined wood

For weights ≤ 500 g

For weights ≥ 1 kg

Individual weight				+	Box		+	DAkkS certificate Initial calibration		=	Package price	DAkkS certificate Recalibration	
KERN		Tol ± mg	€		KERN	€		KERN	€		€	KERN	€
307-01	1 g	0,010	**83,-**		317-010-100	**28,-**		963-231	**193,-**		**304,-**	962-231 R	**52,-**
307-02	2 g	0,012	**89,-**		317-020-100	**28,-**		963-232	**193,-**		**310,-**	962-232 R	**52,-**
307-03	5 g	0,016	**96,-**		317-030-100	**28,-**		963-233	**193,-**		**317,-**	962-233 R	**52,-**
307-04	10 g	0,020	**104,-**		317-040-100	**28,-**		963-234	**193,-**		**325,-**	962-234 R	**52,-**
307-05	20 g	0,025	**113,-**		317-050-100	**28,-**		963-235	**193,-**		**334,-**	962-235 R	**52,-**
307-06	50 g	0,03	**135,-**		317-060-100	**28,-**		963-236	**193,-**		**356,-**	962-236 R	**52,-**
307-07	100 g	0,05	**162,-**		317-070-100	**28,-**		963-237	**193,-**		**383,-**	962-237 R	**52,-**
307-08	200 g	0,10	**194,-**		317-080-100	**28,-**		963-238	**193,-**		**415,-**	962-238 R	**52,-**
307-09	500 g	0,25	**280,-**		317-090-100	**31,-**		963-239	**193,-**		**504,-**	962-239 R	**52,-**
307-11	1 kg	0,5	**425,-**		317-110-100	**35,-**		963-241	**193,-**		**653,-**	962-241 R	**52,-**
307-12	2 kg	1,0	**630,-**		317-120-100	**44,-**		963-242	**465,-**		**1139,-**	962-242 R	**64,-**
307-13	5 kg	2,5	**1060,-**		317-130-100	**66,-**		963-243	**465,-**		**1591,-**	962-243 R	**64,-**
307-14	10 kg	5,0	**1530,-**		317-140-100	**89,-**		963-244	**465,-**		**2084,-**	962-244 R	**64,-**
307-15	20 kg	10,0	**2160,-**		317-150-100	**340,-**		963-245	**1160,-**		**3660,-**	962-245 R	**590,-**
307-16	50 kg	25,0	**4140,-**		317-160-100	**415,-**		963-246	**1360,-**		**5915,-**	962-246 R	**660,-**

For E1 weights > 1g at the point of initial calibration, a volume determination will be carried out in accordance with OIML R111. When recalibrating, this is not required.

Class E1 **Weight sets, cylindrical shape, polished stainless steel**

Test weight material: Polished stainless steel
Case material: Lined wood. Milligram weights 1 mg – 500 mg in plastic box.

Weight set			+	DAkkS certificate Initial calibration		=	Package price		DAkkS certificate Recalibration	
KERN		€		KERN	€		KERN	€	KERN	€
308-42	1 mg – 500 mg	**655,-**		962-250	**350,-**			**1005,-**	962-250 R	**350,-**
303-02	1 mg – 50 g	**1540,-**		963-201	**1070,-**			**2610,-**	962-201 R	**560,-**
303-03	1 mg –100 g	**1700,-**		963-202	**1170,-**			**2870,-**	962-202 R	**580,-**
303-04	1 mg – 200 g	**2090,-**		963-203	**1350,-**			**3440,-**	962-203 R	**630,-**
303-05	1 mg – 500 g	**2420,-**		963-204	**1440,-**			**3860,-**	962-204 R	**660,-**
303-06	1 mg – 1 kg	**2840,-**		963-205	**1530,-**			**4370,-**	962-205 R	**700,-**
303-07	1 mg – 2 kg	**4150,-**		963-206	**2000,-**			**6150,-**	962-206 R	**750,-**
303-08	1 mg – 5 kg	**5300,-**		963-207	**2450,-**			**7750,-**	962-207 R	**770,-**
303-09	1 mg – 10 kg	**6890,-**		963-208	**2900,-**			**9790,-**	962-208 R	**800,-**
304-02	1 g – 50 g	**910,-**		963-215	**770,-**			**1680,-**	962-215 R	**245,-**
304-03	1 g – 100 g	**1070,-**		963-216	**860,-**			**1930,-**	962-216 R	**270,-**
304-04	1 g – 200 g	**1460,-**		963-217	**1040,-**			**2500,-**	962-217 R	**320,-**
304-05	1 g – 500 g	**1790,-**		963-218	**1130,-**			**2920,-**	962-218 R	**350,-**
304-06	1 g – 1 kg	**2210,-**		963-219	**1230,-**			**3440,-**	962-219 R	**375,-**
304-07	1 g – 2 kg	**3520,-**		963-220	**1780,-**			**5300,-**	962-220 R	**425,-**
304-08	1 g – 5 kg	**4670,-**		963-221	**2230,-**			**6900,-**	962-221 R	**450,-**
304-09	1 g – 10 kg	**6260,-**		963-222	**2690,-**			**8950,-**	962-222 R	**485,-**

Class E2 **Milligram weights, flat polygonal sheet, aluminium/German silver**

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Container material: Lined plastic

Milligram weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
318-01	1 mg	0,006	24,-		347-009-400	2,-		962-351	26,-			52,-
318-02	2 mg	0,006	24,-		347-009-400	2,-		962-352	26,-			52,-
318-03	5 mg	0,006	24,-		347-009-400	2,-		962-353	26,-			52,-
318-04	10 mg	0,008	24,-		347-009-400	2,-		962-354	26,-			52,-
318-05	20 mg	0,010	24,-		347-009-400	2,-		962-355	26,-			52,-
318-06	50 mg	0,012	24,-		347-009-400	2,-		962-356	26,-			52,-
318-07	100 mg	0,016	24,-		347-009-400	2,-		962-357	26,-			52,-
318-08	200 mg	0,020	24,-		347-009-400	2,-		962-358	26,-			52,-
318-09	500 mg	0,025	24,-		347-009-400	2,-		962-359	26,-			52,-

Class E2 **Individual weights, compact shape, polished stainless steel**

Test weight material: Polished stainless steel
Container material: Lined plastic

Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
316-01	1 g	0,03	33,-		317-020-400	6,-		962-331	26,-			65,-
316-02	2 g	0,04	35,-		317-020-400	6,-		962-332	26,-			67,-
316-03	5 g	0,05	37,-		317-030-400	6,-		962-333	26,-			69,-
316-04	10 g	0,06	39,-		317-040-400	6,-		962-334	26,-			71,-
316-05	20 g	0,08	45,-		317-050-400	6,-		962-335	26,-			77,-
316-06	50 g	0,10	48,-		317-060-400	6,-		962-336	26,-			80,-
316-07	100 g	0,16	52,-		317-070-400	6,-		962-337	33,-			91,-
316-08	200 g	0,3	66,-		317-080-400	6,-		962-338	33,-			105,-
316-09	500 g	0,8	111,-		317-090-400	9,-		962-339	33,-			153,-
316-11	1 kg	1,6	161,-		317-110-400	9,-		962-341	33,-			203,-
316-12	2 kg	3,0	260,-		317-120-400	9,-		962-342	41,-			310,-
316-13	5 kg	8,0	375,-		317-130-400	15,-		962-343	41,-			431,-
316-14	10 kg	16,0	530,-		317-140-400	20,-		962-344	41,-			591,-

Class E2 **Individual weights, cylindrical shape, polished stainless steel**

Test weight material: Polished stainless steel
Container material: Lined plastic or wooden box (317-150-100 and 317-160-100)

For weights ≤ 500 g

For weights ≥ 1 kg

Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
317-01	1 g	0,03	47,-		317-020-400	6,-		962-331	26,-			79,-
317-02	2 g	0,04	50,-		317-020-400	6,-		962-332	26,-			82,-
317-03	5 g	0,05	54,-		317-030-400	6,-		962-333	26,-			86,-
317-04	10 g	0,06	56,-		317-040-400	6,-		962-334	26,-			88,-
317-05	20 g	0,08	65,-		317-050-400	6,-		962-335	26,-			97,-
317-06	50 g	0,10	76,-		317-060-400	6,-		962-336	26,-			108,-
317-07	100 g	0,16	82,-		317-070-400	6,-		962-337	33,-			121,-
317-08	200 g	0,3	104,-		317-080-400	6,-		962-338	33,-			143,-
317-09	500 g	0,8	175,-		317-090-400	9,-		962-339	33,-			217,-
317-11	1 kg	1,6	260,-		317-110-400	9,-		962-341	33,-			302,-
317-12	2 kg	3,0	415,-		317-120-400	9,-		962-342	41,-			465,-
317-13	5 kg	8,0	590,-		317-130-400	15,-		962-343	41,-			646,-
317-14	10 kg	16,0	850,-		317-140-400	20,-		962-344	41,-			911,-
317-15	20 kg	30,0	1340,-		317-150-100	340,-		962-345	52,-			1732,-
317-16	50 kg	80,0	2780,-		317-160-100	415,-		962-346	64,-			3259,-

For individual weights, wooden boxes are also available as an alternative to the plastic containers.
For more details on this, please see page 206.

Class E2 **Weight sets, compact shape, polished stainless steel**

Test weight material: Polished stainless steel
Case material: Lined plastic

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
312-024	1 g – 50 g	**370,-**		962-315	**127,-**			**497,-**
312-034	1 g – 100 g	**410,-**		962-316	**150,-**			**560,-**
312-044	1 g – 200 g	**500,-**		962-317	**196,-**			**696,-**
312-054	1 g – 500 g	**610,-**		962-318	**220,-**			**830,-**
312-064	1 g – 1 kg	**810,-**		962-319	**245,-**			**1055,-**
312-074	1 g – 2 kg	**1310,-**		962-320	**305,-**			**1615,-**
312-084	1 g – 5 kg	**1650,-**		962-321	**340,-**			**1990,-**

Class E2 **Weight sets, cylindrical shape, polished stainless steel**

Test weight material: Individual weights, polished stainless steel, milligram weights aluminium/German silver
Case material: Lined plastic. Milligram weights 1 mg – 500 mg in plastic box

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
318-22	1 mg – 500 mg	**320,-**		962-350	**190,-**			**510,-**
313-024	1 mg – 50 g	**820,-**		962-301	**315,-**			**1135,-**
313-034	1 mg – 100 g	**910,-**		962-302	**340,-**			**1250,-**
313-044	1 mg – 200 g	**1110,-**		962-303	**385,-**			**1495,-**
313-054	1 mg – 500 g	**1270,-**		962-304	**410,-**			**1680,-**
313-064	1 mg – 1 kg	**1630,-**		962-305	**435,-**			**2065,-**
313-074	1 mg – 2 kg	**2460,-**		962-306	**495,-**			**2955,-**
313-084	1 mg – 5 kg	**3050,-**		962-307	**530,-**			**3580,-**
314-024	1 g – 50 g	**540,-**		962-315	**127,-**			**667,-**
314-034	1 g – 100 g	**620,-**		962-316	**150,-**			**770,-**
314-044	1 g – 200 g	**830,-**		962-317	**196,-**			**1026,-**
314-054	1 g – 500 g	**1010,-**		962-318	**220,-**			**1230,-**
314-064	1 g – 1 kg	**1340,-**		962-319	**245,-**			**1585,-**
314-074	1 g – 2 kg	**2180,-**		962-320	**305,-**			**2485,-**
314-084	1 g – 5 kg	**2760,-**		962-321	**340,-**			**3100,-**

Class E2 **Weight sets, cylindrical shape, polished stainless steel**

Test weight material: Individual weights, polished stainless steel, milligram weights aluminium /German silver
Case material: Lined wood. Milligram weights 1 mg – 500 mg in plastic box.

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
318-22	1 mg – 500 mg	**320,-**		962-350	**190,-**			**510,-**
313-02	1 mg – 50 g	**880,-**		962-301	**315,-**			**1195,-**
313-03	1 mg – 100 g	**960,-**		962-302	**340,-**			**1300,-**
313-04	1 mg – 200 g	**1170,-**		962-303	**385,-**			**1555,-**
313-05	1 mg – 500 g	**1400,-**		962-304	**410,-**			**1810,-**
313-06	1 mg – 1 kg	**1670,-**		962-305	**435,-**			**2105,-**
313-07	1 mg – 2 kg	**2550,-**		962-306	**495,-**			**3045,-**
313-08	1 mg – 5 kg	**3250,-**		962-307	**530,-**			**3780,-**
313-09	1 mg – 10 kg	**4180,-**		962-308	**560,-**			**4740,-**
314-02	1 g – 50 g	**590,-**		962-315	**127,-**			**717,-**
314-03	1 g – 100 g	**670,-**		962-316	**150,-**			**820,-**
314-04	1 g – 200 g	**880,-**		962-317	**196,-**			**1076,-**
314-05	1 g – 500 g	**1120,-**		962-318	**220,-**			**1340,-**
314-06	1 g – 1 kg	**1380,-**		962-319	**245,-**			**1625,-**
314-07	1 g – 2 kg	**2260,-**		962-320	**305,-**			**2565,-**
314-08	1 g – 5 kg	**2960,-**		962-321	**340,-**			**3300,-**
314-09	1 g – 10 kg	**3890,-**		962-322	**370,-**			**4260,-**

Class F1 **Milligram weights, flat polygonal sheet, aluminium/German silver**

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Container material: Lined plastic

Milligram weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
328-01	1 mg	0,020	**11,-**		347-009-400	**2,-**		962-451	**18,-**			**31,-**
328-02	2 mg	0,020	**11,-**		347-009-400	**2,-**		962-452	**18,-**			**31,-**
328-03	5 mg	0,020	**11,-**		347-009-400	**2,-**		962-453	**18,-**			**31,-**
328-04	10 mg	0,025	**11,-**		347-009-400	**2,-**		962-454	**18,-**			**31,-**
328-05	20 mg	0,03	**11,-**		347-009-400	**2,-**		962-455	**18,-**			**31,-**
328-06	50 mg	0,04	**11,-**		347-009-400	**2,-**		962-456	**18,-**			**31,-**
328-07	100 mg	0,05	**11,-**		347-009-400	**2,-**		962-457	**18,-**			**31,-**
328-08	200 mg	0,06	**11,-**		347-009-400	**2,-**		962-458	**18,-**			**31,-**
328-09	500 mg	0,08	**11,-**		347-009-400	**2,-**		962-459	**18,-**			**31,-**

Individual weights, compact shape, finely turned stainless steel

Test weight material: finely turned stainless steel
Container material: Lined plastic
Build type: Not in accordance with OIML R111, adjusted to error limit class F1

Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
329-01	1 g	0,10	**18,-**		347-030-400	**2,-**		962-431N	**18,-**			**38,-**
329-02	2 g	0,12	**19,-**		347-030-400	**2,-**		962-432N	**18,-**			**39,-**
329-03	5 g	0,16	**20,-**		347-030-400	**2,-**		962-433N	**18,-**			**40,-**
329-04	10 g	0,20	**23,-**		347-050-400	**2,-**		962-434N	**18,-**			**43,-**
329-05	20 g	0,25	**25,-**		347-050-400	**2,-**		962-435N	**18,-**			**45,-**
329-06	50 g	0,3	**27,-**		347-070-400	**2,-**		962-436N	**18,-**			**47,-**
329-07	100 g	0,5	**31,-**		347-070-400	**2,-**		962-437N	**20,-**			**53,-**
329-08	200 g	1,0	**41,-**		347-080-400	**2,-**		962-438N	**20,-**			**63,-**
329-09	500 g	2,5	**58,-**		347-090-400	**3,-**		962-439N	**20,-**			**81,-**
329-11	1 kg	5,0	**83,-**		347-110-400	**3,-**		962-441N	**20,-**			**106,-**
329-12	2 kg	10	**127,-**		347-120-400	**3,-**		962-442N	**25,-**			**155,-**
329-13	5 kg	25	**218,-**		347-130-400	**9,-**		962-443N	**25,-**			**252,-**
329-14	10 kg	50	**412,-**		347-140-400	**9,-**		962-444N	**25,-**			**446,-**

Class F1 **Individual weights, compact shape, polished stainless steel**

Test weight material: Polished stainless steel
Container material: Lined plastic

Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
326-01	1 g	0,10	**22,-**		347-030-400	**2,-**		962-431	**18,-**			**42,-**
326-02	2 g	0,12	**23,-**		347-030-400	**2,-**		962-432	**18,-**			**43,-**
326-03	5 g	0,16	**25,-**		347-030-400	**2,-**		962-433	**18,-**			**45,-**
326-04	10 g	0,20	**28,-**		347-050-400	**2,-**		962-434	**18,-**			**48,-**
326-05	20 g	0,25	**29,-**		347-050-400	**2,-**		962-435	**18,-**			**49,-**
326-06	50 g	0,3	**32,-**		347-070-400	**2,-**		962-436	**18,-**			**52,-**
326-07	100 g	0,5	**36,-**		347-070-400	**2,-**		962-437	**20,-**			**58,-**
326-08	200 g	1,0	**49,-**		347-080-400	**2,-**		962-438	**20,-**			**71,-**
326-09	500 g	2,5	**68,-**		347-090-400	**3,-**		962-439	**20,-**			**91,-**
326-11	1 kg	5,0	**101,-**		347-110-400	**3,-**		962-441	**20,-**			**124,-**
326-12	2 kg	10	**150,-**		347-120-400	**3,-**		962-442	**25,-**			**178,-**
326-13	5 kg	25	**257,-**		347-130-400	**9,-**		962-443	**25,-**			**293,-**
326-14	10 kg	50	**485,-**		347-140-400	**9,-**		962-444	**25,-**			**519,-**

Class F1 **Individual weights, cylindrical shape, nickel-plated and polished brass**

Test weight material: Nickel-plated and polished brass
Container material: Lined plastic or lined wooden box (317-150-100 and 317-160-100)

Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
327-61	1 g	0,10	**23,-**		347-030-400	**2,-**		962-431	**18,-**			**43,-**
327-62	2 g	0,12	**24,-**		347-030-400	**2,-**		962-432	**18,-**			**44,-**
327-63	5 g	0,16	**26,-**		347-030-400	**2,-**		962-433	**18,-**			**46,-**
327-64	10 g	0,20	**29,-**		347-050-400	**2,-**		962-434	**18,-**			**49,-**
327-65	20 g	0,25	**31,-**		347-050-400	**2,-**		962-435	**18,-**			**51,-**
327-66	50 g	0,3	**34,-**		347-070-400	**2,-**		962-436	**18,-**			**54,-**
327-67	100 g	0,5	**38,-**		347-070-400	**2,-**		962-437	**20,-**			**60,-**
327-68	200 g	1,0	**52,-**		347-080-400	**2,-**		962-438	**20,-**			**74,-**
327-69	500 g	2,5	**72,-**		347-090-400	**3,-**		962-439	**20,-**			**95,-**
327-71	1 kg	5,0	**106,-**		347-110-400	**3,-**		962-441	**20,-**			**129,-**
327-72	2 kg	10	**158,-**		347-120-400	**3,-**		962-442	**25,-**			**186,-**
327-73	5 kg	25	**270,-**		347-130-400	**9,-**		962-443	**25,-**			**304,-**
327-74	10 kg	50	**510,-**		347-140-400	**9,-**		962-444	**25,-**			**544,-**
327-75	20 kg	100	**960,-**		317-150-100	**340,-**		962-445	**28,-**			**1328,-**
327-76	50 kg	250	**1800,-**		317-160-100	**415,-**		962-446	**39,-**			**2254,-**

Class F1 **Individual weights, cylindrical shape, polished stainless steel**

Test weight material: Polished stainless steel
Container material: Lined plastic or lined wooden box (317-150-100 and 317-160-100)

Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
327-01	1 g	0,10	**30,-**		347-030-400	**2,-**		962-431	**18,-**			**50,-**
327-02	2 g	0,12	**31,-**		347-030-400	**2,-**		962-432	**18,-**			**51,-**
327-03	5 g	0,16	**33,-**		347-030-400	**2,-**		962-433	**18,-**			**53,-**
327-04	10 g	0,20	**37,-**		347-050-400	**2,-**		962-434	**18,-**			**57,-**
327-05	20 g	0,25	**41,-**		347-050-400	**2,-**		962-435	**18,-**			**61,-**
327-06	50 g	0,3	**45,-**		347-070-400	**2,-**		962-436	**18,-**			**65,-**
327-07	100 g	0,5	**55,-**		347-070-400	**2,-**		962-437	**20,-**			**77,-**
327-08	200 g	1,0	**72,-**		347-080-400	**2,-**		962-438	**20,-**			**94,-**
327-09	500 g	2,5	**118,-**		347-090-400	**3,-**		962-439	**20,-**			**141,-**
327-11	1 kg	5,0	**165,-**		347-110-400	**3,-**		962-441	**20,-**			**188,-**
327-12	2 kg	10	**250,-**		347-120-400	**3,-**		962-442	**25,-**			**278,-**
327-13	5 kg	25	**375,-**		347-130-400	**9,-**		962-443	**25,-**			**409,-**
327-14	10 kg	50	**680,-**		347-140-400	**9,-**		962-444	**25,-**			**714,-**
327-15	20 kg	100	**1050,-**		317-150-100	**340,-**		962-445	**28,-**			**1418,-**
327-16	50 kg	250	**2270,-**		317-160-100	**415,-**		962-446	**39,-**			**2724,-**

Alternative to plastic container:
Wooden boxes for individual weights. For more details on this, please see page 206.

Weight sets, compact shape, finely turned stainless steel

Check weight material: finely turned stainless steel, Case material: Lined plastic

! Build type: Not in accordance with OIML R111, adjusted to error limit class F1

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
321-024	1 g – 50 g	185,-		962-415	67,-		252,-	
321-034	1 g – 100 g	215,-		962-416	77,-		292,-	
321-044	1 g – 200 g	280,-		962-417	98,-		378,-	
321-054	1 g – 500 g	320,-		962-418	109,-		429,-	
321-064	1 g – 1 kg	460,-		962-419	119,-		579,-	
321-074	1 g – 2 kg	640,-		962-420	151,-		791,-	
321-084	1 g – 5 kg	820,-		962-421	166,-		986,-	

Class F1 Weight sets, compact shape, polished stainless steel

Test weight material: Polished stainless steel
Case material: Lined plastic

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
322-024	1 g – 50 g	235,-		962-415	67,-		302,-	
322-034	1 g – 100 g	270,-		962-416	77,-		347,-	
322-044	1 g – 200 g	350,-		962-417	98,-		448,-	
322-054	1 g – 500 g	410,-		962-418	109,-		519,-	
322-064	1 g – 1 kg	580,-		962-419	119,-		699,-	
322-074	1 g – 2 kg	810,-		962-420	151,-		961,-	
322-084	1 g – 5 kg	1030,-		962-421	166,-		1196,-	

Class F1 Weight sets, cylindrical shape, polished and nickel-plated brass or polished stainless steel

Test weight material: Individual weights - nickel-plated and polished brass or polished stainless steel, milligram weights - aluminium 1 mg - 5 mg/German silver 10 mg - 500 mg
Case material: Lined plastic. Milligram weights 1 mg – 500 mg in plastic box.

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
328-22	1 mg – 500 mg	175,-		962-450	100,-		275,-	
Nickel-plated and polished brass								
323-624	1 mg – 50 g	400,-		962-401	167,-		567,-	
323-634	1 mg – 100 g	435,-		962-402	178,-		613,-	
323-644	1 mg – 200 g	530,-		962-403	199,-		729,-	
323-654	1 mg – 500 g	590,-		962-404	210,-		800,-	
323-664	1 mg – 1 kg	750,-		962-405	220,-		970,-	
323-674	1 mg – 2 kg	1030,-		962-406	250,-		1280,-	
323-684	1 mg – 5 kg	1270,-		962-407	265,-		1535,-	
324-624	1 g – 50 g	260,-		962-415	67,-		327,-	
324-634	1 g – 100 g	300,-		962-416	77,-		377,-	
324-644	1 g – 200 g	380,-		962-417	98,-		478,-	
324-654	1 g – 500 g	450,-		962-418	109,-		559,-	
324-664	1 g – 1 kg	630,-		962-419	119,-		749,-	
324-674	1 g – 2 kg	900,-		962-420	151,-		1051,-	
324-684	1 g – 5 kg	1140,-		962-421	166,-		1306,-	
Polished stainless steel								
323-024	1 mg – 50 g	500,-		962-401	167,-		667,-	
323-034	1 mg – 100 g	560,-		962-402	178,-		738,-	
323-044	1 mg – 200 g	700,-		962-403	199,-		899,-	
323-054	1 mg – 500 g	820,-		962-404	210,-		1030,-	
323-064	1 mg – 1 kg	1070,-		962-405	220,-		1290,-	
323-074	1 mg – 2 kg	1570,-		962-406	250,-		1820,-	
323-084	1 mg – 5 kg	1920,-		962-407	265,-		2185,-	
324-024	1 g – 50 g	340,-		962-415	67,-		407,-	
324-034	1 g – 100 g	400,-		962-416	77,-		477,-	
324-044	1 g – 200 g	540,-		962-417	98,-		638,-	
324-054	1 g – 500 g	660,-		962-418	109,-		769,-	
324-064	1 g – 1 kg	890,-		962-419	119,-		1009,-	
324-074	1 g – 2 kg	1400,-		962-420	151,-		1551,-	
324-084	1 g – 5 kg	1750,-		962-421	166,-		1916,-	

Class F1 **Weight sets, cylindrical shape, nickel-plated and polished brass or polished stainless steel**

Test weight material: Individual weights polished or nickel-plated brass or polished stainless steel, milligram weights aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Case material: Lined wood. Milligram weights 1 mg – 500 mg in plastic box.

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
328-22	1 mg – 500 mg	**175,-**		962-450	**100,-**			**275,-**
Polished and nickel-plated brass								
323-62	1 mg – 50 g	**455,-**		962-401	**167,-**			**622,-**
323-63	1 mg – 100 g	**485,-**		962-402	**178,-**			**663,-**
323-64	1 mg – 200 g	**580,-**		962-403	**199,-**			**779,-**
323-65	1 mg – 500 g	**700,-**		962-404	**210,-**			**910,-**
323-66	1 mg – 1 kg	**790,-**		962-405	**220,-**			**1010,-**
323-67	1 mg – 2 kg	**1120,-**		962-406	**250,-**			**1370,-**
323-68	1 mg – 5 kg	**1470,-**		962-407	**265,-**			**1735,-**
323-69	1 mg – 10 kg	**1990,-**		962-408	**285,-**			**2275,-**
324-62	1 g – 50 g	**310,-**		962-415	**67,-**			**377,-**
324-63	1 g – 100 g	**350,-**		962-416	**77,-**			**427,-**
324-64	1 g – 200 g	**435,-**		962-417	**98,-**			**533,-**
324-65	1 g – 500 g	**560,-**		962-418	**109,-**			**669,-**
324-66	1 g – 1 kg	**660,-**		962-419	**119,-**			**779,-**
324-67	1 g – 2 kg	**980,-**		962-420	**151,-**			**1131,-**
324-68	1 g – 5 kg	**1330,-**		962-421	**166,-**			**1496,-**
324-69	1 g – 10 kg	**1850,-**		962-422	**182,-**			**2032,-**
Polished stainless steel								
323-02	1 mg – 50 g	**560,-**		962-401	**167,-**			**727,-**
323-03	1 mg – 100 g	**610,-**		962-402	**178,-**			**788,-**
323-04	1 mg – 200 g	**750,-**		962-403	**199,-**			**949,-**
323-05	1 mg – 500 g	**930,-**		962-404	**210,-**			**1140,-**
323-06	1 mg – 1 kg	**1100,-**		962-405	**220,-**			**1320,-**
323-07	1 mg – 2 kg	**1650,-**		962-406	**250,-**			**1900,-**
323-08	1 mg – 5 kg	**2110,-**		962-407	**265,-**			**2375,-**
323-09	1 mg – 10 kg	**2880,-**		962-408	**285,-**			**3165,-**
324-02	1 g – 50 g	**390,-**		962-415	**67,-**			**457,-**
324-03	1 g – 100 g	**450,-**		962-416	**77,-**			**527,-**
324-04	1 g – 200 g	**600,-**		962-417	**98,-**			**698,-**
324-05	1 g – 500 g	**760,-**		962-418	**109,-**			**869,-**
324-06	1 g – 1 kg	**940,-**		962-419	**119,-**			**1059,-**
324-07	1 g – 2 kg	**1480,-**		962-420	**151,-**			**1631,-**
324-08	1 g – 5 kg	**1950,-**		962-421	**166,-**			**2116,-**
324-09	1 g – 10 kg	**2710,-**		962-422	**182,-**			**2892,-**

You can create your own individual weight set yourself:
It contains only the weights which you need for testing purposes. KERN will customise your own personal box out of plastic, wood or aluminium. For more details on this, please see page 207.

Class F2 **Milligram weights, flat polygonal sheet, aluminium/German silver**

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Container material: Lined plastic

Milligram weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
338-01	1 mg	0,06	**10,-**		347-009-400	**2,-**		962-451	**18,-**			**31,-**
338-02	2 mg	0,06	**10,-**		347-009-400	**2,-**		962-452	**18,-**			**31,-**
338-03	5 mg	0,06	**10,-**		347-009-400	**2,-**		962-453	**18,-**			**31,-**
338-04	10 mg	0,08	**10,-**		347-009-400	**2,-**		962-454	**18,-**			**31,-**
338-05	20 mg	0,10	**10,-**		347-009-400	**2,-**		962-455	**18,-**			**31,-**
338-06	50 mg	0,12	**10,-**		347-009-400	**2,-**		962-456	**18,-**			**31,-**
338-07	100 mg	0,16	**10,-**		347-009-400	**2,-**		962-457	**18,-**			**31,-**
338-08	200 mg	0,20	**10,-**		347-009-400	**2,-**		962-458	**18,-**			**31,-**
338-09	500 mg	0,25	**10,-**		347-009-400	**2,-**		962-459	**18,-**			**31,-**

Class F2 **Individual weights, cylindrical shape, finely turned stainless steel**

Test weight material: finely turned stainless steel
Container material: Lined plastic or wooden box (337-150-200 and 337-160-200)

Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
337-01	1 g	0,3	**19,-**		347-030-400	**2,-**		962-431	**18,-**			**39,-**
337-02	2 g	0,4	**20,-**		347-030-400	**2,-**		962-432	**18,-**			**40,-**
337-03	5 g	0,5	**22,-**		347-030-400	**2,-**		962-433	**18,-**			**42,-**
337-04	10 g	0,6	**24,-**		347-050-400	**2,-**		962-434	**18,-**			**44,-**
337-05	20 g	0,8	**26,-**		347-050-400	**2,-**		962-435	**18,-**			**46,-**
337-06	50 g	1,0	**28,-**		347-070-400	**2,-**		962-436	**18,-**			**48,-**
337-07	100 g	1,6	**32,-**		347-070-400	**2,-**		962-437	**20,-**			**54,-**
337-08	200 g	3,0	**42,-**		347-080-400	**2,-**		962-438	**20,-**			**64,-**
337-09	500 g	8,0	**60,-**		347-090-400	**3,-**		962-439	**20,-**			**83,-**
337-11	1 kg	16	**84,-**		347-110-400	**3,-**		962-441	**20,-**			**107,-**
337-12	2 kg	30	**129,-**		347-120-400	**3,-**		962-442	**25,-**			**157,-**
337-13	5 kg	80	**220,-**		347-130-400	**9,-**		962-443	**25,-**			**254,-**
337-14	10 kg	160	**415,-**		347-140-400	**9,-**		962-444	**25,-**			**449,-**
337-15	20 kg	300	**710,-**		337-150-200	**220,-**		962-445	**28,-**			**958,-**
337-16	50 kg	800	**1290,-**		337-160-200	**345,-**		962-446	**39,-**			**1674,-**

Alternative to plastic container:
Wooden boxes for individual weights. For more details on this, please see page 206.

Class F2 **Test weights, stainless steel, stackable**

Test weight material: finely turned stainless steel
Box material: Wood

Test weight					+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	Dim. Ø x H	€		KERN	€		KERN	€		KERN	€
337-141	10 kg	160	137x132 mm	**550,-**		337-141-200	**190,-**		962-444	**25,-**			**765,-**
337-151	20 kg	300	137x217 mm	**670,-**		337-151-200	**235,-**		962-445	**28,-**			**933,-**
337-161	50 kg	800	198x250 mm	**1790,-**		337-161-200	**345,-**		962-446	**39,-**			**2174,-**

Class F2 **Weight sets, cylindrical shape, finely turned stainless steel**

Test weight material: I Individual weights - finely turned stainless steel, milligram weights - aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Case material: Lined plastic. Milligram weights 1 mg – 500 mg in plastic box.

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
338-22	1 mg – 500 mg	143,-		962-450	100,-			243,-
333-024	1 mg – 50 g	365,-		962-401	167,-			532,-
333-034	1 mg – 100 g	405,-		962-402	178,-			583,-
333-044	1 mg – 200 g	495,-		962-403	199,-			694,-
333-054	1 mg – 500 g	570,-		962-404	210,-			780,-
333-064	1 mg – 1 kg	690,-		962-405	220,-			910,-
333-074	1 mg – 2 kg	970,-		962-406	250,-			1220,-
333-084	1 mg – 5 kg	1250,-		962-407	265,-			1515,-
334-024	1 g – 50 g	225,-		962-415	67,-			292,-
334-034	1 g – 100 g	265,-		962-416	77,-			342,-
334-044	1 g – 200 g	360,-		962-417	98,-			458,-
334-054	1 g – 500 g	425,-		962-418	109,-			534,-
334-064	1 g – 1 kg	560,-		962-419	119,-			679,-
334-074	1 g – 2 kg	850,-		962-420	151,-			1001,-
334-084	1 g – 5 kg	1120,-		962-421	166,-			1286,-

Class F2 **Weight sets, cylindrical shape, finely turned stainless steel**

Test weight material: Individual weights - finely turned stainless steel, milligram weights - aluminium 1 mg - 5 mg/German silver 10 mg - 500 mg
Case material: Wood. Milligram weights 1 mg – 500 mg in plastic box.

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
338-22	1 mg – 500 mg	143,-		962-450	100,-			243,-
333-02	1 mg – 50 g	365,-		962-401	167,-			532,-
333-03	1 mg – 100 g	405,-		962-402	178,-			583,-
333-04	1 mg – 200 g	495,-		962-403	199,-			694,-
333-05	1 mg – 500 g	570,-		962-404	210,-			780,-
333-06	1 mg – 1 kg	690,-		962-405	220,-			910,-
333-07	1 mg – 2 kg	970,-		962-406	250,-			1220,-
333-08	1 mg – 5 kg	1250,-		962-407	265,-			1515,-
333-09	1 mg – 10 kg	1750,-		962-408	285,-			2035,-
334-02	1 g – 50 g	225,-		962-415	67,-			292,-
334-03	1 g – 100 g	265,-		962-416	77,-			342,-
334-04	1 g – 200 g	360,-		962-417	98,-			458,-
334-05	1 g – 500 g	425,-		962-418	109,-			534,-
334-06	1 g – 1 kg	560,-		962-419	119,-			679,-
334-07	1 g – 2 kg	850,-		962-420	151,-			1001,-
334-08	1 g – 5 kg	1120,-		962-421	166,-			1286,-
334-09	1 g – 10 kg	1610,-		962-422	182,-			1792,-

You can create your own individual weight set yourself:
It contains only the weights which you need for testing purposes. KERN will customise your own personal box out of plastic, wood or aluminium. For more details on this, please see page 207.

Class M1 **Milligram weights, flat polygonal sheet, aluminium/German silver**

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Container material: Lined plastic

Milligram weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
348-01	1 mg	0,20	**4,10**		347-009-400	**2,-**		962-651	**15,-**			**21,10**
348-02	2 mg	0,20	**4,10**		347-009-400	**2,-**		962-652	**15,-**			**21,10**
348-03	5 mg	0,20	**4,10**		347-009-400	**2,-**		962-653	**15,-**			**21,10**
348-04	10 mg	0,25	**4,10**		347-009-400	**2,-**		962-654	**15,-**			**21,10**
348-05	20 mg	0,3	**4,10**		347-009-400	**2,-**		962-655	**15,-**			**21,10**
348-06	50 mg	0,4	**4,10**		347-009-400	**2,-**		962-656	**15,-**			**21,10**
348-07	100 mg	0,5	**4,10**		347-009-400	**2,-**		962-657	**15,-**			**21,10**
348-08	200 mg	0,6	**4,10**		347-009-400	**2,-**		962-658	**15,-**			**21,10**
348-09	500 mg	0,8	**4,10**		347-009-400	**2,-**		962-659	**15,-**			**21,10**

Class M1 **Individual weights, cylindrical shape, finely turned brass or finely turned stainless steel**

Test weight material: Individual weights - finely turned brass or finely turned stainless steel
Container material: Lined plastic

Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
Finely turned brass												
347-41	1 g	1,0	**4,10**		347-030-400	**2,-**		962-631	**15,-**			**21,10**
347-42	2 g	1,2	**4,40**		347-030-400	**2,-**		962-632	**15,-**			**21,40**
347-43	5 g	1,6	**4,80**		347-030-400	**2,-**		962-633	**15,-**			**21,80**
347-44	10 g	2,0	**5,30**		347-050-400	**2,-**		962-634	**15,-**			**22,30**
347-45	20 g	2,5	**5,70**		347-050-400	**2,-**		962-635	**15,-**			**22,70**
347-46	50 g	3,0	**6,70**		347-070-400	**2,-**		962-636	**15,-**			**23,70**
347-47	100 g	5,0	**8,60**		347-070-400	**2,-**		962-637	**16,-**			**26,60**
347-48	200 g	10	**13,-**		347-080-400	**2,-**		962-638	**16,-**			**31,-**
347-49	500 g	25	**28,-**		347-090-400	**3,-**		962-639	**16,-**			**47,-**
347-51	1 kg	50	**43,-**		347-110-400	**3,-**		962-641	**16,-**			**62,-**
347-52	2 kg	100	**77,-**		347-120-400	**3,-**		962-642	**17,-**			**97,-**
347-53	5 kg	250	**165,-**		347-130-400	**9,-**		962-643	**17,-**			**191,-**
347-54	10 kg	500	**310,-**		347-140-400	**9,-**		962-644	**17,-**			**336,-**
Finely turned stainless steel												
347-01	1 g	1,0	**4,60**		347-030-400	**2,-**		962-631	**15,-**			**21,60**
347-02	2 g	1,2	**4,90**		347-030-400	**2,-**		962-632	**15,-**			**21,90**
347-03	5 g	1,6	**5,40**		347-030-400	**2,-**		962-633	**15,-**			**22,40**
347-04	10 g	2,0	**5,80**		347-050-400	**2,-**		962-634	**15,-**			**22,80**
347-05	20 g	2,5	**6,50**		347-050-400	**2,-**		962-635	**15,-**			**23,50**
347-06	50 g	3,0	**8,20**		347-070-400	**2,-**		962-636	**15,-**			**25,20**
347-07	100 g	5,0	**11,-**		347-070-400	**2,-**		962-637	**16,-**			**29,-**
347-08	200 g	10	**16,-**		347-080-400	**2,-**		962-638	**16,-**			**34,-**
347-09	500 g	25	**34,-**		347-090-400	**3,-**		962-639	**16,-**			**53,-**
347-11	1 kg	50	**54,-**		347-110-400	**3,-**		962-641	**16,-**			**73,-**
347-12	2 kg	100	**92,-**		347-120-400	**3,-**		962-642	**17,-**			**112,-**
347-13	5 kg	250	**196,-**		347-130-400	**9,-**		962-643	**17,-**			**222,-**
347-14	10 kg	500	**385,-**		347-140-400	**9,-**		962-644	**17,-**			**411,-**

Class M1 **Test weights, stainless steel, stackable**

Test weight material: Stainless steel, finely turned
Box material: Wood

Test weight					+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± g	Dim. Ø x H	€		KERN	€		KERN	€		KERN	€
347-141	10 kg	0,50	137x132 mm	**465,-**		337-141-200	**190,-**		962-644	**17,-**			**672,-**
347-151	20 kg	1,00	137x217 mm	**530,-**		337-151-200	**235,-**		962-645	**22,-**			**787,-**
347-161	50 kg	2,50	198x250 mm	**1510,-**		337-161-200	**345,-**		962-646	**24,-**			**1879,-**

Class M1 **Weight sets, cylindrical shape, finely turned brass or finely turned stainless steel**

Test weight material: Individual weights finely turned brass or finely turned stainless steel, milligram weights aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Case material: Lined plastic. Milligram weights 1 mg – 500 mg in plastic box.

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
348-22	1 mg – 500 mg	69,-		962-650	63,-			132,-
Finely turned brass								
343-424	1 mg – 50 g	149,-		962-601	106,-			255,-
343-434	1 mg – 100 g	162,-		962-602	112,-			274,-
343-444	1 mg – 200 g	191,-		962-603	125,-			316,-
343-454	1 mg – 500 g	220,-		962-604	131,-			351,-
343-464	1 mg – 1 kg	305,-		962-605	137,-			442,-
343-474	1 mg – 2 kg	485,-		962-606	152,-			637,-
343-484	1 mg – 5 kg	710,-		962-607	160,-			870,-
344-424	1 g – 50 g	81,-		962-615	42,-			123,-
344-434	1 g – 100 g	94,-		962-616	49,-			143,-
344-444	1 g – 200 g	124,-		962-617	61,-			185,-
344-454	1 g – 500 g	158,-		962-618	68,-			226,-
344-464	1 g – 1 kg	250,-		962-619	74,-			324,-
344-474	1 g – 2 kg	430,-		962-620	89,-			519,-
344-484	1 g – 5 kg	650,-		962-621	96,-			746,-
Finely turned stainless steel								
343-024	1 mg – 50 g	155,-		962-601	106,-			261,-
343-034	1 mg – 100 g	170,-		962-602	112,-			282,-
343-044	1 mg – 200 g	205,-		962-603	125,-			330,-
343-054	1 mg – 500 g	245,-		962-604	131,-			376,-
343-064	1 mg – 1 kg	335,-		962-605	137,-			472,-
343-074	1 mg – 2 kg	540,-		962-606	152,-			692,-
343-084	1 mg – 5 kg	800,-		962-607	160,-			960,-
344-024	1 g – 50 g	88,-		962-615	42,-			130,-
344-034	1 g – 100 g	102,-		962-616	49,-			151,-
344-044	1 g – 200 g	139,-		962-617	61,-			200,-
344-054	1 g – 500 g	179,-		962-618	68,-			247,-
344-064	1 g – 1 kg	285,-		962-619	74,-			359,-
344-074	1 g – 2 kg	490,-		962-620	89,-			579,-
344-084	1 g – 5 kg	750,-		962-621	96,-			846,-

Class M1 **Weight sets, cylindrical shape, finely turned brass or finely turned stainless steel**

Test weight material: Individual weights finely turned brass or finely turned stainless steel, milligram weights aluminium 1 mg - 5 mg/German silver 10 mg - 500 mg
Case material: Wood. Milligram weights 1 mg – 500 mg in plastic box.

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
348-22	1 mg – 500 mg	69,-		962-650	63,-			132,-
Finely turned brass								
343-42	1 mg – 50 g	149,-		962-601	106,-			255,-
343-43	1 mg – 100 g	162,-		962-602	112,-			274,-
343-44	1 mg – 200 g	191,-		962-603	125,-			316,-
343-45	1 mg – 500 g	220,-		962-604	131,-			351,-
343-46	1 mg – 1 kg	305,-		962-605	137,-			442,-
343-47	1 mg – 2 kg	485,-		962-606	152,-			637,-
343-48	1 mg – 5 kg	710,-		962-607	160,-			870,-
343-49	1 mg – 10 kg	1090,-		962-608	167,-			1257,-
344-42	1 g – 50 g	81,-		962-615	42,-			123,-
344-43	1 g – 100 g	94,-		962-616	49,-			143,-
344-44	1 g – 200 g	124,-		962-617	61,-			185,-
344-45	1 g – 500 g	158,-		962-618	68,-			226,-
344-46	1 g – 1 kg	250,-		962-619	74,-			324,-
344-47	1 g – 2 kg	430,-		962-620	89,-			519,-
344-48	1 g – 5 kg	650,-		962-621	96,-			746,-
344-49	1 g – 10 kg	1020,-		962-622	104,-			1124,-

Continuation: Class M1 **Weight sets, cylindrical shape, finely turned brass or finely turned stainless steel**

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
Finely turned stainless steel								
343-02	1 mg – 50 g	**155,-**		962-601	**106,-**			**261,-**
343-03	1 mg – 100g	**170,-**		962-602	**112,-**			**282,-**
343-04	1 mg – 200 g	**205,-**		962-603	**125,-**			**330,-**
343-05	1 mg – 500 g	**245,-**		962-604	**131,-**			**376,-**
343-06	1 mg – 1 kg	**335,-**		962-605	**137,-**			**472,-**
343-07	1 mg – 2 kg	**540,-**		962-606	**152,-**			**692,-**
343-08	1 mg – 5 kg	**800,-**		962-607	**160,-**			**960,-**
343-09	1 mg – 10 kg	**1250,-**		962-608	**167,-**			**1417,-**
344-02	1 g – 50 g	**88,-**		962-615	**42,-**			**130,-**
344-03	1 g – 100 g	**102,-**		962-616	**49,-**			**151,-**
344-04	1 g – 200 g	**139,-**		962-617	**61,-**			**200,-**
344-05	1 g – 500 g	**179,-**		962-618	**68,-**			**247,-**
344-06	1 g – 1 kg	**285,-**		962-619	**74,-**			**359,-**
344-07	1 g – 2 kg	**490,-**		962-620	**89,-**			**579,-**
344-08	1 g – 5 kg	**750,-**		962-621	**96,-**			**846,-**
344-09	1 g – 10 kg	**1190,-**		962-622	**104,-**			**1294,-**

You can create your own individual weight set yourself:
It contains only the weights which you need for testing purposes. KERN will customise your own personal box out of plastic, wood or aluminium. For more details on this, please see page 207.

Newton weights (N)

All hook and slotted weights as well as beam bars are available with N adjustment according to M1 tolerances, additional price € 8,–.
We need to know the location of use and postal code.
DAkkS calibration certificate for N weights: identical to DAkkS prices for individual weights M1, additional price € 8,–.

Class M1 **Hook weights, finely turned brass**

Test weight material: Finely turned brass
Container material: Lined plastic

Hook weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
347-416	1 g	1,0	**12,-**		347-030-400	**2,-**		962-631	**15,-**			**29,-**
347-426	2 g	1,2	**13,-**		347-030-400	**2,-**		962-632	**15,-**			**30,-**
347-436	5 g	1,6	**14,-**		347-030-400	**2,-**		962-633	**15,-**			**31,-**
347-446	10 g	2,0	**15,-**		347-050-400	**2,-**		962-634	**15,-**			**32,-**
347-456	20 g	2,5	**16,-**		347-050-400	**2,-**		962-635	**15,-**			**33,-**
347-466	50 g	3,0	**20,-**		347-070-400	**2,-**		962-636	**15,-**			**37,-**
347-476	100 g	5	**23,-**		347-090-400	**3,-**		962-637	**16,-**			**42,-**
347-486	200 g	10	**31,-**		347-090-400	**3,-**		962-638	**16,-**			**50,-**
347-496	500 g	25	**43,-**		347-110-400	**3,-**		962-639	**16,-**			**62,-**
347-516	1 kg	50	**63,-**		347-120-400	**3,-**		962-641	**16,-**			**82,-**
347-526	2 kg	100	**104,-**		347-130-400	**9,-**		962-642	**17,-**			**130,-**
347-536	5 kg	250	**180,-**		347-140-400	**9,-**		962-643	**17,-**			**206,-**
347-546	10 kg	500	**350,-**		–	–		962-644	**17,-**			**367,-**

Class M1 **Slotted weights, finely turned brass**

Test weight material: Finely turned brass
Container material: Lined plastic

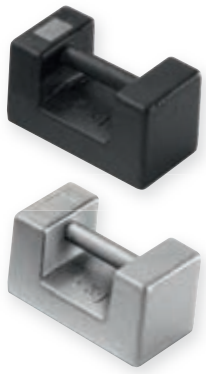
Slotted weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
347-415	1 g	1,0	**14,-**		347-030-400	**2,-**		962-631	**15,-**			**31,-**
347-425	2 g	1,2	**15,-**		347-030-400	**2,-**		962-632	**15,-**			**32,-**
347-435	5 g	1,6	**16,-**		347-030-400	**2,-**		962-633	**15,-**			**33,-**
347-445	10 g	2,0	**19,-**		347-030-400	**2,-**		962-634	**15,-**			**36,-**
347-455	20 g	2,5	**20,-**		347-080-400	**2,-**		962-635	**15,-**			**37,-**
347-465	50 g	3,0	**22,-**		347-080-400	**2,-**		962-636	**15,-**			**39,-**
347-475	100 g	5,0	**25,-**		347-090-400	**3,-**		962-637	**16,-**			**44,-**
347-485	200 g	10	**30,-**		347-090-400	**3,-**		962-638	**16,-**			**49,-**
347-495	500 g	25	**48,-**		347-110-400	**3,-**		962-639	**16,-**			**67,-**
347-515	1 kg	50	**77,-**		347-130-400	**9,-**		962-641	**16,-**			**102,-**
347-525	2 kg	100	**116,-**		347-130-400	**9,-**		962-642	**17,-**			**142,-**
347-535	5 kg	250	**216,-**		347-140-400	**9,-**		962-643	**17,-**			**242,-**
347-545	10 kg	500	**376,-**		347-140-400	**9,-**		962-644	**17,-**			**402,-**

Class M1 **Beam bars, finely turned brass, for fixing slotted weights**

Beam bar material: Brass, aluminium (347-445-100)

Beam bar					+	DAkkS certificate	
KERN	Size	Largest slotted weight possible	Maximum total load	€		KERN	€
347-445-100*	10 g	100 g	200 g	**30,-**		962-634	**15,-**
347-475-100**	100 g	1 kg	2 kg	**50,-**		962-637	**16,-**
347-495-100***	500 g	10 kg	20 kg	**79,-**		962-639	**16,-**
347-515-100***	1000 g	10 kg	40 kg	**118,-**		962-641	**16,-**

Class M1 **Block weights, lacquered cast iron/stainless steel**



Test weight material: Lacquered cast iron/stainless steel (in OIML classes F1 and F2 on request)

Block weight				+	DAkkS certificate		=	Package price	
KERN		Tol ± g	€		KERN	€		KERN	€
Lacquered cast iron									
346-86	5 kg	0,25	**65,-**		962-643	**17,-**			**82,-**
346-87	10 kg	0,50	**85,-**		962-644	**17,-**			**102,-**
346-88	20 kg	1,00	**116,-**		962-645	**22,-**			**138,-**
346-89	50 kg	2,50	**320,-**		962-646	**24,-**			**344,-**
Stainless steel									
346-06	5 kg	0,25	**315,-**		962-643	**17,-**			**332,-**
346-07	10 kg	0,50	**455,-**		962-644	**17,-**			**472,-**
346-08	20 kg	1,00	**580,-**		962-645	**22,-**			**602,-**
346-09	50 kg	2,50	**1490,-**		962-646	**24,-**			**1514,-**

Class M1 **Heavy duty weights, cast iron, stackable**
Designed to be lifted with forklift trucks or cranes

Test weight material: Lacquered cast iron

Heavy duty weight					+	DAkkS certificate	
KERN		Tol ± g	Dimensions WxDxH	€		KERN	€
346-81	100 kg	5	340x225x280 mm	**1390,-**		962-691	**63,-**
346-82	200 kg	10	465x340x291 mm	**1650,-**		962-692	**63,-**
346-83	500 kg	25	750x500x314 mm	**2950,-**		962-693	**63,-**
346-84	1000 kg	50	750x500x500 mm	**4750,-**		962-694	**136,-**
346-85	2000 kg	100	1000x750x500 mm	**8700,-**		962-695	**250,-**

Class M2 **Individual weights, cylindrical shape, finely turned brass**

Test weight material: finely turned brass
Container material: Lined plastic

Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
357-41	1 g	3	**3,60**		347-030-400	**2,-**		962-631	**15,-**			**20,60**
357-42	2 g	4	**3,90**		347-030-400	**2,-**		962-632	**15,-**			**20,90**
357-43	5 g	5	**4,30**		347-030-400	**2,-**		962-633	**15,-**			**21,30**
357-44	10 g	6	**4,70**		347-050-400	**2,-**		962-634	**15,-**			**21,70**
357-45	20 g	8	**5,20**		347-050-400	**2,-**		962-635	**15,-**			**22,20**
357-46	50 g	10	**6,20**		347-070-400	**2,-**		962-636	**15,-**			**23,20**
357-47	100 g	16	**8,-**		347-070-400	**2,-**		962-637	**16,-**			**26,-**
357-48	200 g	30	**12,-**		347-080-400	**2,-**		962-638	**16,-**			**30,-**
357-49	500 g	80	**26,-**		347-090-400	**3,-**		962-639	**16,-**			**45,-**
357-51	1 kg	160	**41,-**		347-110-400	**3,-**		962-641	**16,-**			**61,-**
357-52	2 kg	300	**69,-**		347-120-400	**3,-**		962-642	**17,-**			**89,-**
357-53	5 kg	800	**149,-**		347-130-400	**9,-**		962-643	**17,-**			**175,-**
357-54	10 kg	1600	**295,-**		347-140-400	**9,-**		962-644	**17,-**			**321,-**

Alternative to plastic container:
Wooden boxes for individual weights. For more details on this, please see page 206

Class M2 **Block weights, lacquered cast iron**

Test weight material: Lacquered cast iron

Block weight				+	DAkkS certificate		=	Package price	
KERN		Tol ±g	€		KERN	€		KERN	€
356-86	5 kg	0,8	**62,-**		962-643	**17,-**			**79,-**
356-87	10 kg	1,6	**82,-**		962-644	**17,-**			**99,-**
356-88	20 kg	3,0	**113,-**		962-645	**22,-**			**135,-**
356-89	50 kg	8,0	**310,-**		962-646	**24,-**			**334,-**

Class M2 **Weight sets, cylindrical shape, finely turned brass**

Test weight material: Finely turned brass
Case material: Wood

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
354-42	1 g – 50 g	**78,-**		962-615	**42,-**			**118,-**
354-43	1 g – 100 g	**89,-**		962-616	**49,-**			**138,-**
354-44	1 g – 200 g	**117,-**		962-617	**61,-**			**178,-**
354-45	1 g – 500 g	**149,-**		962-618	**68,-**			**217,-**
354-46	1 g – 1 kg	**245,-**		962-619	**74,-**			**319,-**
354-47	1 g – 2 kg	**405,-**		962-620	**89,-**			**494,-**
354-48	1 g – 5 kg	**610,-**		962-621	**96,-**			**706,-**
354-49	1 g – 10 kg	**970,-**		962-622	**104,-**			**1074,-**

Class M3 **Individual weights, cylindrical shape, finely turned brass**

Test weight material: Finely turned brass
Container material: Lined plastic

Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
367-41	1 g	10	**3,10**		347-030-400	**2,-**		962-631	**15,-**			**20,10**
367-42	2 g	12	**3,40**		347-030-400	**2,-**		962-632	**15,-**			**20,40**
367-43	5 g	16	**3,80**		347-030-400	**2,-**		962-633	**15,-**			**20,80**
367-44	10 g	20	**4,20**		347-050-400	**2,-**		962-634	**15,-**			**21,20**
367-45	20 g	25	**4,60**		347-050-400	**2,-**		962-635	**15,-**			**21,60**
367-46	50 g	30	**5,40**		347-070-400	**2,-**		962-636	**15,-**			**22,40**
367-47	100 g	50	**6,70**		347-070-400	**2,-**		962-637	**16,-**			**24,70**
367-48	200 g	100	**9,80**		347-080-400	**2,-**		962-638	**16,-**			**27,80**
367-49	500 g	250	**22,-**		347-090-400	**3,-**		962-639	**16,-**			**41,-**
367-51	1 kg	500	**35,-**		347-110-400	**3,-**		962-641	**16,-**			**54,-**
367-52	2 kg	1000	**59,-**		347-120-400	**3,-**		962-642	**17,-**			**79,-**

Class M3 **Individual weights, cylindrical shape, lacquered cast iron**

Test weight material: Lacquered cast iron. 20 kg and 50 kg with bail

Individual weight				+	DAkkS certificate		=	Package price	
KERN		Tol ±g	€		KERN	€		KERN	€
366-91	100 g	0,05	**11,-**		962-637	**16,-**			**27,-**
366-92	200 g	0,10	**12,-**		962-638	**16,-**			**28,-**
366-93	500 g	0,25	**18,-**		962-639	**16,-**			**34,-**
366-94	1 kg	0,50	**22,-**		962-641	**16,-**			**38,-**
366-95	2 kg	1,0	**40,-**		962-642	**17,-**			**57,-**
366-96	5 kg	2,5	**66,-**		962-643	**17,-**			**83,-**
366-97	10 kg	5,0	**118,-**		962-644	**17,-**			**135,-**

Class M3 **Block weights, lacquered cast iron**

Test weight material: lacquered cast iron

Block weight				+	DAkkS certificate		=	Package price	
KERN		Tol ±g	€		KERN	€		KERN	€
366-86	5 kg	2,5	**59,-**		962-643	**17,-**			**76,-**
366-87	10 kg	5,0	**79,-**		962-644	**17,-**			**96,-**
366-88	20 kg	10	**110,-**		962-645	**22,-**			**132,-**
366-89	50 kg	25	**300,-**		962-646	**24,-**			**324,-**

Class M3 **Weight sets, cylindrical, brass and lacquered cast iron**

Test weight material: Brass and lacquered cast iron
Case material: Wooden block

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
362-96	1 g – 1 kg	**140,-**		962-619	**74,-**			**214,-**
362-97	1 g – 2 kg	**225,-**		962-620	**89,-**			**314,-**
362-98	1 g – 5 kg	**295,-**		962-621	**96,-**			**391,-**
362-99	1 g – 10 kg	**420,-**		962-622	**104,-**			**524,-**

Tweezers, gloves, dusting brush

Tweezers
to be able to safely grip small test weights

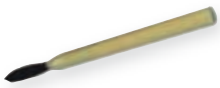
For class	For weights	KERN	Length		Version	€
E1 – F1	1 mg – 200 g	315-243	105 mm	1	Stainless steel with silicone-coated tips	15,-
E1 – F1	500 g – 2 kg	315-245	250 mm	1	Stainless steel with silicone-coated tips	32,-
F2 – M3	1 mg – 200 g	335-240	100 mm	2	Stainless steel	6,80
E1 – M1	1 mg – 200 g	315-242	100 mm	3	Plastic	6,20

Gloves
cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.

KERN	€
317-280	2,50

Gloves
leather/cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.

KERN	€
317-290	6,90



Dusting brush
to clean the weights

KERN	€
318-270	4,20

Boxes for individual weights/test weights

For weights ≤ 500 g

Box material: Lined wood
Suitable for individual weights
KERN-No. 307, 316, 317, 326, 327, 329

Wooden box
for individual weights E1 – F1

For weight	KERN	€
mg	338-090-200	14,-
1 g	317-010-100	28,-
2 g	317-020-100	28,-
5 g	317-030-100	28,-
10 g	317-040-100	28,-
20 g	317-050-100	28,-
50 g	317-060-100	28,-
100 g	317-070-100	28,-
200 g	317-080-100	28,-
500 g	317-090-100	31,-
1 kg	317-110-100	35,-
2 kg	317-120-100	44,-
5 kg	317-130-100	66,-
10 kg	317-140-100	89,-
20 kg	317-150-100	340,-
50 kg	317-160-100	415,-

For weights ≥ 1 kg

For weights ≥ 10 kg

Wooden box
for check weights F2, M1

For weight	KERN	€
10 kg	337-141-200	190,-
20 kg	337-151-200	235,-
50 kg	337-161-200	345,-

For weights ≤ 500 g

Box material: Wood
Suitable for individual weights
KERN-No. 337, 347, 357, 367

Wooden box
for individual weights F2 – M3

For weight	KERN	€
mg	338-090-200	14,-
1 g	337-010-200	14,-
2 g	337-020-200	14,-
5 g	337-030-200	14,-
10 g	337-040-200	14,-
20 g	337-050-200	14,-
50 g	337-060-200	15,-
100 g	337-070-200	15,-
200 g	337-080-200	16,-
500 g	337-090-200	19,-
1 kg	337-110-200	24,-
2 kg	337-120-200	27,-
5 kg	337-130-200	47,-
10 kg	337-140-200	61,-
20 kg	337-150-200	220,-
50 kg	337-160-200	345,-

For weights ≥ 1 kg

For weights ≥ 10 kg

Aluminium box
for individual weights, cylindrical shape, class E1, E2, F1 and F2

Largest possible weight	KERN	€
10 kg	317-140-600	245,-
20 kg	317-150-600	275,-

Cases/boxes for individual weight sets

Individual weight sets:
You can create your own “tailor-made” individual weight sets yourself. KERN will customise your own personal wooden box/plastic carrying case. The largest individual weight which will fit is given in the table.

Sample order:
Your individual weight set:
1 x 50 g, 2 x 100 g, 1 x 500 g, 2 x 1 kg, 1 x 2 kg.

The correct individual box is **KERN-Nr. 313-080-400** (plastic) or **KERN-Nr. 315-070-100** (wood).

Plastic case
for individual weight sets classes E2 – M3, not appropriate for cast iron weights

KERN	Largest possible weight	€
313-050-400	≤ 500 g	82,-
313-080-400	≤ 5 kg	180,-

Wooden box
for individual weight set classes F2 – M3

KERN	Largest possible weight	€
335-040-200	≤ 200 g	58,-
335-050-200	≤ 500 g	61,-
335-060-200	≤ 1 kg	108,-
335-070-200	≤ 2 kg	134,-
335-080-200	≤ 5 kg	210,-
335-090-200	≤ 10 kg	300,-

Wooden box
for individual weight sets classes E1 – F1

KERN	Largest possible weight	€
315-040-100	≤ 200 g	124,-
315-060-100	≤ 1 kg	185,-
315-070-100	≤ 2 kg	245,-
315-080-100	≤ 5 kg	350,-
315-090-100	≤ 10 kg	465,-

Plastic carrying case for standard weight sets

Plastic case for weight sets
with standard denomination classes E2 – M3, not appropriate for cast iron weights

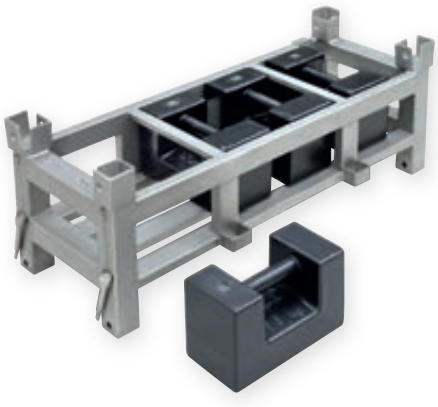
KERN	Largest possible weight	€
313-052-400	≤ 500 g	55,-
313-082-400	≤ 5 kg	154,-

Aluminium case
for safe storage and transportation under harsh industrial conditions.

Aluminium case
for weight sets with standard denomination classes E1, E2

KERN	Largest possible weight	€
313-042-600	≤ 200 g	230,-
313-062-600	≤ 1 kg	310,-
313-082-600	≤ 5 kg	390,-
313-090-600	≤ 10 kg	470,-

Weight carriers for block weights or other test weights



Individual weight carriers for testing high capacity floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights.
This means the weight container and the weights can be placed on the scale in one go, saving time and money.

The weight container can be calibrated to OIML accuracy classes M1 – M3.
On request, KERN will make you a “tailor-made” weight carrier to your specifications.

Example:

9 block weights	each 50 kg, class M1 =	450 kg
1 weight container	each 50 kg, class M1 =	50 kg
Total	=	500 kg

The Deutsche Akkreditierungsstelle GmbH (DAkkS) (German accreditation body)

The Deutsche Akkreditierungsstelle GmbH (DAkkS), successor of the German Calibration Service (DKD), is responsible for measuring "correctly" in accordance with legally binding international standards. It is part of DAkkS = Deutsche Akkreditierungstelle (German accreditation authority) which was founded in Germany. The basis is the European range of standards DIN EN ISO/IEC 17000 for conformity assessment, in particular the accreditation standard 17025, which governs the organisation of a calibration laboratory, as well as basic metrological technical requirements.

Only an accredited calibration laboratory can issue a DAkkS calibration (DKD) certificate. This defines not only the measuring method as well as the measuring result, but also gives information on tracing the test medium to national standards and the relevant uncertainty of measurement.

→ **You are certified to ...**
ISO 9001, QS 9000, GLP, GMP, TS16949

→ **You need ...**
to control your measuring equipment

→ **Our solution ...**
DAkkS calibration certificate (DKD); (traceability, measuring uncertainty, internationally recognised)

KERN – Precision is our business

The KERN calibration laboratory for electronic balances and weights has been DKD accredited since 1994 and today it is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights and force measurement in Europe.

Thanks to the high level of automation, we can carry out DAkkS calibration (DKD) of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Do you have any further requests or questions on this matter? We would be pleased to help you or visit us on the web at **www.kern-lab.com**

Range of services:

- DAkkS calibration (DKD) of balances with a maximum load of up to 50.000 kg
- DAkkS calibration (DKD) of weights in the range of 1 mg – 2.500 kg. Calibrations can be carried out in the following classes: E1, E2, F1, F2, M1, M2, M3
- Database supported management of checking equipment and reminding service
- In combination with periodic recalibration we can offer you a wide range of further services:
  - Reconditioning of weights, e.g. cast weights (sand blasting, painting, adjustment etc.)
  - Collection service with special transport packaging, even for heavy weights
  - Volume determination for weights of accuracy class E1
  - Measuring of sensitivity (magnetic characteristics)
- Calibration of force-measuring devices
- DAkkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL

DAkkS calibration (DKD)

Why? DAkkS calibration (DKD) is always necessary when checking equipment (balance or test weight) is to be used in a QM process (e.g. to ISO 9000ff, GS 9000, TS 16949, VDA 6.1, FDA, GLP, GMP, GMP etc.)

What? Any checking equipment in proper condition can be DAkkS calibrated (DKD)

How? Determination of accuracy throughout the world by a laboratory which is accredited to DIN EN ISO 17025. Traceability to internationally recognised standards. The DAkkS calibration (DKD) certificate confirms both the measurement characteristics of the checking equipment and the general requirements for the control of checking equipment.

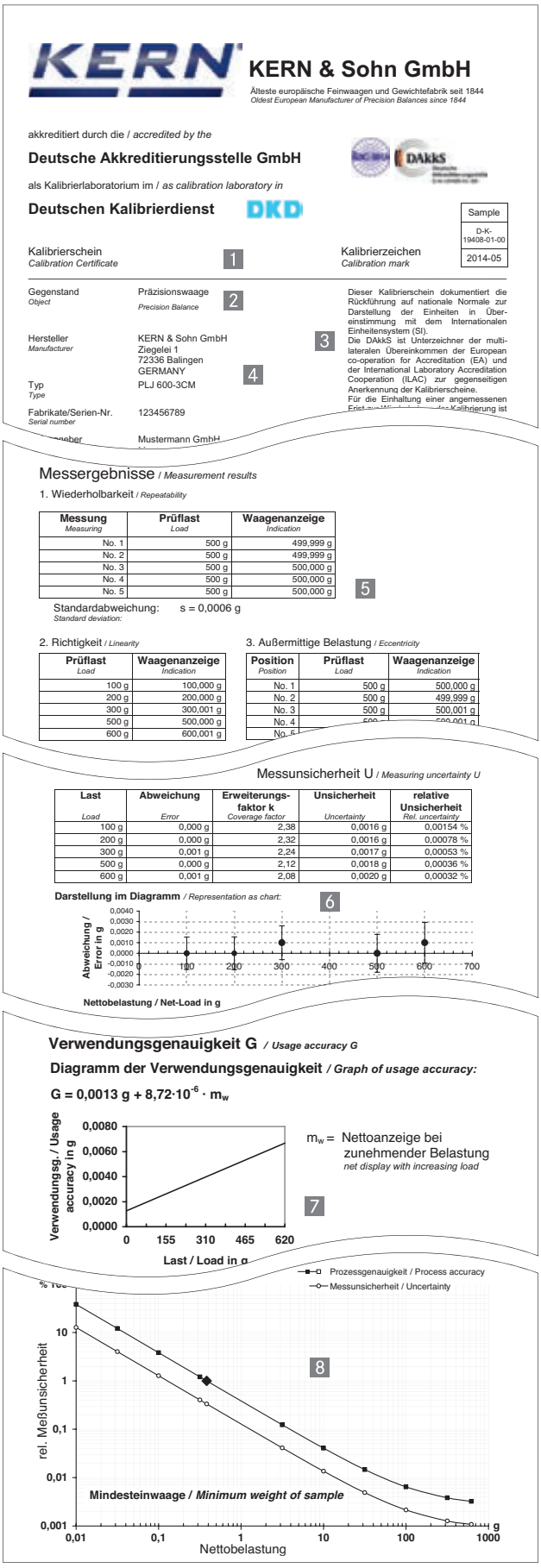
Where? Internationally recognised – this is monitored by ILAC (International Laboratory Accreditation Cooperation) and e.g. DAkkS (German calibration service) in Germany

When? Operator control the use of checking equipment and periodic recalibration time intervals themselves

Martin Goltz
Product specialist Calibration service

Tel. +49 [0] 7433 9933 - 151
Fax +49 [0] 7433 9933 - 172
goltz@kern-sohn.com

Calibration service for balances (DAkkS calibration)



KERN & Sohn GmbH

Älteste europäische Feinwaagen und Gewichtefabrik seit 1844
Oldest European Manufacturer of Precision Balances since 1844

akkreditiert durch die / *accredited by the*

Deutsche Akkreditierungsstelle GmbH

als Kalibrierlaboratorium im / *as calibration laboratory in*

Deutschen Kalibrierdienst DKD

Sample
D-K-19408-01-00
2014-05

Kalibrierschein / *Calibration Certificate* 1

Kalibrierzeichen / *Calibration mark*

Gegenstand / *Object*	Präzisionswaage / *Precision Balance* 2
Hersteller / *Manufacturer*	KERN & Sohn GmbH Ziegelei 1 72336 Balingen GERMANY 4
Typ / *Type*	PLJ 600-3CM
Fabrikate/Serien-Nr. / *Serial number*	123456789
...aber	Mustermann GmbH

3 Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI).
Die DAkkS ist Unterzeichner der multilateralen Übereinkommen der European co-operation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine.
Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist

Messergebnisse / *Measurement results*

1. Wiederholbarkeit / *Repeatability*

Messung / *Measuring*	Prüflast / *Load*	Waagenanzeige / *Indication*
No. 1	500 g	499,999 g
No. 2	500 g	499,999 g
No. 3	500 g	500,000 g
No. 4	500 g	500,000 g
No. 5	500 g	500,000 g

5

Standardabweichung: / *Standard deviation:* s = 0,0006 g

2. Richtigkeit / *Linearity*

Prüflast / *Load*	Waagenanzeige / *Indication*
100 g	100,000 g
200 g	200,000 g
300 g	300,001 g
500 g	500,000 g
600 g	600,001 g

3. Außermittige Belastung / *Eccentricity*

Position / *Position*	Prüflast / *Load*	Waagenanzeige / *Indication*
No. 1	500 g	500,000 g
No. 2	500 g	499,999 g
No. 3	500 g	500,001 g
No. 4	500 g	500,001 g
No. 5		

Messunsicherheit U / *Measuring uncertainty U*

Last / *Load*	Abweichung / *Error*	Erweiterungsfaktor k / *Coverage factor*	Unsicherheit / *Uncertainty*	relative Unsicherheit / *Rel. uncertainty*
100 g	0,000 g	2,38	0,0016 g	0,00154 %
200 g	0,000 g	2,32	0,0016 g	0,00078 %
300 g	0,001 g	2,24	0,0017 g	0,00053 %
500 g	0,000 g	2,12	0,0018 g	0,00036 %
600 g	0,001 g	2,08	0,0020 g	0,00032 %

Darstellung im Diagramm / *Representation as chart:* 6

Verwendungsgenauigkeit G / *Usage accuracy G*

Diagramm der Verwendungsgenauigkeit / *Graph of usage accuracy:*

$G = 0{,}0013\ g + 8{,}72 \cdot 10^{-6} \cdot m_w$

m_w = Nettoanzeige bei zunehmender Belastung
net display with increasing load

7

8

DAkkS calibration certificate for balances (extract)

1 Official document
2 Item to be calibrated
3 Traceability, see page 216
4 Identification/Applicant
5 Metrological component
6 Measuring uncertainty, see page 215
7 Usage accuracy, see page 216
8 Minimum weight of sample (additional price)

The advantages of using the KERN in-house calibration

You send your balance to us.
Recommendable with new equipment and for balances which can be transported economically, as the travel costs for on-site calibration are then not applied.
On request, we can also provide a pick-up and collection service with our parcel service.

The advantages of using the KERN on-site calibration

We visit you.
In Germany, KERN has access to a comprehensive network of employees at the KERN DAkkS calibration laboratory, who can carry out on-site calibration of scales up to 50 t.
The calibration service is **independent of the brand.**
Preliminary maintenance work by agreement.
Prices for on-site calibration on request.

Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements.
- We would recommend that you recalibrate your balances every 6 months if they are used intensively, and every 12 months with normal use.

Initial calibration and recalibration of balance at the KERN factory	**KERN**	**Price** excl. of VAT ex works **€**
Weighing range		
Analytical balances		
[Max] ≤ 5 kg	963-101	**138,-**
[Max] > 5 kg	963-102	**176,-**
Precision balances/Industrial scales		
[Max] ≤ 5 kg	963-127	**72,-**
[Max] > 5 kg – 50 kg	963-128	**88,-**
[Max] > 50 kg – 350 kg	963-129	**105,-**
[Max] > 350 kg – 1500 kg	963-130	**165,-**
[Max] > 1500 kg – 2900 kg [1]	963-131	**220,-**
[Max] > 2900 kg – 6000 kg [1]	963-132	**440,-**
[Max] > 6000 kg – 12000 kg [1]	963-133	**500,-**
Hanging scales/Crane scales		
[Max] ≤ 5 kg	963-127H	**72,-**
[Max] > 5 kg – 50 kg	963-128H	**88,-**
[Max] > 50 kg – 350 kg	963-129H	**105,-**
[Max] > 350 kg – 1500 kg	963-130H	**165,-**
[Max] > 1500 kg – 2900 kg	963-131H	**250,-**
[Max] > 2900 kg – 6000 kg	963-132H	**500,-**
[Max] > 6000 kg – 12000 kg [3]	963-133H	**700,-**
[Max] > 12000 kg – 31000 kg [4] (recalibration only)	963-134HR	**830,-**
[Max] > 31000 kg – 50000 kg [4] (recalibration only)	963-135HR	**830,-**
Preparation for recalibration (cleaning, adjustment, function test)	969-003R	**20,-**
Additional services		
Minimum weight of sample (for details see internet)	969-103	**10,-**
DAkkS Express service with delivery time 48 hours (only on initial purchase, details see p. 188)	962-116	**50,-/ scale**
Express shipping: Express supplement for guaranteed delivery on the next working day (if ready for shipment before 12:00 noon)	in GER only	**40,-/ parcel**

[1] Floor scales & axle load scales only (Price per weighing panel). Please ask for further details.
[2] On request
[3] Processing time 4 working days
[4] Processing time 15 working days

Calibration service for test weights (DAkkS calibration)

KERN & Sohn GmbH
Älteste europäische Feinwaagen und Gewichtefabrik seit 1844
Oldest European Manufacturer of Precision Balances since 1844

akkreditiert durch die / *accredited by the*
Deutsche Akkreditierungsstelle GmbH

als Kalibrierlaboratorium im / *as calibration laboratory in the*
Deutschen Kalibrierdienst

G1-123
D-K-19408-01-00
2014-05

Kalibrierschein / *Calibration certificate* — 1
Kalibrierzeichen / *Calibration mark*

Gegenstand / *Object*	Gewichtssatz, 1 mg - 1 kg Klasse E2 — 2 *Set of weights, 1 mg - 1 kg Class E2*
Hersteller / *Manufacturer*	KERN & Sohn GmbH Ziegelei 1 D-72336 Balingen Germany
Typ / *Type*	313-052
Fabrikate/Serien-Nr. / *Serial number*	G123456789
Auftraggeber / *Customer*	Mustermann GmbH Teststr.1 42446 Musterstadt Deutschland — 4
Auftragsnummer	2014-123456789

3 Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI).
Die DAkkS ist Unterzeichner der multilateralen Übereinkommen der European co-operation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine.
Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI).
The DAkkS is signatory to the multilateral agreements of the European co-operation for Accreditation (EA) and of the International [illegible] (ILAC) for

Kalibrierverfahren: / *Calibration method*
Die Kalibrierung erfolgte durch Vergleich mit den Bezugsnormalen des Kalibrierlaboratoriums nach der Substitutionsmethode mit Auftriebskorrektur.
The calibration ensued through comparison with the reference standards of the calibration laboratory using the substitution method with air buoyancy correction.

Umgebungsbedingungen: / *Ambient conditions*
Die Kalibrierung wurde bei folgenden Umgebungsbedingungen ausgeführt:
The calibration was carried out under the following ambient conditions:

5

	von / *from*	bis / *to*	Unsicherheit / *uncertainty*
Temperatur (°C) *temperature*	22,9	24,1	0,1
rel. Luftfeuchte (%) *relative humidity*	48,5	53,4	2,0
Luftdruck (hPa) *air pressure*	942,5	948,5	0,3

Referenzgewichte: / *Standard weights* G1-123-D-K-19408-01-00-2014-05

Material / angenommene Dichte: / *Material / assumed density*

Nennwert *nominal value*	Dichte *density*	Unsicherheit *uncertainty*	Material *material*	Form *shape*
1 mg - 500 mg	7950 kg/m³	140 kg/m³	Edelstahl *Stainless steel*	Draht *Wire*
1 g - 1 kg	8000 kg/m³	100 kg/m³	Edelstahl *Stainless steel*	Knopf *Cylindrical form*

6

Messergebnisse: / *Measurement results:* 7 8

Nennwert *nominal value*	Kennzeichnung *marking*	konventioneller Wägewert *conventional mass*	Unsicherheit k=2 *uncertainty*	Fehlergrenze *max. perm. error*	Klasse* *class**
1 mg		1 mg + 0,0010 mg	0,0020 mg	± 0,0060 mg	E2 ✓
2 mg		2 mg + 0,0005 mg	0,0020 mg	± 0,0060 mg	E2 ✓
2 mg	*	2 mg + 0,0016 mg	0,0020 mg	± 0,0060 mg	E2 ✓
5 mg		5 mg + 0,0010 mg	0,0020 mg	± 0,0060 mg	E2 ✓
10 mg		10 mg + 0,0009 mg	0,0020 mg	± 0,0080 mg	E2 ✓
20 mg		20 mg - 0,001 mg	0,003 mg	± 0,010 mg	E2 ✓
20 mg	*	20 mg + 0,001 mg	0,003 mg	± 0,010 mg	E2 ✓
50 mg		50 mg + 0,001 mg	0,004 mg	± 0,012 mg	E2 ✓
100 mg		100 mg + 0,001 mg	0,005 mg	± 0,016 mg	E2 ✓
200 mg		200 mg + 0,002 mg	0,006 mg	± 0,020 mg	E2 ✓
200 mg	*	200 mg + 0,003 mg	0,006 mg	± 0,020 mg	E2 ✓
500 mg		500 mg + 0,005 mg	0,008 mg	± 0,025 mg	E2 ✓
1 g		1 g + 0,002 mg	0,010 mg	± 0,030 mg	E2 ✓
2 g		2 g + 0,002 mg	0,013 mg	± 0,040 mg	E2 ✓
2 g	*	2 g + 0,002 mg	0,013 mg	± 0,040 mg	E2 ✓
5 g		5 g + 0,010 mg	0,016 mg	± 0,050 mg	E2 ✓
10 g		10 g - 0,007 mg	0,020 mg	± 0,060 mg	E2 ✓
20 g		20 g + 0,005 mg	0,026 mg	± 0,080 mg	E2 ✓
20 g	*	20 g + 0,015 mg	0,026 mg	± 0,080 mg	E2 ✓
50 g		50 g + 0,02 mg	0,03 mg	± 0,10 mg	E2 ✓
100 g		100 g + 0,01 mg	0,05 mg	± 0,16 mg	E2 ✓
200 g		200 g + 0,05 mg	0,10 mg	± 0,30 mg	E2 ✓
200 g	*	200 g - 0,00 mg	0,10 mg	± 0,30 mg	E2 ✓
500 g		500 g + 0,10 mg	0,26 mg	± 0,80 mg	E2 ✓
1 kg		1 kg + 0,1 mg	0,5 mg	± 1,6 mg	E2 ✓

DAkkS calibration certificate for test weights (extract)
For more details on our calibration service and other useful information, please see the internet on www.kern-lab.com

1 Official document
2 Item to be calibrated
3 Traceability, see page 216
4 Identification/Applicant
5 Environmental conditions
6 Metrological component
7 Conventional mass
8 Measuring uncertainty, see page 215

Calibration of test weights

Calibrated measuring equipment requires calibrated checking equipment. For balances, these are calibrated test weights, also called “standard weights”.

We calibrate test weights

- In all classes with permissible error limits E1 – M3 according to OIML R111-2004 (for tolerance tables, see page 190), in sizes 1 mg to 2500 kg.
- With free nominal value
- Newton (N)
- Independent of design (special designs)

The advantages of using the KERN in-house calibration

You send your test weights to us.
- Excellent price performance ratio
- The quickest processing time
  - DAkkS standard service: 4 working days
  - DAkkS express service: 48 hrs (new weights)
- The most modern calibration methods with robot controlled comparators allow the most accurate calibration results and fastest throughput time
- KERN DAkkS calibration certificates are internationally recognised
- A calibration service which is independent of the brand
- KERN also reconditions existing customer weights (e.g. cleaning or readjustment)
- On request, we can also provide a pick-up and collection service with our parcel service

The advantages of using the KERN on-site calibration

We visit you.
We would be pleased to visit you within Germany and carry out the calibration of your reference standards to OIML classes M1 – M3, 10 kg, 20 kg, 25 kg, 40 kg, 50 kg with permissible error limits, using our mobile MACOS system. Minimized downtime of your checking equipment and direct contact with our expert are the major benefits of this service. Price on request.

Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements.
- In terms of standardisation, no particular recalibration interval is specified.
- We would recommend that you recalibrate your test weights every 6 months if they are used intensively, and every 12 months with normal use.
- We would be pleased to monitor your recalibration schedule.

Note:
For more information on this subject, please see our KERN DAkkS calibration service brochure – just request your free copy.

Recalibration price of test weights (DAkkS calibration)

Class acc. → OIML R111-2004	E1 with volume determination		E1 without volume determination		E2		F1/F2 * F2 only		M1/M2/M3	
Nominal value ↓	**KERN**	**Price €** excl. of VAT ex works	**KERN**	**Price €** excl. of VAT ex works	**KERN**	**Price €** excl. of VAT ex works	**KERN**	**Price €** excl. of VAT ex works	**KERN**	**Price €** excl. of VAT ex works
1 mg	–	–	962-251R	**52,-**	962-351R	**26,-**	962-451R	**18,-**	962-651R	**15,-**
2 mg	–	–	962-252R	**52,-**	962-352R	**26,-**	962-452R	**18,-**	962-652R	**15,-**
5 mg	–	–	962-253R	**52,-**	962-353R	**26,-**	962-453R	**18,-**	962-653R	**15,-**
10 mg	–	–	962-254R	**52,-**	962-354R	**26,-**	962-454R	**18,-**	962-654R	**15,-**
20 mg	–	–	962-255R	**52,-**	962-355R	**26,-**	962-455R	**18,-**	962-655R	**15,-**
50 mg	–	–	962-256R	**52,-**	962-356R	**26,-**	962-456R	**18,-**	962-656R	**15,-**
100 mg	–	–	962-257R	**52,-**	962-357R	**26,-**	962-457R	**18,-**	962-657R	**15,-**
200 mg	–	–	962-258R	**52,-**	962-358R	**26,-**	962-458R	**18,-**	962-658R	**15,-**
500 mg	–	–	962-259R	**52,-**	962-359R	**26,-**	962-459R	**18,-**	962-659R	**15,-**
1 g	963-231	**193,-**	962-231R	**52,-**	962-331R	**26,-**	962-431R	**18,-**	962-631R	**15,-**
2 g	963-232	**193,-**	962-232R	**52,-**	962-332R	**26,-**	962-432R	**18,-**	962-632R	**15,-**
5 g	963-233	**193,-**	962-233R	**52,-**	962-333R	**26,-**	962-433R	**18,-**	962-633R	**15,-**
10 g	963-234	**193,-**	962-234R	**52,-**	962-334R	**26,-**	962-434R	**18,-**	962-634R	**15,-**
20 g	963-235	**193,-**	962-235R	**52,-**	962-335R	**26,-**	962-435R	**18,-**	962-635R	**15,-**
50 g	963-236	**193,-**	962-236R	**52,-**	962-336R	**26,-**	962-436R	**18,-**	962-636R	**15,-**
100 g	963-237	**193,-**	962-237R	**52,-**	962-337R	**33,-**	962-437R	**20,-**	962-637R	**16,-**
200 g	963-238	**193,-**	962-238R	**52,-**	962-338R	**33,-**	962-438R	**20,-**	962-638R	**16,-**
500 g	963-239	**193,-**	962-239R	**52,-**	962-339R	**33,-**	962-439R	**20,-**	962-639R	**16,-**
1 kg	963-241	**193,-**	962-241R	**52,-**	962-341R	**33,-**	962-441R	**20,-**	962-641R	**16,-**
2 kg	963-242	**465,-**	962-242R	**64,-**	962-342R	**41,-**	962-442R	**25,-**	962-642R	**17,-**
5 kg	963-243	**465,-**	962-243R	**64,-**	962-343R	**41,-**	962-443R	**25,-**	962-643R	**17,-**
10 kg	963-244	**465,-**	962-244R	**64,-**	962-344R	**41,-**	962-444R	**25,-**	962-644R	**17,-**
20 kg	963-245	**1160,-**	962-245R	**590,-**	962-345R	**52,-**	962-445R	**28,-**	962-645R	**22,-**
50 kg	963-246	**1360,-**	962-246R	**660,-**	962-346R	**64,-**	962-446R	**39,-**	962-646R	**24,-**
100 kg	–	–	–	–	–	–	962-591R*	**116,-**	962-691R	**63,-**
200 kg	–	–	–	–	–	–	962-592R*	**116,-**	962-692R	**63,-**
500 kg	–	–	–	–	–	–	962-593R*	**116,-**	962-693R	**63,-**
1000 kg	–	–	–	–	–	–	–	–	962-694R	**136,-**
2000 kg	–	–	–	–	–	–	–	–	962-695R	**250,-**
1 mg – 500 mg	–	–	962-250R	**350,-**	962-350R	**190,-**	962-450R	**100,-**	962-650R	**63,-**
1 mg – 50 g	963-201	**1070,-**	962-201R	**560,-**	962-301R	**315,-**	962-401R	**167,-**	962-601R	**106,-**
1 mg – 100 g	963-202	**1170,-**	962-202R	**580,-**	962-302R	**340,-**	962-402R	**178,-**	962-602R	**112,-**
1 mg – 200 g	963-203	**1350,-**	962-203R	**630,-**	962-303R	**385,-**	962-403R	**199,-**	962-603R	**125,-**
1 mg – 500 g	963-204	**1440,-**	962-204R	**660,-**	962-304R	**410,-**	962-404R	**210,-**	962-604R	**131,-**
1 mg – 1 kg	963-205	**1530,-**	962-205R	**700,-**	962-305R	**435,-**	962-405R	**220,-**	962-605R	**137,-**
1 mg – 2 kg	963-206	**2000,-**	962-206R	**750,-**	962-306R	**495,-**	962-406R	**250,-**	962-606R	**152,-**
1 mg – 5 kg	963-207	**2450,-**	962-207R	**770,-**	962-307R	**530,-**	962-407R	**265,-**	962-607R	**160,-**
1 mg – 10 kg	963-208	**2900,-**	962-208R	**800,-**	962-308R	**560,-**	962-408R	**285,-**	962-608R	**167,-**
1 g – 50 g	963-215	**770,-**	962-215R	**245,-**	962-315R	**127,-**	962-415R	**67,-**	962-615R	**42,-**
1 g – 100 g	963-216	**860,-**	962-216R	**270,-**	962-316R	**150,-**	962-416R	**77,-**	962-616R	**49,-**
1 g – 200 g	963-217	**1040,-**	962-217R	**320,-**	962-317R	**196,-**	962-417R	**98,-**	962-617R	**61,-**
1 g – 500 g	963-218	**1130,-**	962-218R	**350,-**	962-318R	**220,-**	962-418R	**109,-**	962-618R	**68,-**
1 g – 1 kg	963-219	**1230,-**	962-219R	**375,-**	962-319R	**245,-**	962-419R	**119,-**	962-619R	**74,-**
1 g – 2 kg	963-220	**1780,-**	962-220R	**425,-**	962-320R	**305,-**	962-420R	**151,-**	962-620R	**89,-**
1 g – 5 kg	963-221	**2230,-**	962-221R	**450,-**	962-321R	**340,-**	962-421R	**166,-**	962-621R	**96,-**
1 g – 10 kg	963-222	**2690,-**	962-222R	**485,-**	962-322R	**370,-**	962-422R	**182,-**	962-622R	**104,-**

Additional costs for preparation, overhaul and adjustment before the calibration	**KERN**	**Price €** excl. of VAT ex works
Preparation of weights (e.g. cleaning, etc.)		
Single weight	969-001R	**3,-**
Weight set	969-002R	**16,-**
Subsequent services are carried out after confirmation		
Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E1 (DAkkS only), E2 ...)	969-005R	**T & M basis**
Adjustment, per weight only available for weights with adjustment chamber (F1 – M3)	969-010R	**12,-**
Second calibration after adjustment or substitution, per weight		
Class E1	969-210R	**40,-**
Class E1 incl. volume determination	969-211R	**80,-**
Class E2	969-310R	**14,-**
Class F1/F2	969-410R	**14,-**
Class M1 – M3	969-610R	**14,-**
Testing of magnetic properties according to OIML R111-2004, per weight	972-000	**12,-**
Calibration of NON-OIML test weights, additional price per weight	–	**8,-**

KERN DAkkS Express Service	
DAkkS standard service Class E2 – M3	4 working days
DAkkS standard service Class E1, 1 mg – 500 mg, and recalibration 1 g – 10 kg with a known volume	10 working days
Class E1, 1 g – 2 kg, incl. volume determination (new weights)	15 working days
Class E1, ≥ 2 kg, incl. volume determination (new weights)	15 working days

DAkkS Express service in 48 hours
except for class E1

- Urgent order is received at KERN by 12:00 noon at the latest
- Ready for shipping at KERN within two working days, at 12:00 noon
- Return by standard parcel service or express shipping (Costs and processing time on request)
- Additional cost for DAkkS Express Service, for each KERN test weight KERN KERN 962-115 **€ 20,–**
- For Express shipping, see page 209

Verification prices for test weights

Class acc. → OIML R111-2004	E2 with verification certificate		F1/F2 with verification certificate		M1 with verification certificate	
Nominal value ↓	KERN	Price excl. of VAT ex works €	KERN	Price excl. of VAT ex works €	KERN	Price excl. of VAT ex works €
1 mg	952-351	**40,-**	952-451	**35,-**	952-651	**24,-**
2 mg	952-352	**40,-**	952-452	**35,-**	952-652	**24,-**
5 mg	952-353	**40,-**	952-453	**35,-**	952-653	**24,-**
10 mg	952-354	**40,-**	952-454	**35,-**	952-654	**24,-**
20 mg	952-355	**40,-**	952-455	**35,-**	952-655	**24,-**
50 mg	952-356	**40,-**	952-456	**35,-**	952-656	**24,-**
100 mg	952-357	**40,-**	952-457	**35,-**	952-657	**24,-**
200 mg	952-358	**40,-**	952-458	**35,-**	952-658	**24,-**
500 mg	952-359	**40,-**	952-459	**35,-**	952-659	**24,-**
1 g	952-331	**40,-**	952-431	**35,-**	952-631	**24,-**
2 g	952-332	**40,-**	952-432	**35,-**	952-632	**24,-**
5 g	952-333	**40,-**	952-433	**35,-**	952-633	**24,-**
10 g	952-334	**40,-**	952-434	**35,-**	952-634	**24,-**
20 g	952-335	**40,-**	952-435	**35,-**	952-635	**24,-**
50 g	952-336	**40,-**	952-436	**35,-**	952-636	**24,-**
100 g	952-337	**45,-**	952-437	**35,-**	952-637	**24,-**
200 g	952-338	**45,-**	952-438	**36,-**	952-638	**24,-**
500 g	952-339	**45,-**	952-439	**36,-**	952-639	**24,-**
1 kg	952-341	**45,-**	952-441	**36,-**	952-641	**24,-**
2 kg	952-342	**51,-**	952-442	**40,-**	952-642	**25,-**
5 kg	952-343	**51,-**	952-443	**40,-**	952-643	**25,-**
10 kg	952-344	**51,-**	952-444	**40,-**	952-644	**32,-**
20 kg	952-345	**59,-**	952-445	**42,-**	952-645	**36,-**
50 kg	952-346	**67,-**	952-446	**50,-**	952-646	**37,-**
1 mg – 500 mg	952-350	**200,-**	952-450	**105,-**	952-650	**66,-**
1 mg – 50 g	952-301	**330,-**	952-401	**175,-**	952-601	**111,-**
1 mg – 100 g	952-302	**360,-**	952-402	**187,-**	952-602	**117,-**
1 mg – 200 g	952-303	**405,-**	952-403	**210,-**	952-603	**131,-**
1 mg – 500 g	952-304	**430,-**	952-404	**220,-**	952-604	**137,-**
1 mg – 1 kg	952-305	**455,-**	952-405	**230,-**	952-605	**144,-**
1 mg – 2 kg	952-306	**520,-**	952-406	**260,-**	952-606	**159,-**
1 mg – 5 kg	952-307	**560,-**	952-407	**280,-**	952-607	**168,-**
1 mg – 10 kg	952-308	**590,-**	952-408	**300,-**	952-608	**175,-**
1 g – 50 g	952-315	**133,-**	952-415	**76,-**	952-615	**50,-**
1 g – 100 g	952-316	**157,-**	952-416	**81,-**	952-616	**54,-**
1 g – 200 g	952-317	**205,-**	952-417	**103,-**	952-617	**64,-**
1 g – 500 g	952-318	**235,-**	952-418	**114,-**	952-618	**71,-**
1 g – 1 kg	952-319	**255,-**	952-419	**125,-**	952-619	**78,-**
1 g – 2 kg	952-320	**320,-**	952-420	**158,-**	952-620	**93,-**
1 g – 5 kg	952-321	**355,-**	952-421	**174,-**	952-621	**101,-**
1 g – 10 kg	952-322	**390,-**	952-422	**191,-**	952-622	**109,-**

KERN verification delivery time	
Standard verification service Class E2 – M1	6 working days

Additional costs for preparation, overhaul and adjustment before the verification	KERN	Price excl. of VAT ex works €
Preparation of weights (e.g. cleaning, etc.)		
Single weight	969-008R	**3,-**
Weight set	969-009R	**16,-**
Subsequent services are carried out after confirmation		
Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E2 ...)	969-005R	**T & M basis**
Adjustment, per weight only available for weights with adjustment chamber (F1/F2 – M1)	969-010R	**12,-**
Verification after adjustment or substitution, per weight		
Class E2	969-310R	**14,-**
Class F1/F2	969-410R	**14,-**
Class M1/M3	969-610R	**14,-**

Verification prices for electronic balances (electronic crane scales, see page 213)

Checking equipment	Initial verification KERN	Price excl. of VAT ex works €	Subsequent verification KERN	Price excl. of VAT ex works €
Electronic balances, class I, [Max] ≤ 5 kg [1]	965-201	**110,-**	950-101R	**180,-**
Electronic balances, class I, [Max] > 5 kg [1]	965-202	**110,-**	950-102R	**230,-**
Electronic balances, class II, [Max] ≤ 5 kg [1]	965-216	**66,-**	950-116R	**90,-**
Electronic balances, class II, [Max] > 5 kg – 50 kg [1]	965-217	**77,-**	950-117R	**110,-**
Electronic balances, class II, [Max] > 50 kg – 350 kg [1]	965-218	**110,-**	950-118R	**170,-**
Electronic balances, class III–IV, [Max] ≤ 5 kg [1]	965-227	**55,-**	950-127R	**86,-**
Electronic balances, class III–IV, [Max] > 5 kg – 50 kg [1]	965-228	**55,-**	950-128R	**86,-**
Electronic balances, class III–IV, [Max] > 50 kg – 350 kg [1]	965-229	**93,-**	950-129R	**138,-**
Electronic balances, class III–IV, [Max] > 350 kg – 1500 kg [1]	965-230	**132,-**	950-130R	**200,-**
Electronic balances, class III–IV, [Max] > 1500 kg – 2900 kg [1]	965-231	**220,-**	950-131R	**280,-**
Electronic balances, class III–IV, [Max] > 2900 kg – 6000 kg [1]	965-232	**320,-**	950-132R	**430,-**

[1] processing time 4 working days, [2] processing time 15 working days

Verification prices for electronic crane scales

Checking equipment	Initial verification KERN	Price excl. of VAT ex works €	Subsequent verification KERN	Price excl. of VAT ex works €
Electronic crane scales, class III–IV, [Max] > 50 kg – 350 kg [1]	950-129H	**105,-**	950-129HR	**150,-**
Electronic crane scales, class III–IV, [Max] > 350 kg – 1500 kg [1]	950-130H	**200,-**	950-130HR	**250,-**
Electronic crane scales, class III–IV, [Max] > 1500 kg – 2900 kg [1]	950-131H	**270,-**	950-131HR	**360,-**
Electronic crane scales, class III–IV, [Max] > 2900 kg – 6000 kg [1]	950-132H	**500,-**	950-132HR	**550,-**
Electronic crane scales, class III–IV, [Max] > 6000 kg – 12000 kg [1]	950-133H	**700,-**	950-133HR	**870,-**
Electronic crane scales, class III–IV, [Max] > 12000 kg – 31000 kg [2]	–	–	950-134HR	**1060,-**
Electronic crane scales, class III–IV, [Max] > 31000 kg – 50000 kg [2]	–	–	950-135HR	**1060,-**

[1] processing time 4 working days, [2] processing time 15 working days

Factory calibration certificates (ISO calibration)

Mechanical hanging scales, prices for initial calibration and recalibration

Checking equipment	Initial calibration KERN	Recalibration KERN	Price excl. of VAT ex works €
Mechanical hanging scales (spring scales) [Max] ≤ 5 kg	961-100	961-100R	**72,-**
Mechanical hanging scales [Max] > 5 kg – 50 kg	961-101	961-101R	**88,-**
Mechanical hanging scales [Max] > 50 kg – 350 kg	961-102	961-102R	**105,-**
Mechanical hanging scales [Max] > 350 kg – 1500 kg	961-103	961-103R	**165,-**
Mechanical hanging scales [Max] > 1500 kg – 3000 kg	961-104	961-104R	**220,-**
Mechanical hanging scales [Max] > 3000 kg – 6000 kg	961-105	961-105R	**440,-**
Mechanical hanging scales [Max] > 6000 kg – 12000 kg	961-106	961-106R	**500,-**

Force gauges, tensile force, prices for initial calibration and recalibration

Checking equipment	Initial calibration Tensile force KERN	Recalibration Tensile force KERN	Price excl. of VAT ex works €
Force gauges [Max] 300 N, 400 N, 500 N (DAkkS Calibration)	963-161	963-161R	**250,-**
Force gauges [Max] ≤ 500 N	961-161	961-161R	**135,-**
Force gauges [Max] > 500 N – 2 kN	961-162	961-162R	**165,-**
Force gauges [Max] > 2 kN – 10 kN	961-163	961-163R	**225,-**
Force gauges [Max] > 10 kN – 20 kN	961-164	961-164R	**350,-**
Force gauges [Max] > 20 kN – 50 kN	961-165	961-165R	**520,-**
Force gauges [Max] > 50 kN – 120 kN	961-166	961-166R	**940,-**

Force gauges, compression force, prices for initial calibration and recalibration

Checking equipment	Initial calibration Compression force KERN	Recalibration Compression force KERN	Price excl. of VAT ex works €
Force gauges [Max] > 50 N – 500 N	961-261	961-261R	**135,-**
Force gauges [Max] > 500 N – 2 kN	961-262	961-262R	**165,-**
Force gauges [Max] > 2 kN – 5 kN	961-263	961-263R	**225,-**

Force gauges, tensile and compression force, prices for initial calibration and recalibration

Checking equipment	Initial calibration Tensile force/ Compression force KERN	Recalibration Tensile force/ Compression force KERN	Price excl. of VAT ex works €
Force gauges [Max] > 50 N – 500 N	961-361	961-361R	**245,-**
Force gauges [Max] > 500 N – 2 kN	961-362	961-362R	**300,-**
Force gauges [Max] > 2 kN – 5 kN	961-363	961-363R	**405,-**

Measuring instruments, prices for initial calibration and recalibration

Checking equipment	Initial calibration KERN	Recalibration KERN	Price excl. of VAT ex works €
Hardness testing devices in accordance with Leeb tests (Type D)	961-131	961-131R	**120,-**
Coating thickness gauges 0 µm – 2000 µm (Ferro or NonFerro)	961-110	961-110R	**120,-**
Coating thickness gauges 0 µm – 2000 µm (Ferro and NonFerro)	961-112	961-112R	**170,-**
Ultrasonic material thickness testing devices 25 mm – 300 mm	961-113	961-113R	**120,-**

A

Accuracy classes for test weights

E, F, M ➔ ***Error limit classes***

Adjusting of measurement equipment

Precise setting of a measurement value via a professional intervention in the measurement system.

Adjusting the weighing range of a balance

Either with the external test weight via **the adjusting program CAL, or with the internal automatic adjustment resp. adjusting switch.** It is necessary with variations in temperature, a change of environmental conditions, change of location, etc. **Recommended as a daily check routine.**

Alibi memory

For weighings where verification is mandatory, and which are to be analysed and processed by a PC (e.g. printing out a packing list using a PC instead of a printer connected directly to the balance) electronic archiving is required by the metrological authorities by a verifiable data memory which cannot be manipulated.

Alibi memories from KERN fulfil this requirement. They are for paperless archiving of weighing results. For KERN products the alibi memory is fitted inside the balance, right between where the weight is determined and the output to the PC.

All data transferred to the PC is stored with date, time and all important weights for at least three months. These stored data strings can be displayed on the balance at any time. The data in the alibi memory can be deleted, but not changed.

Application accuracy

Allowance for measuring uncertainty during practical use of a balance. Is given in the appendix to the DKD calibration certificate.

ATEX

Derived from **AT**mosphère **EX**plosibles. (explosive atmosphere). A synonym for EU guidelines, which controls the quality and use of equipment in hazardous industrial environments, where there is explosion danger, e.g. by handling of flammable substances, which are present in high concentrations in the form of gas, mist, vapour or dust. See also 94/9/EC as well as 199/92/EC.

B

Balances which are verified/not approved for verification

Metrologically almost identical. For verified balances certain details are regulated by law, e.g. software changes and additional markings.

C

CAL

Adjusting the balance is triggered by using the CAL key on the key pad or on the touch display of the display device or the CAL menu option. This will guarantee the consistent high accuracy of the balance.

Calibration Certificate DKD/DAkkS

See product group 18 “Calibration service”

Calibration of measurement equipment:

determination of the precision of a measurement value without intervention in the measurement system. Example: to check a balance you load a ➔ ***test weight upon it***. The term “Calibrating” was formerly also used for ➔ ***Adjusting***.

Calibration or verification

DAkkS-Calibration is possible for every balance in perfect condition. DAkkS calibration is a private service monitored by the state for ensuring high quality requirements according to ISO 9000ff and others, e.g. in production or research. **M Verifying** is only possible for type-approved balances marked with the green **M**

➔ ***Verification***

Conformity assessment

Procedure for confirming warranted characteristics in accordance with recognised rules. For balances this relates to verification.

Conformity declaration from the manufacturer

The manufacturer declares that the product fulfils the applicable EU directives. With electronic balances this is always in conjunction with the CE mark.

Control of measuring equipment in the QM system in conjunction with quality standards

An organisation certified to a quality standard such as DIN/EN/ISO 9000 ff. e.g. a production plant is obliged to adhere to a defined quality standard within the framework of its quality management system. To do this, it is imperative to have a measurement equipment which is working accurately.
DIN/EN/ISO 9001, December Edition 2008 states in section 7.6 “Guidance of monitoring and measurement equipment”, that measurement equipment must be calibrated is defined intervals and before use. The measurement devices and measurement standards needed to do this must:

- be traced back to international or national standards. (➔ ***Traceability to the National Standard***)
- their uncertainty of measurement must be known
- they must be marked with a clear identification
- the test must be documented

The ➔ ***DAkkS calibration*** fulfils all these requirements.

Conventional mass of weights

The problem is the air movement, which makes the weight appear lighter. In order to avoid this „distortion“ in daily use, all weights are adjusted to the unit specifications given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m^3, air density is 1.2 kg/m^3 and measuring temperature is 20°C.

Counting resolution

The counting resolution is calculated in points from the ratio of the weighing range [Max] divided by the smallest part weight. It is a statement of counting accuracy.

D

DAkkS = German accreditation authority

See product group 18 “Calibration service”

Data interface

To connect the balance to a printer, PC, network or a second balance. Typical interfaces are, for example, RS-232, RS-485, USB, Bluetooth, LAN, Digital I/O, DUAL, LAN etc. The interface parameters can be set using the balance. The interfaces available are stated in the model description.

Density determination

One of the main areas of application for laboratory balances is determining densities, e.g. determining the specific weight of liquids and solids. To do this you will need a highly accurate precision balance and a density set. It is particularly convenient if the balance can calculate and display the density right away. It has become apparent that by means of weigting when in the process of determining the density of liquids and solids according to the buoyancy method particularly accurate results can be obtained (Archimedes’ principle).

Density determination of liquids:

By means of measuring the buoyancy with a glass plummet immersed in the liquid to be measured

Density determination of solid bodies::

The density is the ratio of weight [g] : Volume [cm^3]. The weight is derived by weighing the sample in air. The volume is determined from the buoyancy A = weight loss in [g] of a sample, which is submerged in a liquid. The density D [g/cm^3] of this liquid must be known. The volume [cm^3] is a result of A : D.

Applications:
a) Pre-packaged goods control, whenever a product is sold according to its volume [cm^3]. This volume is calculated with weight [g] : density [g/cm^3].

b) Materials analysis

c) Density of porous materials

For a more detailed version of the glossary, please refer to the website.

DMS = Strain gauge

An electrical resistor strip that is glued to an elastic deforming body made of aluminium. As the strain gauge is mechanically deformed its resistance value changes, allowing the measured value to be calculated.

Draught shield

Required for balances with ➔ ***Readout*** d ≤ 1 mg, to avoid disturbing air movements.

Dual-range balance

As the load increases, the balance switches automatically to the next largest range, for both, weighing range [Max] as well as readout [d].

E

Error limit classes for test weights according to OIML R111

For further details, see product group 17 “Test weights”

F

FACTORY

These options can only be carried out at KERN factory.

FORCE = Electromagnetic force compensation

A counterforce is created by means of a coil in a permanent magnet. This counterforce is the same as the load of the weight being measured on the scale and therefore equalising. The measured value is calculated via the change in the coil current.

G

GLP = Good Laboratory Practice

➔ ***ISO/GLP***

Gravitational acceleration

➔ ***Gravitational force***

H

HACCP

= Hazard Analysis and Critical Control Points (HACCP)

The HACCP concept is a preventative system, which is designed to guarantee the safety of foodstuffs EC regulation 852/2004 mandates the use of the HACCP concept for all companies which are involved in production, processing and sales of foodstuffs.

I

ISO 9000ff/DIN EN ISO 9000ff

Quality Management System in the form of a DIN Norm for quality assurance in a factory.

ISO calibration/ISO certificate = factory calibration certificate

Testing measurement devices for accuracy in accordance with a procedure which is recognised, but not accredited.

ISO/GLP record keeping

Quality Assurance Systems demands record keeping of weighing results and correct adjusting of the balance, giving details of date, time and balance identification. The easiest way to obtain this documentation is by means of a connected printer.

J

Junction Box

For connection and simple corner adjustment of several load cells.

L

Linearity/precision

Greatest deviation of the weight displayed of a balance with regard to the value of the respective test weight in terms of plus and minus across the whole weighing range.

M

Minimum load [Min]

Lower limit of the verifiable weighing range. Is marked on the verification mark. The function of the balance is also given below the minimum load.

Minimum sample weight

Indicates the smallest weight which can be determined, depending on the process accuracy required.

N

Notified body

Neutral and independent, predominantly government bodies, which are formally appointed by the EC. They are engaged in the field of verification for conformity evaluations and type-approval test within the scope of type approvals.

O

Optimisation of reference weight (when piece counting)

See product group 08 “Counting balances/ Counting systems/Stocktaking scales”.

P

Percentage determination

Example: Reference weight prior to drying: 50g = balance display 100%. After drying 40g = balance display 80% absolute (dry mass) or 20% relative (humidity).

Permissible ambient temperature

Measurement errors are possible with readings on either side of the limits. With verified balances this is stated on the identification plate.

PLU (Price Look Up)

This refers to a data memory in price-computing retail scales for the base price of sales items.

PRE-TARE

Entering and saving a tare weight (e.g. container weight) through weighing or manual entry using the balance keypad before the actual weighing process. When you subsequently place the tare container on the balance, the balance will show zero immediately - saves time. Particularly useful e.g. for checking fill levels

Pre-packaging legislation (FPVO)

Ensures that pre-packed goods are filled correctly, for example, in food industry. The Weights and Measures Act governs the permissible weight tolerances.

Proof of compatibility

This documents the verification compatibility for combinations of weighing modules such as display devices, load cells and connecting elements.

R

Readout [d]

Smallest readable weight increment on a digital display.

Recalibration

periodic checking of the precision of measurement equipment/checking equipment (e.g. balances/weights) to control accuracy,
➔ ***Control of measurement equipment***

Reference weight (when piece counting)

See product group 08 “Counting balances/ Counting systems/Stocktaking scales”.

Reproducibility (standard deviation)

sequenced measure of conformity in repeated weighing (e.g. balances) subject to the same conditions. Mostly 1 **d** or less. Quality feature.

Resolution of a balance

The resolution is calculated from the weighing range [Max] divided by the readout [d], z. B. [Max] 420 g : [d] 0.001 g = 420,000 points. The resolution is a quality feature - the higher, the better.

S

SC-TECH = Single-Cell-Technology

➔ ***FORCE.*** The load cell consists of a single aluminium block, which gives a very high measurement quality.

Semi-micro balance

Analytical balance with a readout [d] = 0,01 mg

Smallest part weight when counting

The smallest piece weight, which a balance can accept for piece counting. For the relevant model, enter “g/piece” in the product data table.

T

Taring, automatic (PRE-TARE)

When the tare pan is put in place, the balance immediately displays zero.

Taring, subtractive

The available weighing range of a balance is reduced by the value of the tare load. Example: weighing range of a balance Max 6000g, Tare (= container) 470g, available weighing range 5530g.

Test weight, external (previously calibration weight)

for adjusting or checking the balance accuracy ➔ ***Adjusting the weighing range***. The external test weight can be DAkkS calibrated at any time, even afterwards, see product group 18 “Calibration Service”.

Test weight, internal

Like test weight external, but installed in the balance and powered.

T-FORK = Tuning fork principle

A resonating body (like a tuning fork) is electromagnetically excited, causing it to oscillate. The measured value is calculated via the change in frequency corresponding to the load of the weight being measured on the scale.

Totalising

Various individual weighings are added automatically to aggregate, e.g. all individual weighings of a batch.

Traceability to the National Standard

A pre-requisite for every perfect measurement is the validated comprehensive proof that the measuring equipment can be traced back to the international or national standards. In Germany the statutory binding standards are available from the PTB.

Type approval for balances

Strict process to test whether a balance fulfils the verification requirements. A balance can only be verified, if it has got a type approval from a notified body.

U

Uncertainty of measurement of a balance (= standard deviation)

Determined for each balance according to a precisely given test method and documented in the ➔ ***Calibration certificate***. It depends on various factors, both, internal and external. Uncertainty of measurement increases by a rising charge of the balance, see product group 18 “Calibration Service”

V

Verification

Verification, in accordance with the new terminology “Conformity assessment”. Only balances with ➔ ***EC type approval*** can be evaluated for conformity. These balances have an identification plate with the green ➔ **M**. Verification is stipulated by the state and serves as consumer protection.

According to the EU directive 2009/23/EG, balances must be verified if they are used as follows:

a) in commercial trade when the price of a commodity is determined by weighing.

b) in the manufacture of pharmaceuticals in pharmacies and analysis in pharmaceutical and medical laboratories.

c) for official purposes.

d) in the production of prepackaging.

e) in medical applications.

Every balance is tested by the metrological service and stamped with a verification mark. Its accuracy within the framework of permissible standard tolerances is thereby confirmed. EU verification applies to all member states of the EU.

Verification classes of balances

Class I – Analytical balance (precision balance),
Class II – precision balance,
Class III – industrial scale (commercial scale).

Verification of a balance with adjusting program CAL EXT

the adjusting program is sealed with an official mark after the verification. Thus the verification is only valid for the specific location of use.

➔ ***Gravitational force***

For the preparation of verification it is therefore necessary to advise the location of use and postcode.
See individual model details for the information as to whether verification can be carried out in the factory or at the location of use.

Verification of a balance with automatic internal adjusting CAL INT

the above restrictions in respect of the location of use do not apply, because the automatic internal adjusting works also after verification, therefore it is not sealed. In this case, verification does not depend on the location.

Verification validity for balances

Generally 2 years for all verification classes, for control balances generally 1 year, after expiry the balance has to be re-verified.

Verification value [e]

measure of the verification tolerance, depending on balance, mostly between 1 [d] and 10 [d]

➔ ***Readout***

W

Weighing range [Max]

is the working range of the balance. The balance can be loaded up to the specified upper limit.

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Sales conditions

All prices are valid as of January 1st 2016 until a new version of the KERN catalogue is released. In Europe, all prices do not include the applicable V.A.T.

At KERN there is no minimum order value. For orders less than € 15.00 there is no re-sale discount available. A minimum fee of € 15.00 (net) will be charged for orders less than € 15.00 (net).

Delivery Conditions: we supply ex works Balingen, e.g. the transport costs are invoiced. With our contract logistics partners we always offer you shipping at a good rate. When shipping to islands or other more distant areas, or areas which are difficult to access, the transport costs may possibly be higher, please ask for details. Any goods supplied remain KERN's property until complete payment for the goods sold has been received.

Delivery is usually via courier service.

When you see this symbol by truck, please ask for prices.

Extract from general terms and conditions:
Court of jurisdiction/Legal domicile: 72336 Balingen, Germany;
Commercial register N°: HRB 400865, AG Stuttgart;
Managing director: Albert Sauter, Martin Sauter.
For the full Terms and Conditions, please refer to the website.
www.kern-sohn.com/en/kern/agbs.html

Price changes and product changes are likely in individual cases, due to product modifications as well as error.

Sale or return: within 14 days of purchase. Not valid for order-specific adaptations such as special productions, cable extensions, special weights, etc. or test services such as calibration, verification, etc. Depending on the time and effort involved, there may be processing and storage costs, please ask for details.

Warranty: 3 years.
2 years for products with list price ≤ € 400.00
Does not apply to consumables such as batteries, rechargeable battery packs, etc.

Services

Free delivery: all orders from dealers via the KERN online shop with an order value over € 150.00 (list price) and parcel shipment, within the EU (except of MT, CY) with our parcel service (except pallet shipment) are delivered free of charge.

3 % web discount: Additional discount for dealer orders from the KERN online shop (only in combination with KERN e-invoice, please ask for details).

KERN DirectCash: The quick, secure COD procedure for protection against non-payment. With the KERN DirectCash COD system, you can safely deliver orders to end customers with unknown credit rating, with no risk of non-payment. Please request further details on this procedure.

Hire Purchase
Financing is available using KERN hire purchase - easy and convenient.

Hire Purchase gives you the option of purchasing any product from the range against a simple monthly installment. The product value is financed over the period of the agreement. On payment of the last installment, the ownership of the contract item automatically transfers from the contractor to the contractee.
The Hire Purchase Agreement can - if you so choose - be set for a period of between one and five years. This package includes the transfer of items as well as the guarantee for the entire transfer period.

Compared with buying the product, KERN hire purchase offers the advantage that the initial financial investment is largely unnecessary. This is particularly relevant when purchasing a number of products, for example when refitting a laboratory, a company department or a hospital ward. In addition the monthly installments constitute a direct cost and the item does not have to be capitalised by the purchaser.

After-Sales-Service

Repair service within 1 week at our plant in Balingen, transportation costs are additional. In urgent cases, if requested by customer, a replacement device will be provided until all repairs are completed; please ask.

Price reduction for a new device:
if repair costs exceed the current value of the defective device, a new device will be offered for a discount price. This offer is valid only up to 2 years after warranty expiration.

Spare parts service within 48 hours, transportation costs are additional.

Marketing support

KERN catalogues, brochures, branch prospectuses – your own personalised marketing tools
This catalogue and branch prospectuses are available free of charge. A neutral version of the catalogue, without the KERN address imprint, is also available free of charge for your marketing activities (200 pcs.), larger quantities on request.

On demand, your company logo and address can be printed on the back of the KERN catalogue free of charge (200 pcs.), larger quantities on request. In this way you have got your own individual marketing tool.
The KERN catalogue and branch prospectuses are available in the following languages: DE, GB, FR, IT, ES.
For further details, see page 2.

Important notice

Explosion hazard or humidity
With the exception of the specially labelled models (ATEX), our balances are not suitable for rooms with a risk of explosion. Our models are also not suitable for rooms with a high level of air humidity (condensing). Please observe the applicable electrical regulations.

Earth's gravitational force
Electronic balances are subject to location regulations due to the earth's gravitational force. If location of use is changed, reverification and recalibration of the electronic balance is needed.
See the glossary, page 215 ➔ ***Adjusting***

KERN Pictograms

Internal adjusting:
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).

Adjusting program CAL:
For quick setting up of the balance's accuracy. External adjusting weight required.

Memory:
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.

Alibi memory:
Electronic archiving of weighing results, complying with the 2009/23/EC standard. For details see page 214

Data interface RS-232:
To connect the balance to a printer, PC or network.

RS-485 data interface:
To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.

USB data interface:
To connect the balance to a printer, PC or other peripherals.

Bluetooth* data interface:
To transfer data from the balance to a printer, PC or other peripherals.

WLAN data interface:
To transfer data from the balance to a printer, PC or other peripherals.

Control outputs (optocoupler, digital I/O):
To connect relays, signal lamps, valves, etc.

Interface for second balance:
For direct connection of a second balance.

Network interface:
For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter. See page 180

Wireless data transfer:
between the weighing unit and the evaluation unit using an integrated radio module.

GLP/ISO log:
The balance displays the weight, date and time, regardless of a printer connection.

GLP/ISO log:
With weight, date and time. Only with KERN printers, see “Accessories”, see page 177.

Piece counting:
Reference quantities selectable. Display can be switched from piece to weight.

Recipe level A:
Separate memory for the weight of the tare container and the recipe ingredients (net total).

Recipe level B:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.

Recipe level C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode.

Totalising level A:
The weights of similar items can be added together and the total can be printed out.

Totalising level C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.

Percentage determination:
Determining the deviation in % from the target value (100 %).

Weighing units:
Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details.

Weighing with tolerance range:
Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning

Hold function:
(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram. For details see the glossary. See page 72.

ATEX explosion protection:
Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.

Stainless steel:
The balance is protected against corrosion.

Suspended weighing:
Load support with hook on the underside of the balance.

Battery operation:
Ready for battery operation. The battery type is specified for each device.

Rechargeable battery pack:
Rechargeable set.

Universal mains adapter: with universal input and optional input socket adapters for
A) EU, GB
B) EU, GB, USA
C) EU, GB, USA, AUS

Mains adapter:
230V/50Hz in standard version for EU. On request GB, USA or AUS version available.

Power supply:
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.

Weighing principle: Strain gauges
Electrical resistor on an elastic deforming body.

Weighing principle: Tuning fork
A resonating body is electromagnetically excited, causing it to oscillate.

Weighing principle: Electromagnetic force compensation
Coil inside a permanent magnet. For the most accurate weighings.

Weighing principle: Single cell technology
Advanced version of the force compensation principle with the highest level of precision.

Verification possible:
The time required for verification is specified in the pictogram.

DAkkS calibration possible (DKD):
The time required for DAkkS calibration is shown in days in the pictogram.

Package shipment:
The time required for internal shipping preparations is shown in days in the pictogram.

Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram.

Warranty:
The warranty period is shown in the pictogram.

*The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license. Other trademarks and trade names are those of their respective owners.

KERN – measuring technology and testing services from a single source

Balances & Test service catalogue

Provides a complete overview of the KERN line of balances, test weights, and services, services such as verification, calibration, etc.

Medical scales catalogue

Complete line of medical scales, from infant scales to patient scales, chair scales and adiposity scales, as well as hand grip dynamometres, chemist’s balances, and veterinary scales.

Microscopes & refractometers catalogue

Extensive range in the area of optical instruments, such as, for example, biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers.

SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness and calibration service.

KERN DAkkS calibration service brochure

Detailed information on topics pertaining to the calibration and verification of balances, test weights, and force measuring devices.

KERN flyer Special offers

Compact overview of our bestselling products – just the balances/measuring instruments/microscopes your customers need! Can be customised to suit your requirements.

The gnome guide

Travel report from KERN, the famous scientific gnome, who travelled all over the world, in order to illustrate the physical law of gravitational force. Ideal for use in school education – please request, it’s free of charge.

170 years of KERN

Interesting and readable overview of the history of the origins of Southern German balance manufacturing, as well as the company history, which stretches right back to 1770 – please request, it’s free of charge.

Your advantages

1 Quick Delivery
Items in stock are sent the same day if orders are placed before 1:00 pm (valid for parcel service delivery within the EC).

2 Price performance ratio
KERN scales are always an inexpensive alternative. They are durable, uncomplicated and easy to place into operation.

3 Direct dispatch
of ordered goods to your customer is available, with personalised delivery note if desired (please ask), invoice will be issued to you (third party business).

4 3 years warranty
Items under € 400,– : 2 years

5 No stock-keeping necessary.
KERN does the warehousing for you.

6 Sale or return
within 14 days of purchase.

Tradition and innovation for more than 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.

▸ 1844
KERN is founded – precision balances are produced

▸ 1863
A proud Gottlieb Kern with his staff

▸ 1880
Pharmaceutical balance with Aesculap

▸ 1923
Inflation – KERN wages are paid with self printed currency

▸ 1980
The electronic balance ousts mechanical devices

▸ 1994
Accredited DKD laboratory (ISO 17025)

▸ 2000
New premises in Balingen

▸ 2002
Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards

▸ 2007
Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)

▸ 2008
Authorisation for initial verification by the manufacturer (2009/23/EC)

▸ 2009
Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)

▸ 2012
Verification point for non-automatic balances and test weights.

New customer portal www.kern-sohn.com goes live

▸ 2014
Expansion of the product range to include optical instruments (microscopes and refractometers)

▸ 2015
Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse

Our Tip

Come to see the Museum of scale and weight ...

How a scale learned to weigh! Come and experience KERN history in the Zollernschloss at Balingen ...

www.balingen.de
→ “Kultur”