KERN

GB

GB

BALANCES & TEST SERVICE
for laboratory, industry and food

KERN – Tradition and Innovation for over 170 years

An independent family business, KERN since already 6 generations is synonymous with quality and reliability in customer service.

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

Online-Shop
www.kern-sohn.com

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

Service hotline
+49 [0] 7433 9933-199

E-mail order
info@kern-sohn.com

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

Calibration hotline
+49 [0] 7433 9933-196

Fax Order
+49 [0] 7433 9933-146

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

0,73152 g

PROFESSIONAL MEASURING

2015

2015

0.00000

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:

Quick-Finder

KERN Models A – Z

CAL INT   CAL EXT   MEMORY

For explanations on the pictograms, see the front flap

Product group index 2015

Do you have questions about our products?
Our customer consultants will be pleased to assist you:

UK, IE

Marietta Diener
Tel. +49 [0] 7433 9933 – 167
Fax +49 [0] 7433 9933 – 29167
Mobil +49 [0] 151 46143236
diener@kern-sohn.com

USA, CAN, TR, Middle East, Africa, Oceania

Tobias Baiker
Tel. +49 [0] 7433 9933 – 118
Fax +49 [0] 7433 9933 – 29118
tobias.baiker@kern-sohn.com

MT, Scandinavia

Tanja Jetter
Tel. +49 [0] 7433 9933 – 168
Fax +49 [0] 7433 9933 – 29168
Mobil +49 [0] 151 64936859
tanja.jetter@kern-sohn.com

South East Asia

Corinna Klaass
Tel. +49 [0] 7433 9933 – 215
Fax +49 [0] 7433 9933 – 29215
corinna.klaass@kern-sohn.com

RO, CZ, SK, HU, DE (Zip Code 4, 5)

Katharina Queitsch
Tel. +49 [0] 7433 9933 – 218
Fax +49 [0] 7433 9933 – 29218
Mobil +49 [0] 151 46142894
katharina.queitsch@kern-sohn.com

PT, SLO, HR, BA, RS, MK, BE, LUX

Taras Mikitisin
Tel. +49 [0] 7433 9933 – 143
Fax +49 [0] 7433 9933 – 29143
Mobil +49 [0] 171 5590115
mikitisin@kern-sohn.com

NL, DE (Zip Code 3, 6)

Nadine Wenzler
Tel. +49 [0] 7433 9933 – 205
Fax +49 [0] 7433 9933 – 29205
Mobil +49 [0] 171 3059946
nadine.wenzler@kern-sohn.com

Baltic States, PL, BG, GUS, DE (Zip Code 0, 1, 2)

Julia Hering
Tel. +49 [0] 7433 9933 – 141
Fax +49 [0] 7433 9933 – 29141
Mobil +49 [0] 171 3059661
hering@kern-sohn.com

General Management

Albert Sauter
Tel. +49 [0] 7433 9933 – 157
Fax +49 [0] 7433 9933 – 29157
albert-sauter@kern-sohn.com

Sales Management

Ulrich Ulmer
Tel. +49 [0] 7433 9933 – 160
Fax +49 [0] 7433 9933 – 29160
Mobil +49 [0] 172 7423944
ulmer@kern-sohn.com

Marketing Management

Thomas Fimpel
Tel. +49 [0] 7433 9933 – 130
Fax +49 [0] 7433 9933 – 29130
fimpel@kern-sohn.com

Technical Service

Markus Reinke
Tel. +49 [0] 7433 9933 – 199
Fax +49 [0] 7433 9933 – 195
reinke@kern-sohn.com

Heiko Taufenbach
Tel. +49 [0] 7433 9933 – 199
Fax +49 [0] 7433 9933 – 195
taufenbach@kern-sohn.com

Edgar Litti
Tel. +49 [0] 7433 9933 – 191
Fax +49 [0] 7433 9933 – 195
litti@kern-sohn.com

DAkkS Calibration Service

GB, IE, BeNeLux, FR, North, Central & South America, Maghreb, Africa, DE (Zip Code 8, 9)
Tanja Fischer
Tel. +49 [0] 7433 9933 – 123
Fax +49 [0] 7433 9933 – 29123
tanja.fischer@kern-sohn.com

Scandinavia, Oceania, Australia, ES, PT, IT, DE (Zip Code 5, 6, 7)
Sandra Ehinger
Tel. +49 [0] 7433 9933 – 162
Fax +49 [0] 7433 9933 – 29162
sandra.ehinger@kern-sohn.com

GR, TR, Eastern Europe, Baltic States, CIS, South East Asia, AT, CH, DE (Zip Code 0, 1, 2, 3, 4)
Waldemar Fleitling
Tel. +49 [0] 7433 9933 – 163
Fax +49 [0] 7433 9933 – 29163
fleitling@kern-sohn.com

Accountancy

Jutta Osswald
Tel. +49 [0] 7433 9933 – 159
Fax +49 [0] 7433 9933 – 149
jutta.osswald@kern-sohn.com

We also have lots of new models in our range for 2015.
Innovative products in the usual KERN quality:

Bench scale with IP rating WTB-M

Ideal in the food industry, thanks to its IP65 rating and special checkweighing display, now with EC type approval [M]

from € 235,-
Further details ➜ page 70

Bench scale with IP rating FXN

Robust, space-saving bench scale, protected through stainless steel and IP68

only € 320,-
Further details ➜ page 74

Platform scale SXS

Stainless steel platform scale with protection against dust and water splashes IP68 and EC type approval [M]

from € 630,-
Further details ➜ page 76

ATEX scales IEX / OEX

Robust platform scale with ATEX approval for use in potentially explosive atmospheres

from € 2150,-
Further details ➜ page 78 / 79

Bottle stocktaking scale SMT

Innovative stocktaking scale with touchscreen to efficiently measure the residual amount of a beverage in a bottle and transfer the information to the PC

only € 950,-
Further details ➜ page 89

Stocktaking counting system FKC

Innovative touchscreen stocktaking scale to measure large numbers of articles and transfer these to the PC – now also as a high-resolution counting system!

from € 1260,-
Further details ➜ page 99

Floor scale BXS

IP67 floor scale with IP68 stainless steel display device and EC type approval [M], detachable weighing plate
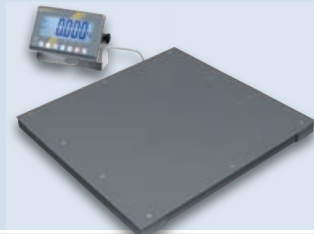
from € 1350,-
Further details ➜ page 128

Floor scale BAN

Stainless steel floor scale with dust and spray protection (IP68), extra large platform and EC type approval [M]
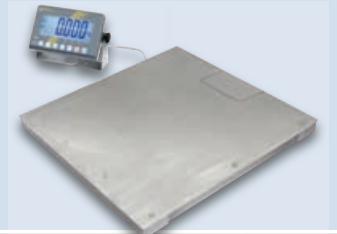
from € 2790,-
Further details ➜ page 128

Floor scale BBN

State-of-the-art premium floor scale with touchscreen, made of stainless steel with the complete range of functions for demanding processes
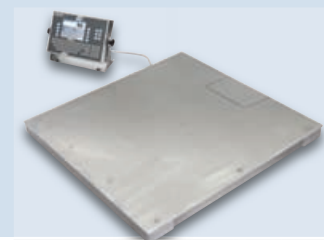
from € 4740,-
Further details ➜ page 128

Axle load scale VHP

Modular axle load scale for the mobile monitoring of vehicles up to 15 tons

only € 7150,-
Further details ➜ page 130/131

Crane scales HFA / HFC

Compact crane scales (tensile force measurement device) for use in harsh environmental conditions, available with integrated display or a hand-held terminal

from € 590,-
Further details ➜ page 151/152

Crane scale HTS

Robust industrial crane scale up to 10 tons and EC type approval [M]

from € 1070,-
Further details ➜ page 154

All prices listed here are without german legal VAT (19 %)   5

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

• Space-saving for high-tech laboratories,
• With XL weighing plate for large containers,
• With removable display so that the balance can be used under exhaust hoods or in glove bags
• As a separate display device allowing you to build your own weighing systems

... you do always find the right model with KERN.

KERN – Weighing can be this simple.

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

**Precision balance
KERN PET**
For all details see
page 40 / 41

**Display device
KERN KET-TM**
For all details see
page 137

**Platform scale
KERN ILT**
For all details see
page 116 / 117

**Display device
KERN KEN-TM**
For all details see
page 137

Your KERN product specialist will be happy to help:

Ingo Schlaich
Product specialist
Touchscreen balances

Tel.   +49 [0] 7433 9933 - 158
Fax   +49 [0] 7433 9933 - 149
ingo.schlaich@kern-sohn.com

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

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!

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

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

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.

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.

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)

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

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

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

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

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

Alibi memory
Paperless archiving of weighing results, see also page 11

Enormous database (1 GB)
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

Pocket balances

TEE	9
Designer pocket balance	
TCB	9
This is where the fun starts with pocket size weighing	
CM	9
Pocket balance with integrated calculator	
CM-C	9
Compact pocket balance with carat display – ideal for jewellers	
TAB	9
High-precision pocket carat balance for jewellers and travelling salesmen	

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 convenient 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.

Of course, all KERN pocket balances can also be calibrated and delivered with a DAkkS calibration certificate (optional). This ensures the high level of accuracy of your balance.

Your KERN product specialist will be happy to help:

Katharina Queitsch
Product specialist Pocket balances

Tel.   +49 [0] 7433 9933-218
Fax   +49 [0] 7433 9933-29218
katharina.queitsch@kern-sohn.com

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,-	9	1	●	●
0,01 ct	50 ct	CM 50-C2N ◈	90,-	9	1	●	●
0,01 g	60 g	CM 60-2N	79,-	9	1	●	●
0,1 g	150 g	TEE 150-1	38,-	9	1	●	●
0,1 g	150 g	CM 150-1N	50,-	9	1	●	●
0,1 g	200 g	TCB 200-1	52,-	9	1	●	●
0,1 g	320 g	CM 320-1N	55,-	9	1	●	●
1 g	1000 g	CM 1K1N	50,-	9	1	●	●

◈ = Carat balances   ● = Standard   ○ = Option

Pocket balances KERN TEE · TCB · CM · CM-C · TAB

KERN TEE

Designer pocket balance

KERN TCB

This is where the fun starts with pocket size weighing

1 KERN CM

Pocket balance with integrated calculator (CM) or carat display (CM-C) – ideal for jewellers

KERN TAB

High-precision pocket carat balance for jewellers and travelling salesmen

STANDARD
| CAL EXT | UNIT | BATT | 1 DAY |

STANDARD / OPTION
2 YEARS WARRANTY | DAkkS +3 DAYS

STANDARD
| CAL EXT | UNIT | BATT | 1 DAY |

STANDARD / OPTION
2 YEARS WARRANTY | DAkkS +3 DAYS

STANDARD
| CAL EXT | UNIT | BATT | 1 DAY |

STANDARD / OPTION
2 YEARS WARRANTY | DAkkS +3 DAYS

STANDARD
| CAL EXT | UNIT | BATT | 1 DAY |

STANDARD / OPTION
2 YEARS WARRANTY | DAkkS +3 DAYS
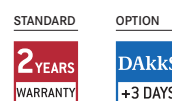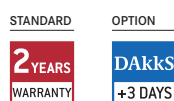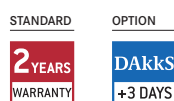
- **Simple and convenient 2-key operation**
- **Cover made of shock proof plastic** as protection against pressure and dust. Can also be used as a tare container
- **Note: Upon request available with your logo printed on it,** min. 100 pcs. Please ask for details

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

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

1 **CM:**
- **Integrated calculator**

2 **CM-C:**
- **Adjusting weight standard**
- **Draft shield** against air movements standard
- **Weighing pan standard**

- **Simple and convenient 4-key operation**
- **Quickly changing weighing units at the touch of a key, from g to ct to gn**
- **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 ranges [Max]	150 g	200 g	60 g	150 g	320 g	1000 g	10 g | 50 ct	20 g | 100 ct
Readout [d]	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	70x80 mm				40x50 mm	36x42 mm
Overall dimensions WxDxH	67x100x22 mm	ØxH 80x14 mm	85x130x25 mm					95x133x33 mm
Power supply	Batteries included, 2 x 1,5 V AAA	Batteries included, 2 x LR 44 AUTO-OFF function to preserve the battery, can be switched off	Batteries included, 2 x 1,5 V AAA AUTO-OFF function to preserve the battery, can be switched off					Batteries included, 4 x 1,5 V AAA Operating time approx. 150 h
Net weight	100 g	50 g	180 g				200 g	
Permissible ambient temperature	5 °C / 35 °C							10 °C / 30 °C
Price €, excl. VAT, ex works	38,-	52,-	79,-	50,-	55,-	50,-	90,-	70,-
Option DAkkS Calibr. Certificate	963-127, **65,-**							

Precision balances

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 191 – 192*

Your KERN product specialist will be happy to help:

Bettina Hampe
Product specialist Precision balances

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

Interesting facts about density determination

One of the main areas of application for laboratory balances is determining densities, i.e. 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 matter:

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:

• 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].

• Materials analysis

• Density of porous materials

You can find examples of balances for density determination on pages 16 (EMB-V), 23 (PLE-N), 29 (PLJ-C / PLJ-G), 30 / 31 (PKT), 32 / 33 (PLS / PLJ), 37 (PLT), 38 / 39 (PBS / PBJ), 45 (ABS-N / ABJ-NM), 112 (DS), 114 / 115 (IKT)

Interesting facts about alibi memory

In commercial trade, measuring results must be determined by verified measuring devices and need to be be correct. It is standard practise in almost every company today data which is recorded by measuring devices to then further process this data by peripherals, mostly being commercially available PCs.

In accordance with verification regulations, peripheral devices are treated the same as measuring devices. The Weights and Measures Act and Verification Ordinance take this situation into account and stipulate certain requirements for PCs and programmes used in commercial trade.

Where a balance is to be used for purposes for which verification is mandatory, a connected PC may only be used not verified to further process these measuring results, e.g. to produce business documents, if

• the balance or a verified peripheral device which belongs to the balance is going to record or store the measuring results in an unalterable and permanent form,

• these values are accessible to both the parties concerned with the measurement.

This exception from obligatory verification does not apply to balances which are used for direct sale to the public. For these applications, displays and printers must be verified, even if a verified data memory is available.

The above-mentioned peripheral device for recording or storing measuring results refers to verified alibi printers or verified data memories (alibi memory). If these are not connected, then for the whole system (consisting of a balance, PC and program) a type approval is required issued by the PTB (German Weights and Measures authority).

You will find balances with alibi memories on pages 29 (PLJ-C / PLJ-G), 40 / 41 (PET), 47 (AES-C / AEJ-CM), 50 / 51 (AET), 113 (ILS-C / ILJ-C), 116 / 117 (ILT)

Source: Verification office, Baden-Württemberg, see also normative 2009/23/EC.

Quick-Finder Precision balances

02

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
0,001 g	60 g	440-21A	350,-	21	1			●		●		●		O	O
0,001 g	100 g	EMB 100-3	195,-	15	1			●						O	
0,001 g	100 g	PCB 100-3	255,-	18	1			●		●		●		O	O
0,001 g	120 g	PFB 120-3	270,-	22	1			●		●		●			
0,001 g	120 g	KB 120-3N	370,-	26	1			●		●		●			O
0,001 g	200 g	EMB 200-3	210,-	15	1			●						●	
0,001 g	200 g	EMB 200-3V	250,-	16	1			●		●				●	
0,001 g	200 g	PFB 200-3	280,-	22	1			●		●		●			
0,001 g	200 g	PKS 200-3	420,-	24	1		●	●		●		●	●		O
0,001 g	220 g	EW 220-3NM	620,-	34	1			●		●		●	●		O
0,001 g	220 g	EG 220-3NM	750,-	34	1	O	●			●		●	●		O
0,001 g	240 g	KB 240-3N	280,-	26	1			●		●		●			O
0,001 g	240 g	572-30	520,-	28	1			●		●		●			O
0,001 g	250 g	PCB 250-3	290,-	18	1			●		●		●		O	O
0,001 g	250 g	PCD 250-3	320,-	20	1			●		●		●		O	O
0,001 g	300 g	EMS 300-3	260,-	17	1			●				●		O	
0,001 g	300 g	PFB 300-3	305,-	22	1			●		●		●			
0,001 g	300 g	EWJ 300-3	440,-	27	1		●			●		●			O
0,001 g	300 g	572-31	520,-	28	1			●		●		●			O
0,001 g	300 g	PKT 300-3	740,-	30	1			●	●	●		●	●		
0,001 g	350 g	PCB 350-3	300,-	18	1			●		●		●		O	O
0,001 g	360 g	PKS 360-3	430,-	24	1			●		●		●	●		O
0,001 g	360 g	KB 360-3N	300,-	26	1			●		●		●			O
0,001 g	360 g	PLJ 300-3CM	680,-	29	1	O	●			●		●	●		
0,001 g	420 g	PLE 420-3N	410,-	23	1			●		●		●	●		O
0,001 g	420 g	572-32	540,-	28	1			●		●		●	●		O
0,001 g	420 g	PKT 420-3	770,-	30	1			●	●	●		●	●		O
0,001 g	420 g	PLS 420-3F	530,-	32	1			●		●		●	●		
0,001 g	420 g	PLJ 420-3F	550,-	32	1		●			●		●	●		
0,001 g	420 g	EW 420-3NM	690,-	34	1			●		●		●	●		O
0,001 g	420 g	EG 420-3NM	830,-	34	1	O	●			●		●	●		O
0,001 g	420 g	PLT 420-3F	750,-	37	1		●		●	●		●	●		
0,001 g	600 g	PLJ 600-3CM	690,-	29	1	O	●			●		●	●		
0,001 g	600 g	PET 600-3M	2500,-	40	1	O	●		●	●	●	●	●		
0,001 g	620 g	EW 620-3NM	770,-	34	1			●		●		●	●		O
0,001 g	620 g	EG 620-3NM	930,-	34	1	O	●			●		●	●		O
0,001 g	620 g	PBS 620-3M	1220,-	38	1			●		●		●	●		
0,001 g	620 g	PES 620-3M	1280,-	36	1			●		●		●	●		O
0,001 g	620 g	PBJ 620-3M	1420,-	38	1	O	●			●		●	●		
0,001 g	620 g	PEJ 620-3M	1480,-	36	1	O	●			●		●	●		
0,001 g	720 g	PLJ 720-3A	790,-	32	1		●			●		●	●		
0,001 g	720 g	PLS 720-3A	850,-	32	1			●		●		●	●		
0,001 g	720 g	PLJ 720-3AM	930,-	32	1	O	●			●		●	●		
0,001 g	720 g	PLT 720-3A	990,-	37	1		●		●	●		●	●		
0,001 g	750 g	PLJ 700-3CM	700,-	29	1	O	●		●	●		●	●		
0,001 g	1000 g	PET 1000-3M	2800,-	40	1	O	●		●	●	●	●	●		
0,001 g	1200 g	PLS 1200-3A	860,-	32	1			●		●		●	●		
0,001 g	1200 g	PLJ 1200-3A	1100,-	32	1		●			●		●	●		
0,001 g	1200 g	PLT 1200-3A	1230,-	37	1		●		●	●		●	●		
0,01 g	200 g	EMB 200-2	115,-	15	1			●						●	
0,01 g	200 g	PCB 200-2	215,-	18	1			●		●		●		O	O
0,01 g	200 g	440-33N	290,-	21	1			●		●		●		O	O
0,01 g	400 g	440-35N	330,-	21	1			●		●		●		O	O
0,01 g	600 g	EMB 600-2	155,-	15	1			●						●	
0,01 g	600 g	440-35A	365,-	21	1			●		●		●		O	O
0,01 g	600 g	PFB 600-2M	250,-	22	1	O		●		●		●			
0,01 g	600 g	EWJ 600-2M	375,-	27	1	O	●			●		●			
0,01 g	600 g	PLJ 600-2GM	510,-	29	1	O	●			●		●	●		●
0,01 g	650 g	KB 650-2NM	320,-	26	1	O		●		●		●			
0,01 g	650 g	573-34NM	550,-	28	1	O		●		●		●			
0,01 g	650 g	KBJ 650-2NM	690,-	26	1	O	●			●		●			O
0,01 g	820 g	EW 820-2NM	540,-	34	1			●		●		●	●		O
0,01 g	1000 g	EMB 1000-2	190,-	15	1			●						●	
0,01 g	1000 g	PCB 1000-2	245,-	18	1			●		●		●		O	O
0,01 g	1200 g	PFB 1200-2	235,-	22	1			●		●		●			
0,01 g	1200 g	KB 1200-2N	260,-	26	1			●		●		●			O
0,01 g	1600 g	572-33	480,-	28	1			●		●		●			O
0,01 g	2000 g	EMB 2000-2	205,-	15	1			●						●	
0,01 g	2000 g	EMB 2000-2V	250,-	16	1			●		●				●	
0,01 g	2000 g	PFB 2000-2	245,-	22	1			●		●		●			
0,01 g	2000 g	PKS 2000-2	430,-	24	1			●	●	●		●	●		O

● = Standard   O = Option

12   Precision balances

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
0,01 g	2000 g	KB 2000-2N	270,-	26	1			●		●		●			○
0,01 g	2200 g	EW 2200-2NM	660,-	34	1			●		●		●	●		
0,01 g	2200 g	EG 2200-2NM	820,-	34	1	○	●			●		●	●		
0,01 g	2200 g	PES 2200-2M	830,-	36	1			●		●		●	●		
0,01 g	2200 g	PEJ 2200-2M	1040,-	36	1	○	●			●		●	●		
0,01 g	2400 g	KB 2400-2N	280,-	26	1			●		●		●			○
0,01 g	2400 g	572-35	490,-	28	1			●		●		●			○
0,01 g	2500 g	PCB 2500-2	290,-	18	1			●		●		●		○	○
0,01 g	2500 g	PCD 2500-2	305,-	20	1			●		●		●		○	○
0,01 g	2500 g	PET 2500-2M	2400,-	40	1	○	●		●	●	●	●	●		
0,01 g	3000 g	EMS 3000-2	240,-	17	1			●		●		●		○	
0,01 g	3000 g	PFB 3000-2	270,-	22	1			●		●		●			
0,01 g	3000 g	EWJ 3000-2	420,-	27	1		●			●		●			○
0,01 g	3000 g	572-37	490,-	28	1			●		●		●			○
0,01 g	3000 g	PKT 3000-2	740,-	30	1			●	●	●		●	●		○
0,01 g	3500 g	PCB 3500-2	300,-	18	1			●		●		●		○	○
0,01 g	3500 g	PLJ 3000-2CM	680,-	29	1	○	●		●	●		●	●		
0,01 g	3600 g	PKS 3600-2	440,-	24	1			●	●	●		●	●		
0,01 g	3600 g	KB 3600-2N	290,-	26	1			●		●		●			○
0,01 g	4200 g	PLE 4200-2N	410,-	23	1			●		●		●			○
0,01 g	4200 g	572-39	520,-	28	1			●		●		●			○
0,01 g	4200 g	PKT 4200-2	770,-	30	1			●		●		●	●		○
0,01 g	4200 g	PLS 4200-2F	530,-	32	1			●		●		●	●		
0,01 g	4200 g	PLJ 4200-2F	550,-	32	1		●			●		●	●		
0,01 g	4200 g	EW 4200-2NM	740,-	34	1			●		●		●	●		○
0,01 g	4200 g	EG 4200-2NM	880,-	34	1	○	●			●		●	●		○
0,01 g	4200 g	PES 4200-2M	980,-	36	1			●		●		●	●		○
0,01 g	4200 g	PEJ 4200-2M	1190,-	36	1	○	●			●		●	●		
0,01 g	4200 g	PLT 4200-2F	750,-	37	1		●		●	●		●	●		
0,01 g	4200 g	PBS 4200-2M	1040,-	38	1			●		●		●	●		
0,01 g	4200 g	PBJ 4200-2M	1260,-	38	1	○	●			●		●	●		
0,01 g	6000 g	PET 6000-2M	2600,-	40	1	○	●		●	●	●	●	●		
0,01 g	6200 g	EW 6200-2NM	810,-	34	1			●		●		●	●		○
0,01 g	6200 g	PLS 6200-2A	850,-	32	1			●		●		●	●		
0,01 g	6200 g	PLJ 6200-2A	790,-	32	1		●			●		●	●		
0,01 g	6200 g	PLT 6200-2A	990,-	37	1		●		●	●		●	●		
0,01 g	6200 g	PLJ 6200-2AM	1020,-	32	1	○	●			●		●	●		
0,01 g	6200 g	PES 6200-2M	1210,-	36	1			●		●		●	●		○
0,01 g	6200 g	PBS 6200-2M	1230,-	38	1			●		●		●	●		
0,01 g	6200 g	PBJ 6200-2M	1530,-	38	1	○	●			●		●	●		
0,01 g	8200 g	PLS 8000-2A	1020,-	32	1			●		●		●	●		
0,05 g	6 kg	PFB 6K0.05	235,-	22	1			●		●		●			
0,05 g	10 kg	KB 10K0.05N	280,-	26	1			●		●		●			○
0,05 g	12 kg	572-45	490,-	28	1			●		●		●			○
0,05 g	12 kg	PKT 12K0.05	630,-	30	1			●	●	●		●	●		○
0,05 g	20 kg	572-55	520,-	28	1			●		●		●			○
0,1 g	400 g	440-43N	185,-	21	1			●		●		●		○	○
0,1 g	500 g	EMB 500-1	55,-	15	1			●						●	
0,1 g	600 g	PFB 600-1M	320,-	22	1	○		●		●		●			
0,1 g	1000 g	PCB 1000-1	180,-	18	1			●		●		●		○	○
0,1 g	1000 g	440-45N	245,-	21	1			●		●		●		○	○
0,1 g	1200 g	EMB 1200-1	75,-	15	1			●						●	
0,1 g	2000 g	PCB 2000-1	200,-	18	1			●		●		●		○	○
0,1 g	2000 g	440-47N	270,-	21	1			●		●		●		○	○
0,1 g	3000 g	EMB 3000-1	120,-	15	1			●						●	
0,1 g	4000 g	440-49N	330,-	21	1			●		●		●		○	○
0,1 g	6000 g	EMB 6000-1	155,-	15	1			●						●	
0,1 g	6000 g	EMS 6K0.1	155,-	17	1			●				●		○	
0,1 g	6000 g	PCB 6000-1	225,-	18	1			●		●		●		○	○
0,1 g	6000 g	440-49A	365,-	21	1			●		●		●		○	○
0,1 g	6000 g	PFB 6000-1	215,-	22	1			●		●		●			
0,1 g	6000 g	PFB 6000-1M	250,-	22	1	○		●		●		●			
0,1 g	6000 g	EWJ 6000-1M	375,-	27	1	○	●			●		●			○
0,1 g	6000 g	PLJ 6000-1GM	510,-	29	1	○	●			●		●	●		●
0,1 g	6500 g	KB 6500-1NM	320,-	26	1	○		●		●		●			○
0,1 g	6500 g	573-46NM	550,-	28	1	○		●		●		●			
0,1 g	8200 g	PBS 8200-1M	590,-	38	1	○		●		●		●	●		
0,1 g	8200 g	PBJ 8200-1M	1250,-	38	1	○	●			●		●	●		
0,1 g	10 kg	PCB 10000-1	240,-	18	1			●		●		●		○	○
0,1 g	10 kg	PCD 10K0.1	235,-	20	1			●		●		●		○	○
0,1 g	10 kg	PKS 10K0.1	400,-	24	1			●	●	●		●	●		○

● = 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
0,1 g	10 kg	KB 10000-1N	260,-	26	1			●		●		●			○
0,1 g	10 kg	572-43	480,-	28	1			●		●		●			○
0,1 g	12 kg	EMS 12K0.1	190,-	17	1			●				●		○	
0,1 g	12 kg	EW 12000-1NM	630,-	34	1			●		●		●	●		○
0,1 g	15 kg	PES 15000-1M	1190,-	36	1			●		●		●	●		○
0,1 g	16 kg	572-49	480,-	28	1			●		●		●			○
0,1 g	16 kg	PKT 16K0.1	630,-	30	1		●	●		●		●	●		○
0,1 g	20 kg	PLS 20000-1F	570,-	32	1			●		●		●	●		
0,1 g	24 kg	572-57	490,-	28	1			●		●		●			○
0,1 g	24 kg	PKT 24K0.1	650,-	30	1		●	●		●		●	●		○
0,1 g	31 kg	PES 31000-1M	1890,-	36	1			●		●		●	●		○
1 g	2200 g	EMB 2200-0	55,-	15	1			●						●	
1 g	4000 g	440-51N	160,-	21	1			●		●		●		○	○
1 g	5200 g	EMB 5.2K1	55,-	15	1			●						●	
1 g	6000 g	EMS 6K1	65,-	17	1			●				●		○	
1 g	6000 g	PCB 6000-0	120,-	18	1			●		●		●		○	○
1 g	6000 g	PFB 6000-0M	315,-	22	1	○		●		●		●			
1 g	6000 g	440-53N	180,-	21	1			●		●		●		○	○
1 g	12 kg	EMS 12K1	95,-	17	1			●				●		○	
5 g	5200 g	EMB 5.2K5	50,-	15	1			●						●	

● = Standard   ○ = Option

For an explanation on the pictos, see the front flap

Precision 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**
- **Secure and non-slip positioning** with rubber feet
- **Ready for use:** Batteries included. AUTO-OFF function to preserve the batteries, can be switched off
- ▪1 **Ring-shaped draught shield** standard, only for models with weighing plate size Ⓐ, weighing space ØxH 96x35 mm
- **Hook for underfloor weighing** standard

Technical data

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

Accessories

- ▪1 **Ring-shaped draught shield** standard, only for models with weighing plate size Ⓐ, weighing space ØxH 90x40 mm, can be retrofitted, KERN EMB-A01, **€ 20,-**
- ▪2 **Stainless steel weighing plate**, only for models with weighing plate size Ⓑ, KERN EMB-A02, **€ 26,-**
- ▪3 **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, **€ 60,-** 170x240x53 mm: KERN EMB-A09, **€ 60,-**
- **Mains adapter external** not included, can be retrofitted, KERN 440-902, **€ 25,-**

STANDARD

| CAL EXT | UNDER | BATT | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| 230 V | DAkkS +3 DAYS |

Model KERN	Weighing range [Max] g	Readout [d] g	Repro-ducibility g	Linearity g	Dimensions housing WxDxH mm	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
								DAkkS KERN	€
EMB 100-3	100	0,001	0,001	± 0,005	170x240x53	Ⓐ	195,-	963-127	72,-
EMB 200-3	200	0,001	0,001	± 0,005	170x240x53	Ⓐ	210,-	963-127	72,-
EMB 200-2	200	0,01	0,01	± 0,02	170x240x39	Ⓑ	115,-	963-127	72,-
EMB 600-2	600	0,01	0,01	± 0,03	170x240x39	Ⓑ	155,-	963-127	72,-
EMB 1000-2	1000	0,01	0,01	± 0,03	170x240x53	Ⓒ	190,-	963-127	72,-
EMB 2000-2	2000	0,01	0,01	± 0,05	170x240x53	Ⓒ	205,-	963-127	72,-
EMB 500-1	500	0,1	0,1	± 0,2	170x240x39	Ⓒ	55,-	963-127	72,-
EMB 1200-1	1200	0,1	0,1	± 0,3	170x240x39	Ⓒ	75,-	963-127	72,-
EMB 3000-1	3000	0,1	0,1	± 0,3	170x240x39	Ⓒ	120,-	963-127	72,-
EMB 6000-1	6000	0,1	0,1	± 0,3	170x240x39	Ⓒ	155,-	963-128	88,-
EMB 2200-0	2200	1	1	± 2	170x240x39	Ⓒ	55,-	963-127	72,-
EMB 5.2K1	5200	1	1	± 3	170x240x39	Ⓒ	55,-	963-128	88,-
EMB 5.2K5	5200	5	5	± 10	170x240x39	Ⓒ	50,-	963-128	88,-

Precision balance KERN EMB-V

Entry level 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 Interesting facts about density determination see page 11
- Visualised process means avoiding 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
- 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, plastic, Ø A 82 mm, with conductive lacquer, see enlarged picture. The illustration shows the EMB 200-3V model with optional density set YDB-01 B 150 mm
- Dimensions housing WxDxH 170x240x53 mm
- Net weight approx. 0,764 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

for KERN EMB 200-3V:
- 5 **Set for density determination** of liquids and solids with density ≤/≥ 1. Scope of delivery: Weighing plate, beaker, sample holder, plummet, KERN YDB-01, **€ 215,-**
- **Calibration certificate for the plummet** (20 g), KERN 962-335V, **€ 141,-**

for KERN EMB 2000-2V:
- 6 **Set for density determination** of liquids and solids with density ≤/≥ 1. Scope of supply: Weighing plate, beaker, sample holder, plummet, KERN YDB-02, **€ 330,-**
- **Calibration certificate for the plummet** (200 g), KERN 962-338V, **€ 141,-**

STANDARD

| CAL EXT | RS 232 | UNDER | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| DAkkS +3 DAYS |

Model	Weighing range	Readout	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
	[Max]	[d]					DAkkS	
KERN	g	g	g	g		€	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,-

For more information, please visit www.kern-sohn.com/en/EMB-V · Order hotline +49 [0] 7433 9933-0

Precision 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 165 ff.
- **1 Draught shield** standard, only for models with weighing plate size A, weighing space WxDxH 145x145x65 mm

Technical data

- LCD display, digit height 15 mm
- Weighing plate dimensions
  A Ø 105 mm
  B WxD 160x160 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. 1,4 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 the internet

STANDARD   OPTION

| CAL EXT | PCS | RECIPE | PERCENT | UNIT | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY | 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 DAkkS 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	155,-	963-128	88,-
EMS 12K0.1	12000	0,1	0,1	± 0,3	0,2	B	190,-	963-128	88,-
EMS 6K1	6000	1	1	± 3	2	B	65,-	963-128	88,-
EMS 12K1	12000	1	1	± 3	2	B	95,-	963-128	88,-

Precision 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

Piece counting
Thanks to its high level of accuracy, it is ideal for counting very small parts

With the **recipe function** you can weigh the different ingredients of a mixture. For control purposes you can also call up the total weight of all the ingredients

Precision 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 Ⓐ, weighing space ØxH 90x40 mm

Technical data

- Backlit LCD display, digit height 15 mm
- Weighing plate dimensions
  - Ⓐ Ø 81 mm
  - Ⓑ Ø 105 mm
  - Ⓒ WxD 130x130 mm
  - Ⓓ WxD 150x170 mm, see enlarged picture
- Weighing plate material
  - Ⓐ Plastic, with conductive lacquer
  - Ⓑ, Ⓒ, Ⓓ Stainless steel

- Optional battery operation, battery 9 V Block not standard. 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 retrofitted, **€ 25,-** for models with weighing plate size
  - Ⓐ KERN PCB-A02
  - Ⓑ KERN PCB-A03
  - Ⓒ KERN PCB-A04
  - Ⓓ KERN PCB-A05
- **Hook for underfloor weighing** of hanging loads, standard, can be retrofitted, 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, **€ 65,-**
- **Software Balance Connection**, for details see page 159, KERN SCD-4.0, **€ 150,-**

- **Individual header data:** the free software KERN SHM-01 can be used to print 4 header lines on the printout for printers YKN-01, 911-013 and YKB-01N
- **RS-232/Ethernet adapter** to connect balances with an RS-232 interface to a network via Ethernet, for details see page 158, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate, see the internet
- **Suitable printers** see page 157 ff.

STANDARD

| CAL EXT | RS 232 | PRINTER | PCS | RECIPE | PERCENT | UNIT | MOVE | UNDER | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| ACCU | DAkkS +3 DAYS |

Model KERN	Weighing range [Max] g	Readout [d] g	Reproduci-bility 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	
									DAkkS KERN	€
PCB 100-3	100	0,001	0,001	± 0,003	0,002	1,1	Ⓐ	**255,-**	963-127	72,-
PCB 250-3	250	0,001	0,001	± 0,005	0,002	1,1	Ⓐ	**290,-**	963-127	72,-
PCB 350-3	350	0,001	0,002	± 0,005	0,002	1,1	Ⓐ	**300,-**	963-127	72,-
PCB 200-2	200	0,01	0,01	± 0,02	0,02	1,1	Ⓑ	**215,-**	963-127	72,-
PCB 1000-2	1000	0,01	0,01	± 0,03	0,02	1,4	Ⓒ	**245,-**	963-127	72,-
PCB 2500-2	2500	0,01	0,01	± 0,5	0,02	1,4	Ⓒ	**290,-**	963-127	72,-
PCB 3500-2	3500	0,01	0,02	± 0,05	0,02	1,4	Ⓒ	**300,-**	963-127	72,-
PCB 1000-1	1000	0,1	0,1	± 0,2	0,2	1,4	Ⓒ	**180,-**	963-127	72,-
PCB 2000-1	2000	0,1	0,1	± 0,2	0,2	1,4	Ⓒ	**200,-**	963-127	72,-
PCB 6000-1	6000	0,1	0,1	± 0,3	0,2	2	Ⓓ	**225,-**	963-128	88,-
PCB 10000-1	10000	0,1	0,1	± 0,3	0,2	2	Ⓓ	**240,-**	963-128	88,-
PCB 6000-0	6000	1	1	± 2	2	2	Ⓓ	**120,-**	963-128	88,-

Precision balance KERN PCD

High-resolution precision balance with removable display for maximum flexibility

Features

- **Laboratory balance with separate platform:** Ideal when working in 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** to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **Draught shield** standard for models with weighing plate size Ⓐ, weighing space WxDxH 146x146x70 mm

Technical data

- Backlit LCD display, digit height 21 mm
- Weighing plate dimensions
  Ⓐ Ø 105 mm
  Ⓑ WxD 160x160 mm, see enlarged picture
- Weighing plate material
  Ⓐ Plastic, with conductive lacquer
  Ⓑ 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. 0,88 m
- Net weight approx. 1,1 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over the display device, KERN PCD-A05, **€ 25,-**
- ❶ **Stand** to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, **€ 45,-**
- ❷ **Foot switch**, ideal when 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 158, 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** to connect balances with an RS-232 interface to a network via Ethernet, for details see page 158, KERN YKI-01, **€ 390,-**
- **Suitable printers** see page 157 ff.

STANDARD | | | | | | | | | | | OPTION

| CAL EXT | RS 232 | GLP PRINTER | PCS | RECIPE | PERCENT | UNIT | MOVE | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY | ACCU | DAkkS +3 DAYS |

Model KERN	Weighing range [Max] g	Readout [d] g	Reproduci-bility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	€
PCD 250-3	250	0,001	0,002	± 0,005	0,002	Ⓐ	**320,-**	963-127	72,-
PCD 2500-2	2500	0,01	0,02	± 0,05	0,02	Ⓑ	**305,-**	963-127	72,-
PCD 10K0.1	10000	0,1	0,1	± 0,3	0,2	Ⓑ	**235,-**	963-128	88,-

Precision balance KERN 440

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
  - A Ø 81 mm
  - B Ø 105 mm
  - C WxD 130x130 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. 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 retrofitted **€ 26,-** for models with weighing plate size
  - A KERN 440-210-002
  - B KERN 440-330-002
  - C KERN 440-450-002
  - D KERN 440-530-002
- **Rechargeable battery pack internal,** operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, **€ 45,-**
- **Second display,** KERN YKD-A01, **€ 95,-**

- **Individual header data:** the free software KERN SHM-01 can be used to print 4 header lines on the printout for printers YKN-01, 911-0103 and YKB-01N
- **Hook for underfloor weighing** of hanging loads, standard, can be reordered, KERN 440-A01, **€ 25,-**
- **RS-232/Ethernet adapter** to connect balances with an RS-232 interface to a network via Ethernet, for details see page 158, KERN YKI-01, **€ 390,-**
- **Suitable test weights,** also with calibration certificate, see the internet
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD

| CAL EXT | RS 232 | PRINTER | PCS | RECIPE | PERCENT | UNIT | MOVE | UNDER | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| ACCU | DAkkS +3 DAYS |

Model KERN	Weighing range [Max] g	Readout [d] g	Reproduci-bility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
								DAkkS 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,-

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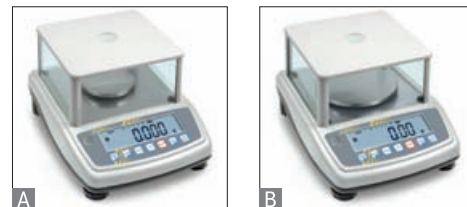
Quick-displaying precision balance with user-friendly operation modes and EC type approval

Features

- **Easy 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** to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **Draught shield** standard for models with weighing plate size A and B. Removable metal cover with pipette opening. 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

- 1 **Separate second display**, ideal for training and demonstration purposes in laboratories or industry, not permitted for direct sales to the public, KERN PFB-A08, **€ 95,-**
- **Bluetooth data interface** for wireless data transfer to PC, must be ordered at purchase, KERN PFB-A10, **€ 90,-**
- **Suitable printers** see page 157 ff.

STANDARD									OPTION	FACTORY	
CAL EXT	RS 232	GLP PRINTER	PCS	RECIPE	% PERCENT	230 V	DMS	1 DAY	2 YEARS WARRANTY	DAkkS +3 DAYS	BT	M +3 DAYS only PFB-M

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Reproduci-bility	Linearity	Weighing plate	Price excl. of VAT ex works	Options			
								Verification		DAkkS-Calibr. Certificate	
KERN	g	g	g	g	g		€	M KERN	€	DAkkS KERN	€
PFB 120-3	120	0,001	–	0,001	± 0,003	A	**270,-**	–	–	963-127	72,-
PFB 200-3	200	0,001	–	0,001	± 0,003	A	**280,-**	–	–	963-127	72,-
PFB 300-3	300	0,001	–	0,002	± 0,003	A	**305,-**	–	–	963-127	72,-
PFB 1200-2	1200	0,01	–	0,01	± 0,03	B	**235,-**	–	–	963-127	72,-
PFB 2000-2	2000	0,01	–	0,01	± 0,03	B	**245,-**	–	–	963-127	72,-
PFB 3000-2	3000	0,01	–	0,01	± 0,03	B	**270,-**	–	–	963-127	72,-
PFB 6K0.05	6000	0,05	–	0,05	± 0,15	C	**235,-**	–	–	963-128	88,-
PFB 6000-1	6000	0,1	–	0,1	± 0,3	C	**215,-**	–	–	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	**250,-**	965-216	66,-	963-127	72,-
PFB 600-1M	600	0,1	0,1	0,1	± 0,1	B	**320,-**	965-216	66,-	963-127	72,-
PFB 6000-1M	6000	0,1	1	0,1	± 0,3	C	**250,-**	965-217	77,-	963-128	88,-
PFB 6000-0M	6000	1	1	1	± 1	C	**315,-**	965-217	77,-	963-128	88,-

For more information, please visit www.kern-sohn.com/en/PFB · Order hotline +49 [0] 7433 9933-0

Precision balance KERN PLE-N

A

2

High-resolution precision balance with large range of functions

Features

- **Compact size,** practical for small spaces
- **Piece counting:** Reference quantities selectable. Display can be switched from piece to weight
- **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
- 1 **Underfloor weighing:** load support with hook on the underside of the balance by means of a built-in loop (only KERN PLE 4200-2N), hook not included

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 11.
  For all models with readout [d] = 0,001 g, KERN ALT-A02, **€ 350,-**
  For all models with readout [d] = 0,01 g, KERN PLT-A01, **€ 350,-**
- **RS-232/Ethernet adapter** to connect balances with an RS-232 interface to a network via Ethernet, for details see page 158, KERN YKI-01, **€ 390,-**
- **Suitable test weights,** also with calibration certificate, see the internet
- **Suitable printers** see page 157 ff.

STANDARD

CAL EXT	RS 232	GLP PRINTER	PCS	RECIPE	PERCENT	UNIT	TOL	UNDER	230 V	DMS	1 DAY	3 YEARS WARRANTY

1

OPTION

ACCU	DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Reproduci-bility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	€
PLE 420-3N	420	0,001	0,002	± 0,004	0,005	A	**410,-**	963-127	72,-
PLE 4200-2N	4200	0,01	0,02	± 0,04	0,05	B	**410,-**	963-127	72,-

Precision balance KERN PKS

Laboratory specialist with clear easy graphic for easy 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 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... Ideal for monitoring and documenting your processes in accordance with your quality management system

Precision balance KERN PKS

A

B

1

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
- **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, ...)
- **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
  A Ø 81 mm
  B WxD 130x130 mm
  C WxD 150x170 mm, see larger 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 retrofitted, **€ 25,-** for models with weighing plate size
  A KERN PCB-A02
  B KERN PCB-A04
  C KERN PCB-A05
- **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** to connect balances with an RS-232 interface to a network, via Ethernet, for details see page 158, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate, see the internet
- **Suitable printers** and an extensive accessories range, see page 157 ff.

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

Funcitons
- Capacity display, with ① - ②, ⑤ - ⑦, ⑨
- Dispensing assistance (-/+), with ③, ④
- Net/Gross display, permanently with ①, ③ - ⑤, ⑧ - ⑨
- Variable reference quantity, with ②
- Automatic reference optimization, with ②
- Tare deduction numerical or from the memory unit, with, ① - ⑦
- Entering 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/m^2, or similar, with ⑨
- Date/time, with ① - ⑨
- Statistical function, with ①
- GLP printout, with ① - ⑨
- Individual formatting of print-outs, with ① - ⑨

STANDARD

CAL EXT	MEMORY	RS 232	GLP PRINTER	PCS	RECIPE	PERCENT	UNIT	TOL	MOVE	UNDER	230 V	DMS	1 DAY	3 YEARS WARRANTY

OPTION

ACCU	DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Reproduci-bility 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	
									DAkkS 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,-

Precision balances KERN KB-N · KB-NM · KBJ

A

B

1

CAL INT

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** through Yes/No dialogue on the display
- **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, for details see the internet
- 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 retrofitted, **€ 25,-** for models with weighing plate size **A** KERN PCB-A02, **B** KERN PCB-A04 **C** KERN PCB-A05
- **Rechargeable battery pack internal**, operating time up to 15 hours with backlight, 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 the internet
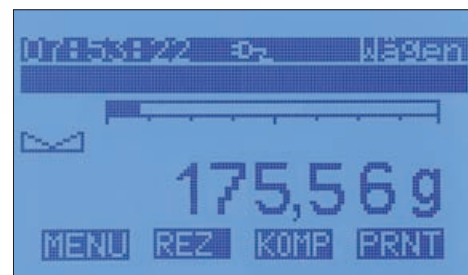- **Suitable printers** see page 157 ff.

STANDARD													OPTION		FACTORY
CAL INT only KBJ	CAL EXT	RS 232	GLP PRINTER	PCS	RECIPE	% PERCENT	UNIT	MOVE	UNDER	230 V	DMS	1 DAY	2 YEARS WARRANTY KB	3 YEARS WARRANTY KBJ	ACCU	DAkkS +3 DAYS	M +3 DAYS only KB-M, KBJ-M

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Reproduci-bility	Linearity	Weighing plate	Price excl. of VAT ex works	Options			
								Verification		DAkkS-Calibr. Certificate	
KERN	g	g	g	g	g		€	M KERN	€	DAkkS KERN	€
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	260,-	–	–	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,-

Precision balance KERN EWJ

B

C

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

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 indipendent of its location
- Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Draught shield** with removable cover and opening for using a pipette, standard for models with weighing plate size Ⓐ, Ⓑ, weighing space WxDxH 145x160x80 mm
- **RS-232 and USB interfaces** for transferring weighing data to the PC, printer, USB sticks etc.

Technical data

- Large backlit LCD display, digit height 16,5 mm
- Weighing plate dimensions, stainless steel
  Ⓐ Ø 80 mm
  Ⓑ Ø 135 mm
  Ⓒ 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 retrofitted, KERN EWJ-A04, **€ 25,-**
- **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,-**
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD | OPTION | FACTORY

| CAL INT | RS 232 | USB only with DBS-A02 | GLP PRINTER | PCS | RECIPE | PERCENT | UNIT | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | ACCU | DAkkS +3 DAYS | M +3 DAYS only EWJ-M |

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Linearity	Weighing plate	Price excl. of VAT ex works	Options			
								Verification		DAkkS-Calibr. Certificate	
KERN	g	g	g	g	g		€	KERN	€	DAkkS KERN	€
EWJ 300-3	300	0,001	–	–	± 0,003	Ⓐ	440,-	–	–	963-127	72,-
EWJ 3000-2 🆕	3000	0,01	–	–	± 0,03	Ⓑ	420,-	–	–	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	Ⓑ	375,-	965-216	66,-	963-127	72,-
EWJ 6000-1M	6000	0,1	1	5	± 0,3	Ⓒ	375,-	965-217	77,-	963-128	88,-

🆕 New model

Precision balances KERN 572 · 573

All-rounder e.g. as laboratory, counting or checking balance, as well 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. Their robustness due to an aluminium diecast housing, typical industrial functions, such as piece-counting, vibration-free weighing and the large weighing ranges do make these balances ideal for all industrial applications, where a high level of precision is required

• The robust metal housing helps to keep the balance stable, protect the weighing system and ist sturdy enough to cope with everyday use
• Only 572: **Ring-shaped draught shield** standard (weighing plate Ⓐ), weighing space ØxH 157x43 mm
• Hook for underfloor weighing, standard on all models with [d] = 0,001 g
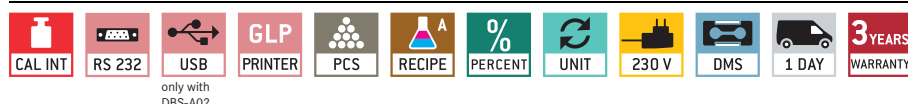• ❶ **UNITS:** For further weighing units see the internet (only 572)

Technical data

• Large backlit LCD display, digit height 18 mm
• Weighing plate dimensions, stainless steel,
  Ⓐ Ø 106 mm
  Ⓑ Ø 150 mm
  Ⓒ 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 retrofitted, KERN 572-A02, **€ 25,-**
• ❷ Only 572: **Rechargeable battery pack external**, operating time up to 25 h, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
• ❸ **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 Ⓐ), KERN 572-A05, **€ 160,-**
• **Hook for underfloor weighing**, for models with [d] ≥ 0,01 g, can be retrofitted, KERN 572-A03, **€ 25,-**
• **Suitable test weights**, also with calibration certificate, see the internet
• **Suitable printers** see page 157 ff.

STANDARD											OPTION		FACTORY
CAL EXT	RS 232	PRINTER	PCS	RECIPE	PERCENT	UNIT ❶	MOVE	UNDER	230 V	DMS	1 DAY	3 YEARS WARRANTY	ACCU ❷	M +3 DAYS only 573
												DAkkS +3 DAYS	

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Linearity	Reproduci-bility	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Options			
									Verification		DAkkS-Calibr. Certificate	
KERN	g	g	g	g	g	kg		€	M⑪ KERN	€	DAkkS KERN	€
572-30	240	0,001	–	± 0,003	0,001	2,3	Ⓐ	520,-	–	–	963-127	72,-
572-31	300	0,001	–	± 0,005	0,002	2,3	Ⓐ	520,-	–	–	963-127	72,-
572-32	420	0,001	–	± 0,005	0,002	2,3	Ⓐ	540,-	–	–	963-127	72,-
572-33	1600	0,01	–	± 0,03	0,01	2,3	Ⓑ	480,-	–	–	963-127	72,-
572-35	2400	0,01	–	± 0,03	0,01	2,3	Ⓑ	490,-	–	–	963-127	72,-
572-37	3000	0,01	–	± 0,05	0,02	2,3	Ⓑ	490,-	–	–	963-127	72,-
572-39	4200	0,01	–	± 0,05	0,02	2,3	Ⓑ	520,-	–	–	963-127	72,-
572-45	12000	0,05	–	± 0,15	0,05	2,7	Ⓒ	490,-	–	–	963-128	88,-
572-55	20000	0,05	–	± 0,15	0,1	2,7	Ⓒ	520,-	–	–	963-128	88,-
572-43	10000	0,1	–	± 0,3	0,1	2,7	Ⓒ	480,-	–	–	963-128	88,-
572-49	16000	0,1	–	± 0,3	0,1	2,7	Ⓒ	480,-	–	–	963-128	88,-
572-57	24000	0,1	–	± 0,3	0,1	2,7	Ⓒ	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	Ⓑ	550,-	965-216	66,-	963-127	72,-
573-46NM	6500	0,1	1	± 0,2	0,1	2,7	Ⓒ	550,-	965-217	77,-	963-128	88,-

For more information, please visit www.kern-sohn.com/en/572 .../573 · Order hotline +49 [0] 7433 9933-0

Precision balances KERN PLJ-C · PLJ-G

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

Features

- **Automatic internal adjustment** in the case of a change in temperature ≥ 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

Characteristics KERN PLJ-C:

- **2** Weighing principle: Force compensation
- **Alibi memory:** paperless way to archive weighing results, see also page 11
- **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.

Characteristics KERN PLJ-G:

- **3** Weighing principle: Strain gauge
- **4 Rechargable battery pack internal**, standard, operating time up to 45 h without backlight, 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. 3,6 kg (incl. draught shield approx. 4 kg)
- Permissible ambient temperature 15 °C / 30 °C

Accessories

- **Protective working cover** standard, can be retrofitted, KERN ALS-A02, **€ 25,-**
- **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, KERN PLS-A01, **€ 530,-**
- **Suitable test weights**, also with calibration certificate, see the internet
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD															OPTION	FACTORY
CAL INT	MEMORY	RS 232	USB	GLP INTERN	GLP PRINTER	PCS	RECIPE	UNIT	TOL	MOVE	UNDER	ACCU	230 V	DMS	FORCE	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS	M +3 DAYS
	only PLJ-C		only PLJ-C	only PLJ-C	only PLJ-G			only PLJ-G				4		3	2				

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Reproduci-bility	Linearity	Min. piece weight [Counting]	Weighing plate	Price excl. of VAT ex works	Options			
									Verification		DAkkS-Calibr. Certificate	
KERN	g	g	g	g	g	g/piece		€	M KERN	€	DAkkS KERN	€
PLJ 300-3CM	360	0,001	0,01	0,001	± 0,004	0,005	A	680,-	965-216	66,-	963-127	72,-
PLJ 600-3CM	600	0,001	0,01	0,002	± 0,004	0,005	A	690,-	965-216	66,-	963-127	72,-
PLJ 700-3CM NEW	750	0,001	0,01	0,02	± 0,004	0,005	A	700,-	965-216	66,-	963-127	72,-
PLJ 600-2GM	600	0,01	0,1	0,02	± 0,02	0,05	A	510,-	965-216	66,-	963-127	72,-
PLJ 3000-2CM	3500	0,01	0,1	0,01	± 0,04	0,05	B	680,-	965-216	66,-	963-127	72,-
PLJ 6000-1GM	6000	0,1	1	0,2	± 0,2	0,5	B	510,-	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.

NEW New Model

Precision balance KERN PKT

Touchscreen laboratory balance with extensive range of functions
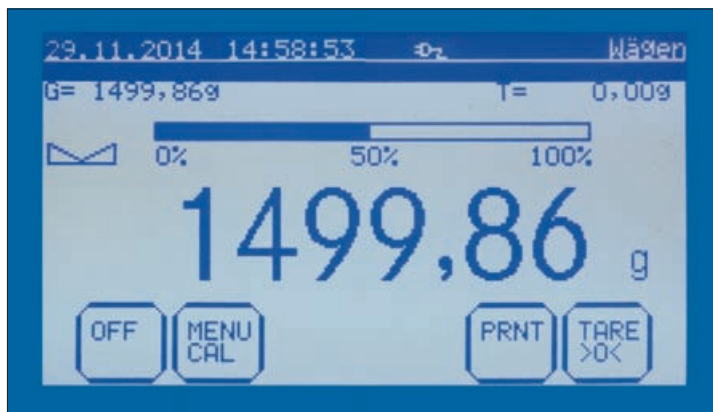
Display at full size, operating mode weighing

- **Innovative touchscreen**: High-contrast, backlit and touch-sensitive display for comfortable use and easy reading
- **Advantages:**
  - The menu and processes are self-explanatory
  - No more errors or lost time through keys which have several functions or unclear markings
  - Large keys, which can also be operated while wearing gloves
  - More efficient and fast in use
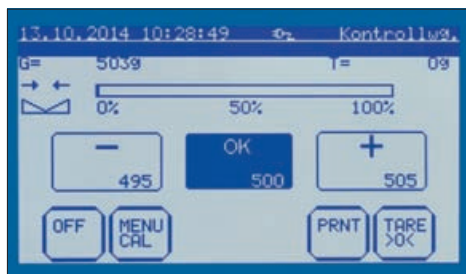
Weighing with tolerance range (checkweighing): Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading

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

Easy entering of text and values
e.g. up to 80 item descriptions, user name, weights of tare containers, etc. using the large keypad

Precision balance KERN PKT

Features

- **80 memories for each operation mode, e.g.**, for checkweighing, PRE-TARE, reference weight, target weight when dispensing etc.
- **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 keypad. 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. The actual and target values and the proportionate percentage can then be printed
- **Multiplier function:** recipes where the ingredients have been entered as percentages can easily be multiplied when you entering the new target weight, which is ideal for the production of larger containers, bulk packs etc.
- **Rapid function** for shortened stabilisation time with reduced resolution
- **16 print forms** which can store up to 20 different information, such as, for example, 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
- **Ring-shaped draught shield** standard for models with weighing plate size Ⓐ, 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,
  Ⓐ Ø 106 mm
  Ⓑ Ø 150 mm
  Ⓒ 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 retrofitted, KERN 572-A02, **€ 25,-**
- **Rechargeable battery pack external**, Operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Large glass draught shield** with 3 sliding doors. Weighing space WxDxH 150x140x130 mm (only for models with weighing plate size Ⓐ), KERN 572-A05, **€ 160,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1,
  ② for models with weighing plate size Ⓐ, KERN YDK-01, **€ 205,-**
  ③ for models with weighing plate size Ⓑ, KERN YDK-02, **€ 310,-**
- **RS-232/Ethernet adapter**, for details see page 158, KERN YKI-01, **€ 390,-**
- **Hook for underfloor weighing**, for models with [d] ≥ 0,01 g, can be retrofitted, KERN 572-A03, **€ 25,-**
- **Suitable test weights**, also with calibration certificate, see the internet
- **Suitable printers** see page 157 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 Ⓐ, Ⓑ
⑪ Rapid function

Functions

- Capacity display, with ① - ②, ⑤ - ⑦, ⑨ - ⑪
- Dispensing assistance (-/+), with ③, ④
- Net/Gross display, permanent, with ①, ③ - ⑤, ⑧ - ⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- Tare deduction numerical or from the memory unit, with ① - ⑦, ⑪
- Entering 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, paper weight g/m^2, or similar, with ⑨
- Date/time, with ① - ⑪
- Statistical function, with ①
- GLP printout, with ① - ⑪
- Individual formatting of up to 16 printing forms, recipes, operating mode master data in MS Excel, import via RS-232, for examples, see the internet, with ① - ⑪

STANDARD | OPTION

| CAL EXT | MEMORY | RS 232 | GLP INTERN | PCS | RECIPE | PERCENT | UNIT | TOL | MOVE | UNDER | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | ACCU | DAkkS +3 DAYS |

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

Precision balances KERN PLS · PLJ

User-friendly operation modes, as well as internal automatic adjustment

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

Piece counting
Thanks to its high level of accuracy, it is ideal for counting very small parts

Percentage determination: parts taken out of a container on the weighing plate can be displayed as a percentage value. Convenient when carrying out drying processes, during which the evaporated moisture or the remaining weight can be displayed as a percentage

Precision balances KERN PLS · PLJ

A

C

1

Features

- **1** **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
- **2** KERN PLJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance indipendant of its location. 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 165 ff.

Technical data

- Backlit LCD display, digit height 17 mm
- Weighing plate dimensions, stainless steel,
  A Ø 110 mm
  B Ø 160 mm, see enlarged picture
  C 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
- Net weight approx. 4,6 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** standard, can be retrofitted, KERN PLJ-A01, **€ 30,-**
- **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 the display. 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** to connect balances with an RS-232 interface to a network, using Ethernet, details see page 158, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate, see the internet
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD

| CAL INT 2 | CAL EXT 3 | RS 232 | GLP PRINTER | PCS | RECIPE | PERCENT | TOL | UNDER 6 | 230 V | 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	Reproduci-bility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Net weight approx. kg	Price excl. of VAT ex works €	Options			
										Verification		DAkkS-Calibr. Certificate	
										M KERN	€	DAkkS KERN	€
PLS 420-3F	420	0,001	–	0,001	± 0,004	0,005	A	2,8	**530,-**	–	–	963-127	72,-
PLS 720-3A 6	720	0,001	–	0,001	± 0,002	0,005	A	4,6	**850,-**	–	–	963-127	72,-
PLS 1200-3A 6	1200	0,001	–	0,001	± 0,003	0,005	A	4,6	**860,-**	–	–	963-127	72,-
PLS 4200-2F	4200	0,01	–	0,01	± 0,04	0,05	B	2,9	**530,-**	–	–	963-127	72,-
PLS 6200-2A	6200	0,01	–	0,01	± 0,03	0,05	B	4,6	**850,-**	–	–	963-128	88,-
PLS 8000-2A 6	8200	0,01	–	0,01	± 0,04	0,01	B	4,6	**1020,-**	–	–	963-128	88,-
PLS 20000-1F 6	20000	0,1	–	0,1	± 0,4	0,5	C	3,2	**570,-**	–	–	963-128	88,-
PLJ 420-3F	420	0,001	–	0,001	± 0,003	0,005	A	3,6	**550,-** ⬇	–	–	963-127	72,-
PLJ 720-3A 6	720	0,001	–	0,001	± 0,002	0,001	A	4,9	**790,-** ⬇	–	–	963-127	72,-
PLJ 1200-3A 6	1200	0,001	–	0,001	± 0,003	0,005	A	4,9	**1100,-**	–	–	963-127	72,-
PLJ 4200-2F	4200	0,01	–	0,02	± 0,04	0,05	B	3,8	**550,-** ⬇	–	–	963-127	72,-
PLJ 6200-2A 6	6200	0,01	–	0,01	± 0,03	0,01	B	5,2	**790,-** ⬇	–	–	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	A	4,9	**930,-**	965-216	66,-	963-127	72,-
PLJ 6200-2AM	6200	0,01	0,1	0,01	± 0,03	0,01	B	5,2	**1020,-**	965-217	77,-	963-128	88,-

⬇ Price reduction

The classic balance with a 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

Precision balances KERN EW-N · EG-N
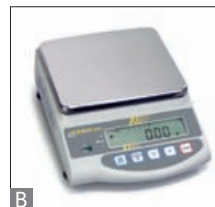
Features

- **1** only EG-NM: **Internal adjustment (CAL) by rotary knob** on the side. Guarantees high degree of accuracy and makes the balance indipendant of its location
- **2** only EW-NM: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 165 ff.
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight
- **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 retrofitted. For models with weighing plate size
  A, **B** KERN EG-A05, **€ 30,-**
  C KERN EG-A09, **€ 30,-**
- **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, **€ 105,-**
  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** to connect balances with an RS-232 interface to a network, via Ethernet, for details, see page 158, KERN YKI-01, **€ 390,-**
- **Suitable test weights**, also with calibration certificate, see the internet
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD											OPTION		FACTORY
CAL INT	CAL EXT	RS 232	GLP PRINTER	PCS	PERCENT	UNIT	TOL	UNDER	230 V	T-FORK	1 DAY	3 YEARS WARRANTY	ACCU	DAkkS +3 DAYS	M +3 DAYS only EG-NM
1	2													

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Reproduci-bility	Linearity	Weighing plate	Price excl. of VAT ex works	Options			
								Verification		DAkkS-Calibr. Certificate	
KERN	g	g	g	g	g		€	KERN	€	DAkkS KERN	€
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 820-3NM	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	**630,-**	–	–	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	**750,-**	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,-

Precision balances KERN PES · PEJ

Robust laboratory and industrial precision balance, 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, external test weights at an additional price, see page 165 ff.
- **Metal housing:** robust and sturdy
- **Weighing with tolerance range (check-weighing):** Input of 2 upper and 2 lower limit values through 4 arrow keys. An audible signal assists with the portioning, 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

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 220x333x93 mm
  - B 220x333x93 mm
  - C 260x333x110 mm
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover** standard, can be retrofitted (not for KERN PES 31000-1M), KERN PES-A04, **€ 30,-**
- Only PES: **Rechargeable battery pack internal**, operating time up to 6 h, charging time approx. 15 h (internal charging with mains adapter), KERN PES-A01, **€ 600,-**
- **Relay output** with 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, **€ 480,-**
- **RS-232/Ethernet adapter** to connect balances with an RS-232 interface to a network, via Ethernet, for details see page 158, KERN YKI-01, **€ 390,-**
- **Suitable printers** see page 157 ff.

STANDARD

CAL INT	CAL EXT	RS 232	GLP PRINTER	PCS	RECIPE	PERCENT	UNIT	TOL	UNDER	230 V	T-FORK	1 DAY	3 YEARS WARRANTY
2	3	2 pieces											

OPTION DAkkS +3 DAYS

FACTORY SWITCH | ACCU only PES | M +3 DAYS only PEJ

Model KERN	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Reproduci-bility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options Verification M KERN	€	DAkkS-Calibr. Certificate DAkkS KERN	€
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	**1890,-**	–	–	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	110,-	963-127	72,-
PEJ 2200-2M	2200	0,01	0,1	0,01	± 0,02	6	B	**1040,-**	965-216	66,-	963-127	72,-
PEJ 4200-2M	4200	0,01	0,1	0,01	± 0,02	6	B	**1190,-**	965-216	66,-	963-127	72,-

Precision balance KERN PLT

High-quality precision balance with convenient graphic display

Features

- **1 Convenient recipe-weighing:** with the recipe database, in which up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- **Rapid and efficient operation** thanks to the graphic display
- **Simple plain text user guidance in the display,** following languages available: DE, GB, FR, IT, ES, PT
- **Automatic internal adjustment** in the case of a change in temperature > 1,5 °C and time-controlled every 20 minutes
- **Percentage determination:** makes it possible to store a given weight value (100 %) and to determine deviations from this target value
- **Weighing with tolerance range**, ideal for portioning, dispensing, grading
- **GLP/ISO record keeping** of weight results with date, time and serial number

- **2 Glass draught shield**, standard for models with weighing plate size A. Removable metal cover with pipette opening, weighing space ØxH 150x60 mm

Technical data

- Large backlit LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel,
  A Ø 110 mm
  B Ø 160 mm, see enlarged picture
- Overall dimensions (incl. draught shield) WxDxH 210x340x160 mm
- Net weight approx. 4 kg
- Permissible ambient temperature 5 °C / 35 °C
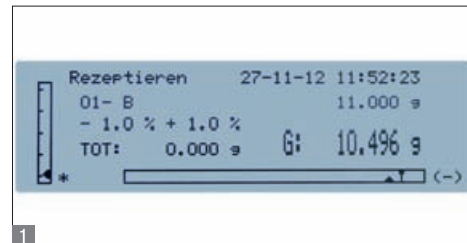
Accessories

- **Protective working cover** over keyboard and housing, standard, can be retrofitted, KERN PLJ-A01, **€ 30,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1 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** to connect balances with an RS-232 interface to a network, via Ethernet, for details see page 158, KERN YKI-01, **€ 390,-**
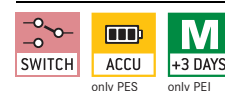- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD | OPTION

| CAL INT | MEMORY | RS 232 | GLP PRINTER | PCS | RECIPE B | PERCENT % | UNIT | TOL | MOVE | UNDER | 230 V | DMS PLT-F | FORCE PLT-A | 1 DAY | 3 YEARS WARRANTY | 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
								DAkkS KERN	€
PLT 420-3F	420	0,001	0,001	± 0,004	0,005	A	750,- ⬇	963-127	72,-
PLT 720-3A	720	0,001	0,001	± 0,002	0,005	A	990,- ⬇	963-127	72,-
PLT 1200-3A	1200	0,001	0,001	± 0,003	0,005	A	1230,-	963-127	72,-
PLT 4200-2F	4200	0,01	0,01	± 0,04	0,05	B	750,- ⬇	963-127	72,-
PLT 6200-2A	6200	0,01	0,01	± 0,03	0,05	B	990,- ⬇	963-128	88,-

! ONLY WHILE STOCKS LAST   ⬇ Price reduction

Precision balances KERN PBS · PBJ

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 mixing 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

Precision balances KERN PBS · PBJ

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 indipendant 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, division, 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** every 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** 170x180 mm, see enlarged picture
- Overall dimensions (without draught shield) WxDxH 209x322x78 mm
- Net weight approx. 3 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be retrofitted, **€ 25,-** for models with weighing plate size
  - **A** KERN PBS-A01
  - **B** KERN PBS-A02
- **4** **Set for density determination** for models with weighing plate size
  - **A** KERN PBS-A04, **€ 1390,-**
  - **B** KERN PBS-A03, **€ 1390,-**
- **RS-232/Ethernet adapter** to connect balances RS-232 interface to a network, via Ethernet, for details see page 158, KERN YKI-01, **€ 390,-**
- **Suitable test weights,** also with calibration certificate, see the internet
- **Suitable printers** and an extensive accessories range, see page 157 ff.

5 Single-cell advanced technology:
- **Fully automatically manufactured weighing**
- **cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time: 3 sec**
- **Improved mechanical sturdiness**
- **High corner load performance**

STANDARD												OPTION	FACTORY
CAL INT **1**	CAL EXT **2**	RS 232	GLP PRINTER	PCS	RECIPE A	PERCENT	UNIT	TOL	MOVE	UNDER	230 V	SC TECH **5**	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS	M +3 DAYS only PBJ

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Reproduci-bility	Linearity	Weighing plate	Price excl. of VAT ex works	Options			
									Verification		DAkkS-Calibr. Certificate	
KERN	g	g	g	g	g	g		€	KERN	€	DAkkS KERN	€
PBS 620-3M	620	0,001	–	–	0,001	± 0,002	A	**1220,-**	–	–	963-127	72,-
PBS 4200-2M	4200	0,01	–	–	0,01	± 0,02	B	**1040,-**	–	–	963-127	72,-
PBS 6200-2M	6200	0,01	–	–	0,01	± 0,02	B	**1230,-**	–	–	963-128	88,-
PBS 8200-1M *	8200	0,1	-	-	0,1	± 0,2	B	**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.												
PBJ 620-3M	620	0,001	0,01	0,1	0,001	± 0,002	A	**1420,-**	965-201	110,-	963-127	72,-
PBJ 4200-2M	4200	0,01	0,1	0,5	0,01	± 0,02	B	**1260,-**	965-216	66,-	963-127	72,-
PBJ 6200-2M	6200	0,01	0,1	1	0,01	± 0,02	B	**1530,-**	965-202	110,-	963-128	88,-
PBJ 8200-1M	8200	0,1	1	5	0,1	± 0,2	B	**1250,-**	965-217	77,-	963-128	88,-

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

Precision balance KERN PET

PREMIUM ★★★

KERN PET [d] = 0,01 g

KERN PET [d] = 0,001 g

State-of-the-art 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 there is an excess amount of one recipe ingredient the practical back calculation function automatically calculates the new target weights of the other ingredients
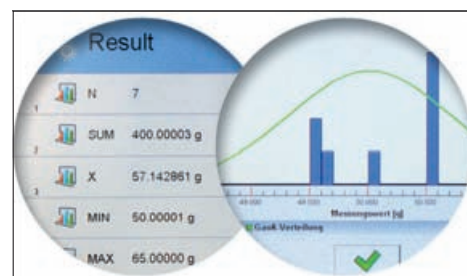
Statistical function for statistical analysis of series of measurements. Graphic display of measurement values can be used by the operator to check and evaluate the results

For more information, please visit www.kern-sohn.com/en/PET · Order hotline +49 [0] 7433 9933-0

Precision balance KERN PET

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:** paperless archive of weighing results, see also page 11

- **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
- **For further features, see page 7**

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 163, KERN PET-A05, **€ 350,-**
- **USB barcode scanner**, hand-held version, dimensions WxDxH 152x84x63 mm, details see page 163, KERN PET-A09, **€ 350,-**
- **USB keyboard** for easy capture of items, descriptions etc., dimensions WxDxH 440x128x24 mm, details see page 164, KERN PET-A06, **€ 45,-**
- **Second display**, dimensions WxDxH 150x33x80 mm, details see page 164, KERN PET-A03, **€ 210,-**
- **Direct thermal label printer,** software for easy editing of (adhesive) labels included, for details see page 163, KERN PET-A13, **€ 980,-**
- **Thermal transfer and direct thermal label printer**, software for easy editing of (adhesive) labels included, for details see page 163, 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 158), details see page 163, KERN PET-A01, **€ 300,-**
- **Set for density determination** of liquids and solids, as well as porous materials (soaked in oil) ≤/≥ 1. For details see page 161. KERN YDB-03, **€ 520,-** The internal density determination software in the balance takes you through the process, step by step, and shows the density on the display. You can also use a pycnometer

STANDARD															OPTION	FACTORY
CAL INT	MEMORY	RS 232	LAN	USB	SWITCH	GLP INTERN	PCS	RECIPE	PERCENT	UNIT	TOL	MOVE	UNDER	230 V	FORCE	3 YEARS WARRANTY	1 DAY	DAkkS +3 DAYS	M +3 DAYS

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Weighing plate	Price excl. of VAT ex works	Options			
							Verification		DAkkS-Calibr. Certificate	
KERN	g	g	g	g		**€**	M KERN	€	DAkkS 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.										

↓ Price reduction
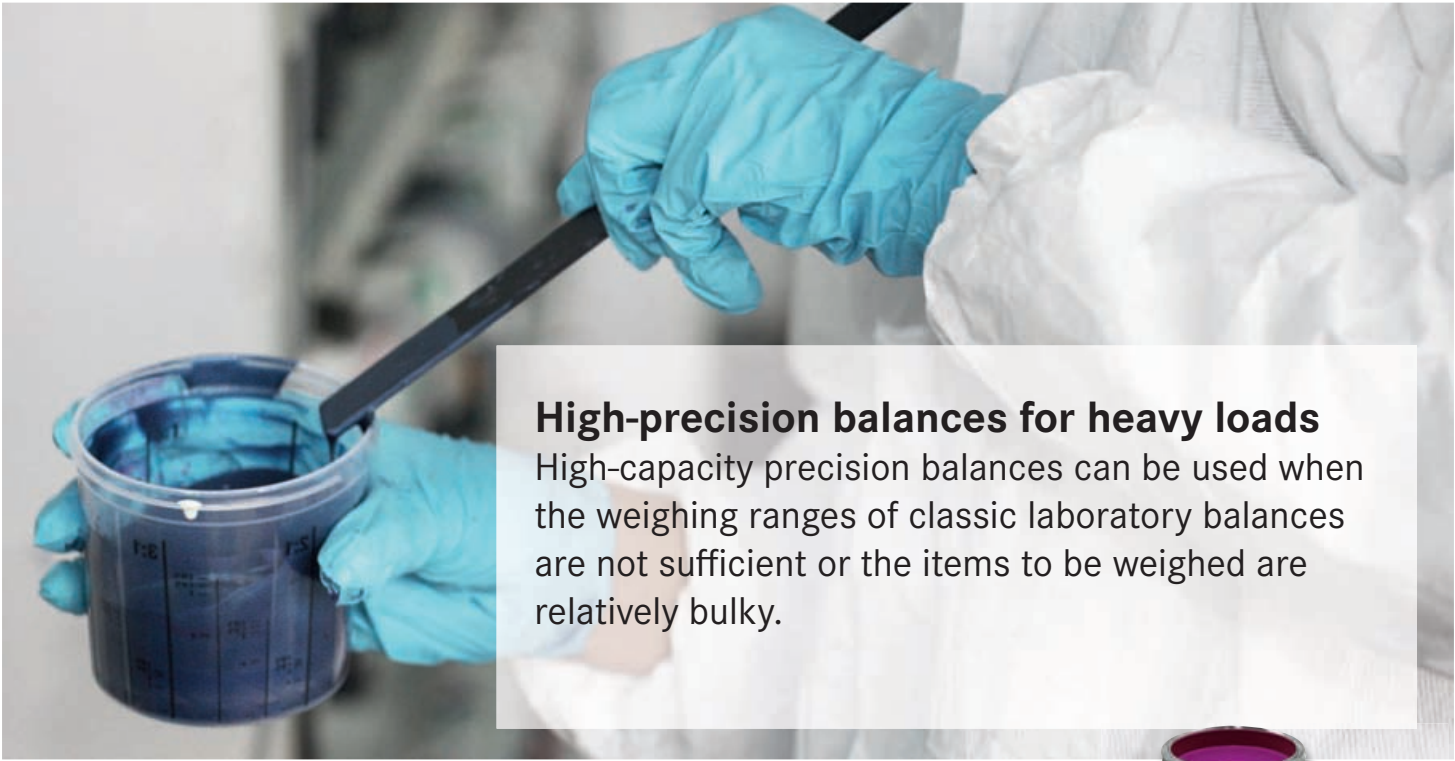
High-precision balances for heavy loads

High-capacity precision balances can be used when the weighing ranges of classic laboratory balances are not sufficient or the items to be weighed are relatively bulky.

KERN PES

KERN DS

KERN ILS-C / ILJ-C

KERN IKT

KERN PES 31000-1M

Robust laboratory and industrial precision balance

Ideally suited for compact, very dense samples, such as those which might be found in road building or the construction industry, for example.

Weighing range: 31 kg
Read-out: 0,1 g
Weighing plate: 250x220 mm

For additional information see page S. 36

KERN DS 8K0.05

Affordable platform balance with laboratory accuracy

Best for bulky or heavy samples, thanks to the robust platform with stainless steel weighing plate and display device which can be positioned to suit you. Of course it has all the features related to laboratory work, which will make your processes more efficient and reliable.

Weighing range: 8 kg
Read-out: 0,05 g
Weighing plate: 308x318 mm

For additional information see page 112

KERN ILS 50K-4C

High-resolution laboratory platform scale for the most precise results up to 50 kg

The high-quality finish, exceptional weighing data and extensive configuration package all go to make this range particularly suitable for demanding requirements.

Weighing range: 50 kg
Read-out: 0,1 g
Weighing plate: 347x259 mm

For additional information see page 113

KERN IKT 3K0.01S

High-resolution platform scale with stainless steel weighing plate and separate touchscreen display device

Particularly practical when working with toxic, volatile or contaminated substances in glove bags or fume cupboards.

Weighing range: 3 kg
Read-out: 0,01 g
Weighing plate: 228x228 mm

For additional information see page 114 / 115

Analytical balances

Interesting facts about Analytical balances

To avoid relevant result deviations when weighing with high-precision analytical balances, we recommend to keep in mind a few basic things:

- Daily ➜ *adjustment*, particularly if there are temperature variations, etc.
- Internal automatic adjustment feature is strongly recommended
- Avoidance of air movement, e.g. open doors, windows, ➜ *draught shield*
- Avoidance of adjacent heat sources such as, for example, heaters, laboratory equipment which heats up and other items
- Use of a special weighing table, e.g. KERN YPS-03, page 44
- Use of an ioniser to neutralise electrostatic charges on the items being weighed, e.g. KERN YBI-01, page 44

➜ *See the glossary on page 191 – 192*

Your KERN product specialist will be happy to help:

Katharina Queitsch
Product specialist Analytical balances

Tel. +49 [0] 7433 9933-218
Fax +49 [0] 7433 9933-29218
katharina.queitsch@kern-sohn.com

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
0,01 mg	101 g	ABT 100-5M	1810,-	49	1	○	●			●		●
0,01 mg	100 g	AET 100-5M	4700,-	50	1	○	●		●	●	●	●
0,01 | 0,1 mg	42 | 120 g	ABT 120-5DM	1980,-	49	1	○	●			●		●
0,01 | 0,1 mg	80 | 220 g	AEJ 200-5CM	1950,-	47	1	○	●		●	●		●
0,01 | 0,1 mg	82 | 220 g	ABT 220-5DM	2130,-	49	1	○	●			●		●
0,01 | 0,1 mg	82 | 220 g	AET 200-5DM	4600,-	50	1	○	●		●	●	●	●
0,1 mg	82 g	ABS 80-4N	850,-	45	1			●		○		●
0,1 mg	82 g	ABJ 80-4NM	930,-	45	1	○	●			○		●
0,1 mg	120 g	ABS 120-4N	910,-	45	1			●		○		●
0,1 mg	120 g	ABJ 120-4NM	350,-	45	1	○	●			○		●
0,1 mg	120 g	ABT 120-4M	1350,-	49	1	○	●			●		●
0,1 mg	160 g	ALS 160-4A	1060,-	46	1			●		●		●
0,1 mg	160 g	ALJ 160-4AM	1210,-	46	1	○	●			●		●
0,1 mg	160 g	AES 100-4C	940,-	47	1			●	●	●		●
0,1 mg	160 g	AEJ 100-4CM	1010,-	47	1	○	●		●	●		●
0,1 mg	160 g	ALT 160-4B	950,-	48	1		●		●	●		●
0,1 mg	220 g	ABS 220-4N	960,-	45	1			●		○		●
0,1 mg	220 g	ABJ 220-4NM	1040,-	45	1	○	●			○		●
0,1 mg	220 g	AES 200-4C	970,-	47	1			●	●	●		●
0,1 mg	220 g	AEJ 200-4CM	1050,-	47	1	○	●		●	●		●
0,1 mg	220 g	ABT 220-4M	1590,-	49	1	○	●			●		●
0,1 mg	220 g	AET 200-4NM	2800,-	50	1	○	●		●	●	●	●
0,1 mg	250 g	ALS 250-4A	1110,-	46	1			●		●		●
0,1 mg	250 g	ALJ 250-4AM	1250,-	46	1	○	●			●		●
0,1 mg	250 g	ALT 250-4B	990,-	48	1		●		●	●		●
0,1 mg	310 g	ALJ 310-4A	1290,-	46	1		●			●		●
0,1 mg	320 g	ABS 320-4N	1130,-	45	1			●		○		●
0,1 mg	320 g	ABJ 320-4NM	1230,-	45	1	○	●			○		●
0,1 mg	320 g	ABT 320-4M	1780,-	49	1	○	●			●		●
0,1 mg	510 g	AET 500-4	6100,-	50	1		●		●	●	●	●

● = Standard   ○ = Option

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.

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.

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,-**

Analytical balance KERN ABS-N · ABJ-NM

6 Single-cell advanced technology:
- **Fully automatically manufactured weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time:** 3 sec
- **Improved mechanical sturdiness**
- **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 165 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 weight value

- **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 an OIML-Certificate

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 retrofitted, KERN ACS-A02, **€ 30,-**
- **3 Data interface RS-232** interface cable included, KERN ACS-A01, **€ 75,-**
- **4 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 162, KERN YPS-03, **€ 900,-**
- **5 Set for density determination** of liquids and solids with density ≤/≥ 1, details see page 161, KERN YDB-03, **€ 520,-**
- **7 Ioniser** to neutralise electrostatic charge, see page 162, KERN YBI-01, **€ 1350,-**
- **Suitable printers** see page 157 ff.

STANDARD | | | | | | | | | | OPTION | FACTORY

| CAL INT 1 | CAL EXT 2 | GLP PRINTER | PCS | RECIPE A | PERCENT % | UNIT | TOL | 230 V | SC TECH | 1 DAY | 3 YEARS WARRANTY | RS 232 3 | DAkkS +3 DAYS | M +3 DAYS only ABJ-NM |

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Reproduci-bility	Linearity	Price excl. of VAT ex works	Options			
								Verification		DAkkS Calibr. Certificate	
KERN	g	mg	mg	mg	mg	mg	€	M KERN	€	DAkkS KERN	€
ABS 80-4N	82	0,1	–	–	0,2	± 0,3	850,-	–	–	963-101	138,-
ABS 120-4N	120	0,1	–	–	0,2	± 0,3	910,-	–	–	963-101	138,-
ABS 220-4N	220	0,1	–	–	0,2	± 0,3	960,-	–	–	963-101	138,-
ABS 320-4N	320	0,1	–	–	0,2	± 0,3	1130,-	–	–	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	930,-	965-201	110,-	963-101	138,-
ABJ 120-4NM	120	0,1	1	10	0,2	± 0,3	950,-	965-201	110,-	963-101	138,-
ABJ 220-4NM	220	0,1	1	10	0,2	± 0,3	1040,-	965-201	110,-	963-101	138,-
ABJ 320-4NM	320	0,1	1	10	0,2	± 0,3	1230,- ⬇	965-201	110,-	963-101	138,-

⬇ Price reduction

Analytical balance KERN ALS-A · ALJ-A

3

4

Precision and price united in harmony, with automatic internal and external adjustment

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 165
- **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
- **Weighing with tolerance range**, ideal for portioning division, dispensing, grading

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. 5,7 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover**, KERN ALJ-A01, **€ 25,-**
- **Protective dust cover**, KERN ABS-A08, **€ 30,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1, details see page 161, KERN YDB-03, **€ 520,-**
- **3** **Ioniser** to neutralise electrostatic charge, see page 162, KERN YBI-01, **€ 1350,-**
- **4** **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 162, KERN YPS-03, **€ 900,-**
- **Suitable printers** and further, extensive accessories from page 157 ff.

STANDARD												OPTION	FACTORY
CAL INT	CAL EXT	RS 232	GLP PRINTER	PCS	RECIPE	PERCENT	UNIT	TOL	MOVE	230 V	FORCE	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS	M +3 DAYS only ALJ-AM
1	2													

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Reproduci- bility	Linearity	Price excl. of VAT ex works	Options			
							Verification		DAkkS Calibr. Certificate	
KERN	g	mg	mg	mg	mg	€	M KERN	€	DAkkS KERN	€
ALS 160-4A	160	0,1	–	0,1	± 0,3	**1060,-**	–	–	963-101	138,-
ALS 250-4A	250	0,1	–	0,1	± 0,3	**1110,-**	–	–	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 160-4AM	160	0,1	1	0,2	± 0,3	**1210,-**	965-201	110,-	963-101	138,-
ALJ 250-4AM	250	0,1	1	0,2	± 0,3	**1250,-**	965-201	110,-	963-101	138,-
ALJ 310-4A	310	0,1	–	0,1	± 0,3	**1290,-**	–	–	963-101	138,-

For more information, please visit www.kern-sohn.com/en/ALS-A_ALJ-A · Order hotline +49 [0] 7433 9933-0

03

Analytical balance KERN AES-C · AEJ-CM

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 (alibi memory).

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 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

- **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
- Dimensions of weighing plate, stainless steel, Ø 85 mm
- Overall dimensions WxDxH 206x335x335 mm
- Weighing space WxDxH 168x160x225 mm
- Net weight approx. 5,4 kg
- Permissible ambient temperature 18 °C / 30 °C

Accessories

- **Protective working cover,** standard, can be retrofitted, KERN ALS-A02, **€ 25,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1, for details see page 161. Step-by-step user guidance and calculated density shown immediately on the display, KERN YDB-03, **€ 520,-**
- **Ioniser** to neutralise electrostatic charge, see page 162, KERN YBI-01, **€ 1350,-**
- **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 162, KERN YPS-03, **€ 900,-**
- **Suitable printers** see page 157 ff.

STANDARD													OPTION	FACTORY
CAL INT	CAL EXT	MEMORY	RS 232	USB	GLP INTERN	PCS	RECIPE	PERCENT	UNIT	TOL	UNDER	230 V	FORCE	3 YEARS WARRANTY	1 DAY	DAkkS +3 DAYS	M +3 DAYS only AEJ-CM

Model KERN	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimum load [Min] mg	Reproduci-bility mg	Linearity mg	Price excl. of VAT ex works €	Options Verification M KERN	€	DAkkS Calibr. Certificate DAkkS KERN	€
AES 100-4C	160	0,1	–	–	0,2	± 0,2	940,-	–	–	963-101	138,-
AES 200-4C	220	0,1	–	–	0,2	± 0,2	970,-	–	–	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	80 | 220	0,01 | 0,1	1 | 1	1	0,04 | 0,1	± 0,1 | 0,2	1950,-	965-201	110,-	963-101	138,-
AEJ 100-4CM	160	0,1	1	10	0,2	± 0,3	1010,-	965-201	110,-	963-101	138,-
AEJ 200-4CM	220	0,1	1	10	0,2	± 0,3	1050,-	965-201	110,-	963-101	138,-

Analytical balance KERN ALT-B
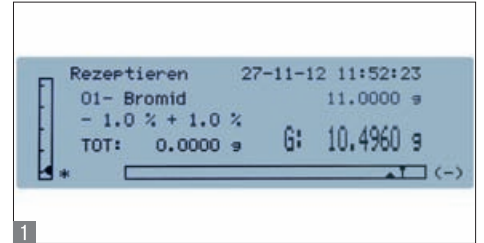
Analytical balance with extensive recipe database

Features

- 1 **Convenient recipe-weighing:** with the recipe database, in which up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- **Rapid and efficient operation** thanks to the graphic display
- **Simple plain text user guidance in the display**, following languages available: DE, GB, FR, IT, ES, PT
- **Automatic internal adjustment** in the case of a change in temperature > 1,5 °C and time-controlled every 20 minutes
- **Percentage determination:** parts taken out of a container on the weighplate can be displayed as a percentage. Convenient when carrying out drying processes, during which the evaporated moisture or the remaining weight can be displayed as a percentage

- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading
- **Vibration-free weighing:** When the weighing conditions are unstable, a stable weight is calculated based on an average value
- **GLP/ISO record keeping** of weight values with date, time and serial number
- **Modern all glass draught wind shield** for ideal visibility of the weighing object

Technical data

- Large backlit LCD display, digit height 15 mm
- Dimensions weighing surface Ø 80 mm
- Dimensions housing WxDxH 210x340x330 mm
- Weighing space WxDxH 160x140x205 mm
- Net weight approx. 5,7 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover**, KERN ALJ-A01, **€ 25,-**
- **Protective dust cover**, KERN ABS-A08, **€ 30,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1, for details see page 161. Step-by-step user guidance and calculated density shown immediately on the display, KERN YDB-03, **€ 520,-**
- **Ioniser** to neutralise electrostatic charge, see page 162, KERN YBI-01, **€ 1350,-**
- 2 **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 162, KERN YPS-03, **€ 900,-**
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD

| CAL INT | MEMORY | RS 232 | GLP PRINTER | PCS | RECIPE | % PERCENT | UNIT | TOL | MOVE | 230 V | 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	
							DAkkS KERN	€ '
ALT 160-4B	160	0,1	0,1	± 0,3	0,5	**950,-** ⬇	963-101	138,-
ALT 250-4B	250	0,1	0,1	± 0,3	0,5	**990,-** ⬇	963-101	138,-

❗ **ONLY WHILE STOCKS LAST**   ⬇ Price reduction

Analytical balance KERN ABT

The premium model with single-cell weighing system

Single-cell advanced technology:
- **Fully automatically manufactured weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time:** Steady weight values within approx. 5 sec under laboratory conditions
- **Improved mechanical sturdiness**
- **High corner load performance**

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 weight value
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- **Automatic data output to the PC/printer** each time the balance has obtained a stable weighing result

- **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
- Dimensions of weighing plate 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 retrofitted, KERN ABT-A02, **€ 26,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1. The density is indicated directly on the display, for details see page 161, KERN YDB-03, **€ 520,-**
- **1 Ioniser** to neutralise electrostatic charge, see page 162, KERN YBI-01, **€ 1350,-**
- **2 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 162, KERN YPS-03, **€ 900,-**
- **Suitable printers** and an extensive accessories, see page 157 ff.

STANDARD | CAL INT | RS 232 | GLP INTERN | PCS | RECIPE | PERCENT | UNIT | UNDER | 230 V | 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	Reproducibility mg	Linearity mg	Price excl. of VAT ex works €	Options Verification MD KERN	€	DAkkS Calibr. Certificate DAkkS KERN	€
ABT 120-4M	120	0,1	1	10	0,1	± 0,2	1350,- ⏷	965-201	110,-	963-101	138,-
ABT 220-4M	220	0,1	1	10	0,1	± 0,2	1590,- ⏷	965-201	110,-	963-101	138,-
ABT 320-4M	320	0,1	1	10	0,1	± 0,3	1780,- ⏷	965-201	110,-	963-101	138,-
ABT 100-5M	101	0,01	1	1	0,05	± 0,15	1810,- ⏷	965-201	110,-	963-101	138,-
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	1980,- ⏷	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	2130,- ⏷	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.											

⏷ Price reduction

Analytical balance KERN AET

PREMIUM ★★★

KERN AET [d] = 0,1 mg

KERN AET [d] = 0,01 mg

State-of-the-art premium touchscreen analytical balance with the complete range of functions for demanding processes

Intuitive 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

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

For more information, please visit www.kern-sohn.com/en/AET · Order hotline +49 [0] 7433 9933-0

Analytical balance KERN AET

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 calculation:** 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 also page 11
- ▯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
- **Grid weighing pan and hook for suspended weighing** as standard
- **For further features, see page 7**

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
- Weighing plate dimensions, stainless steel, Ø 85 mm
- Dimensions housing WxDxH on all models with
  [d] = 0,01 mg: 573x348x217 mm
  [d] = 0,1 mg: 348x360x217 mm
- Weighing space WxDxH 168x160x225 mm
- Permissible ambient temperature 18 °C / 30 °C

Accessories

- **Protective working cover** over the display device, standard, can be retrofitted, suitable for the series AET, PET, ILT, KERN ILT-A02, **€ 25,-**

- **Protective dust cover,** KERN ABS-A08, **€ 30,-**
- **RS-232 barcode scanner,** hand-held version, dimensions WxDxH 152x84x63 mm, details see page 163, KERN PET-A05, **€ 350,-**
- **USB barcode scanner,** hand-held version, dimensions WxDxH 152x84x63 mm, details see page 163, KERN PET-A09, **€ 350,-**
- **USB keyboard** for easy capture of items, descriptions etc., dimensions WxDxH 440x128x24 mm, details see page 164, KERN PET-A06, **€ 45,-**
- **Second display,** dimensions WxDxH 150x33x80 mm, details see page 164, KERN PET-A03, **€ 210,-**
- **Direct thermal label printer,** software for easy editing of (adhesive) labels included, for details see page 163, KERN PET-A13, **€ 980,-**
- **Thermal transfer and direct thermal label printer,** software for easy editing of (adhesive) labels included, for details see page 163, 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 158), details see page 163, KERN PET-A01, **€ 300,-**
- **Set for density determination** of liquids and solids, as well as porous materials (soaked in oil) ≤/≥ 1. For details see page 161. KERN YDB-03, **€ 520,-** The internal density determination software in the balance takes you through the process, step by step, and shows the density on the display. You can also use a pycnometer

STANDARD															OPTION	FACTORY
CAL INT	MEMORY	RS 232	USB	SWITCH	LAN	GLP INTERN	PCS	RECIPE	PERCENT	UNIT	TOL	MOVE	UNDER	230 V	FORCE	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS	M +3 DAYS

| Model | Weighing range [Max] | Readout [d] | Verification value [e] | Minimum load [Min] | Reproduci-bility | Linearity | Price excl. of VAT ex works | Options | | | |
KERN	g	mg	mg	mg	mg	mg	€	Verification MD KERN	€	DAkkS Calibr. Certificate DAkkS 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 200-5DM	82 | 220	0,01 | 0,1	1	1	0,04 | 0,1	± 0,1 | 0,2	**4600,-** ⬇	965-201	110,-	963-101	138,-
AET 100-5M	100	0,01	1	1	0,05	± 0,1	**4700,-** ⬇	965-201	110,-	963-101	138,-
AET 200-4NM	220	0,1	1	10	0,2	± 0,3	**2800,-** ⬇	965-201	110,-	963-101	138,-

⬇ Price reduction

Moisture analysers

DBS	53

Modern moisture analyser with 10 memories and
graphic display

DLB	54

Robust moisture analyser for samples up to 160 g

MLB-C · MLS-C	55

Moisture analysis in an instant:
Infrared moisture analyser with graphic display and
a high capacity memory

DLT-N	56

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

Moisture analysing is an integral part of production and processing 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 (gentle drying, standard drying, gradual drying, 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.

Your KERN product specialist will be happy to help:

Ulrich Ulmer
Product specialist Moisture analysers

Tel.   +49 [0] 7433 9933- 160
Fax   +49 [0] 7433 9933- 29160
ulmer@kern-sohn.com

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	**MLB 50-3C**	**1220,-**	55	1	●	●	●
0,001 g	50 g	**MLS 50-3C**	**1550,-**	55	1	●	●	●
0,001 g	60 g	**DBS 60-3**	**1140,-**	53	1	●	●	●
0,001 g	160 g	**DLB 160-3A**	**1200,-**	54	1	●	●	●
0,001 g	160 g	**DLT 100-3N**	**2200,-**	56	1	●	●	●

● = Standard   O = Option

Moisture analyser KERN DBS

Modern moisture analyser with 10 memories and graphic display

STANDARD

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

1 DAY

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 switchable at all times)	
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 of 1 °C
Drying modes	Standard drying Gradual drying Gentle drying Rapid drying
Switch off criteria	• When the set time has expired 1 min - 4 h • When the weight loss per unit of 157 f.
Call up of measurement	Interval can be set from 1 sec - 10 min (Only when used with printer KERN YKB-01N or PC)
Overall dimensions WxDxH	202x336x157 mm
Net weight	approx. 4,2 kg
Price €, excl. of VAT, ex works	1140,-
Option DAkkS Calibr. Certificate	963-127, € 72,-

7

04
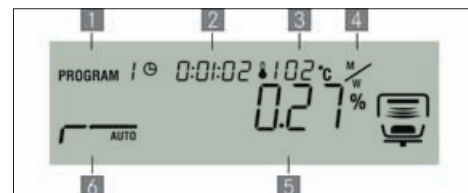
Features

- 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 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 92 mm. Box with 80 pieces, KERN MLB-A01, **€ 60,-**
- **Round fiberglass filter** e. g. for samples that splash or become encrusted. Box with 80 pieces, KERN RH-A02, **€ 80,-**
- 7 **Temperature calibration set** consists of measuring sensor and display device, KERN DBS-A01, **€ 420,-**
- **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,-**
- **Suitable printers** see page 157 ff.

Moisture analyser KERN DLB

Robust moisture analyser for samples up to 160 g

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 switchable at all times)	
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	35 °C - 160 °C in steps of 1 °C
Drying modes	Standard drying / Rapid drying, Pre-heat level, can be switched on
Switch off criteria	• When the set time has expired 1 min - 99 min / • When the weight loss per unit of time (60 sec) falls below the target value
Call up 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
Net weight value	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 run 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 92 mm. Box with 80 pieces, KERN MLB-A01, **€ 60,-**
- **Round fiberglass filter** e. g. for samples that splash or become encrusted. Box with 80 pieces, KERN RH-A02, **€ 80,-**
- 5 **Temperature calibration set** consists of measuring sensor and display device, KERN DLB-A01, **€ 390,-**
- **Protective working cover** standard, can be retrofitted, KERN ALJ-A01, **€ 25,-**
- **Suitable printers** see page 157 ff.

Moisture analysers KERN MLB-C · MLS-C

KERN MLB-C
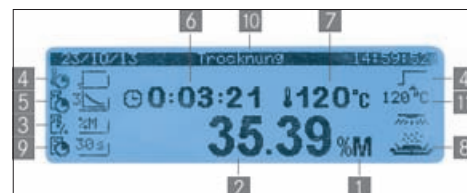
KERN MLS-C

KERN MLB-C

KERN MLS-C

Moisture analysis in an instant: Infrared moisture analyser with graphic display and a high capacity memory

Features

- Backlit graphic display, digit height 14 mm
- **Infrared heater** 400 W
- **Internal memory** for automatic run of complete drying programs (MLB-C: 20, MLS-C: 100) and 100 drying processes already executed (only MLS-C), which can be called up individually
- 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 form of a metal grid, ensure that moisture exhausts quickly which leads to shorter drying times
- Drying programs with optimised drying characteristics for rapid sample warming and therefore shorter drying times
- **10 sample plates included**
- **Application handbook:** There are many practical examples in the user manual

1 Unit of the shown result, e.g. moisture [%]
2 Current moisture content in %
3 Printout in moisture %
4 Drying mode *Standard*
5 Switch off criteria
6 Previous drying time
7 Current temperature
8 Drying process active

only MLS-C:
9 Printer interval 30 sec
10 Status bar
11 Target temperature

in addition with KERN MLS-C:

- **Simple „step-by-step" user guidance in the display** in the following languages DE, GB, FR, IT, ES, PL
- 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
- **Practical weighing assistance** to arrive at a defined target value [g] with an adjustable tolerance range of 1 - 25 % of the target value

Accessories

- **Sample plates aluminium,** Ø 92 mm. Box with of 80 pieces, KERN MLB-A01, **€ 60,-**
- **Round fiberglass filter** e. g. for samples that splash or become encrusted. Box with of 80 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 retrofitted, KERN ALS-A02, **€ 25,-**
- **Thermal printer,** KERN YKB-01N, **€ 355,-**

STANDARD

									OPTION
CAL EXT	MEMORY	RS 232	GLP INTERN	UNIT	230 V	FORCE	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS

KERN	MLB 50-3C	MLS 50-3C
Readout [d]	0,001 g / 0,01 %	
Weighing range [Max]	50 g	
Reproducibility, weight of sample 2 g	0,24 %	
Reproducibility, weight of sample 10 g	0,04 %	
Display after drying (Display switchable at all times)		
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 %	
Residual weight [g]	Absolute value in [g]	
Temperature range	40 °C - 160 °C in steps of 1 °C	
Drying modes	Standard drying Gentle drying Gradual drying Rapid drying	
Switch off criteria	• When the set time has expired (1 min - 9 h 59 min) • When a constant weight per adjustable time unit has been reached (10 - 120 sec)	• When the set time has expired (1 min - 99 h 59 min) • When loss in weight per unit of time falls below the target value, both values freely programmable ([mg/sec])
Call up of measurement, interval adjustable	1 - 180 sec (only in connection with KERN YKB-01N printer or PC)	1 - 300 sec
Overall dimensions WxDxH	206x333x192 mm	
Net weight	approx. 5,1 kg	
Price €, excl. of VAT, ex works	**1220,-**	**1550,-**
Option DAkkS Calibr. Certificate	963-127, € 72,-	

Moisture analyser KERN DLT-N

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

Features

- **Innovative touchscreen:** Touch-sensitive, backlit LCD touch tablet with very good contrast for easy operation and convenient reading
- **Clear menu structure with plain text captions on the display.** The menu and processes are self-explanatory. This reduces training times, avoids operating errors and in this way, ensures a more efficient functionality

- **High mobility thanks to tablet operation,** data is available any time, anywhere
- **High-performance Android® operating system**
- **Lots of memory** for your applications
- **Memory for automatic run of 300 complete drying processes** (12 free digits per memory) and 100 drying processes already executed, which can be called up individually

- **Practical weighing assistance** to arrive at a defined target value [g] with an adjustable tolerance range of 1 – 25 % of the target value
- **10 sample plates included**
- **Wireless connection to a Bluetooth printer** allows for the printing of weighing data and drying curves for archiving purposes
- **Halogen quartz glass heater** 400 W
- **Colour LCD Display**, digit height 12 mm, screen diagonal 7" (approx. 178 mm), 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

Accessories

- **Sample plates aluminium**, Ø 92 mm. Box with 80 pieces, KERN MLB-A01, **€ 60,-**
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Box with 80 pieces, KERN RH-A02, **€ 75,-**
- **Temperature calibration set** consisting of measuring sensor and display device, incl. transport case, KERN DLB-A01, **€ 350,-**
- **Protective working cover** standard, can be reordered, KERN ALJ-A01, **€ 25,-**
- 12 **Bluetooth thermal printer,** suitable for wireless connection to compatible, Bluetooth-enabled moisture analysers, balances, dynamometers etc., see page 157, KERN YKC-01, **€ 690,-**

STANDARD   OPTION

CAL EXT	MEMORY	RS 232	BT	GLP PRINTER	UNIT	230 V	230 V	DMS	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS

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 [%] = Dry content [%] = 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	35 °C - 160 °C in steps of 1 °C
Drying modes	Standard drying / Gradual drying / Gentle drying / Rapid drying
Switch off criteria	• When the set time has expired (1 - 99 min) • When the weight loss per unit of time (60 sec) falls below the target value
Call up of measurement	• At the end of the drying process, manual or automatic (only in connection with KERN YKC-01)
Dimensions Moisture analyser WxDxH	210x340x225 mm
Dimensions Tablet BxTxH	195x120x10 mm
Net weight	approx. 4,5 kg
Price €, excl. of VAT ex works	**2200,-**
Option DAkkS Calibration Certificate	963-127, **€ 72,-**

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 165 f.

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 30 / 31 (PKT), 40 / 41 (PET), 50 / 51 (AET), 66 / 67 (FKT), 81 / 82 (FKTF), 98 (FKA), 99 (FKC), 114 / 115 (IKT), 116 / 117 (ILT)

➔ *See the glossary on page 191 – 192*

Your KERN product specialist will be happy to help:

Stephan Ade
Product specialist Bench scales

Tel.   +49 [0] 7433 9933-121
Fax   +49 [0] 7433 9933-29121
ade@kern-sohn.com

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
0,02 g	6 kg	FKB 6K0.02	490,-	65	1		●		●	●		○	○	○
0,02 g	6 kg	FKT 6K0.02L	890,-	66	1		●	●	●	●	●	○	○	○
0,05 g	6 kg	GAB 6K0.05N	295,-	62	1		●		●	●	●			○
0,05 g	6 kg	GAB 6K-5P	560,-	63	1		●		●	●	●			●
0,05 g	8 kg	FKB 8K0.05	460,-	65	1		●		●	●		○	○	○
0,05 g	16 kg	FKB 16K0.05	560,-	65	1		●		●	●		○	○	○
0,05 g	16 kg	FKT 16K0.05L	890,-	66	1		●	●	●	●	●	○	○	○
0,1 g	3 kg	FCB 3K0.1	220,-	61	1		●		●	●		○	○	○
0,1 g	6 kg	FKT 6K0.1	790,-	66	1		●	●	●	●	●	○		○
0,1 g	8 kg	FCB 8K0.1	230,-	61	1		●		●	●		○	○	○
0,1 g	8 kg	FKB 8K0.1A	300,-	64	1		●		●	●		○	○	○
0,1 g	8 kg	FKB 8K0.1M	530,-	65	1	○	●		●	●				○
0,1 g	12 kg	GAB 12K0.1N	295,-	62	1		●		●	●	●			○
0,1 g	12 kg	GAB 10K-4P	550,-	63	1		●		●	●	●			●
0,1 g	16 kg	FKB 16K0.1	460,-	65	1		●		●	●		○	○	○
0,1 g	36 kg	FKB 36K0.1	520,-	65	1		●		●	●		○	○	○
0,1 g	36 kg	FKT 36K0.1L	890,-	66	1		●	●	●	●	●	○	○	○
0,2 g	12 kg	FKT 12K0.2	790,-	66	1		●	●	●	●	●	○		○
0,2 g	30 kg	GAB 30K0.2N	295,-	62	1		●		●	●	●			○
0,2 g	30 kg	GAB 30K-4P	550,-	63	1		●		●	●	●			●
0,2 g	36 kg	FKB 36K0.2	480,-	65	1		●		●	●		○	○	○
0,2 g	65 kg	FKB 65K0.2	500,-	65	1		●		●	●		○	○	○
0,2 g	65 kg	FKT 65K0.2L	890,-	66	1		●	●	●	●	●	○	○	○
0,5 g	6 kg	FCB 6K0.5	195,-	61	1		●		●	●		○	○	○
0,5 g	15 kg	FKB 15K0.5A	290,-	64	1		●		●	●		○	○	○
0,5 g	30 kg	FKT 30K0.5L	790,-	66	1		●	●	●	●	●	○	○	○
0,5 g	65 kg	FKB 65K0.5	480,-	65	1		●		●	●		○	○	○
1 g	3 kg	FCE 3K1N	110,-	60	1		●						○	○
1 g	6 kg	FKT 6K1LM	890,-	66	1	○	●	●	●	●	●	○	●	
1 g	12 kg	FCB 12K1	180,-	61	1		●		●	●		○	○	○
1 g	15 kg	FKB 15K1A	260,-	64	1		●		●	●		○	○	○
1 g	30 kg	FCB 30K1	220,-	61	1		●		●	●		○	○	○
1 g	30 kg	FKB 30K1A	290,-	64	1		●		●	●		○	○	○
1 g	60 kg	FKT 60K1L	790,-	66	1		●	●	●	●	●	○	○	○
1 g	65 kg	FKB 65K1A	300,-	64	1		●		●	●		○	○	○
1 g	65 kg	FKB 65K1M	550,-	65	1	○	●		●	●				○
1 | 2 g	3 | 6 kg	GAB 6K1DNM	230,-	62	1	○	●		●	●	●			○
1 | 2 g	3 | 6 kg	GAB 6K-3PM	480,-	63	1	○	●		●	●	●			●
2 g	6 kg	FCE 6K2N	110,-	60	1		●						○	○
2 g	12 kg	FKT 12K2LM	890,-	66	1	○	●	●	●	●	●	○	●	
2 g	24 kg	FCB 24K2	180,-	61	1		●		●	●		○	○	○
2 | 5 g	6 | 15 kg	GAB 15K2DNM	230,-	62	1	○	●		●	●	●			○
2 | 5 g	6 | 15 kg	GAB 10K-3PM	480,-	63	1	○	●		●	●	●			●
5 g	10 kg	ECE 10K5	100,-	59	1		●						○	○
5 g	10 kg	ECB 10K5	120,-	59	1		●						○	○
5 g	15 kg	FCE 15K5N	110,-	60	1		●						○	
5 g	30 kg	FKT 30K5LM	890,-	66	1	○	●	●	●	●	●	○	●	
5 | 10 g	15 | 30 kg	GAB 30K5DNM	230,-	62	1	○	●		●	●	●			○
5 | 10 g	15 | 30 kg	GAB 30K-3PM	480,-	63	1	○	●		●	●	●			●
10 g	20 kg	ECB 20K10	120,-	59	1		●						○	○
10 g	20 kg	ECE 20K10	100,-	59	1		●						○	○
10 g	30 kg	FCE 30K10N	110,-	60	1		●						○	○
10 g	60 kg	FKT 60K10LM	890,-	66	1	○	●	●	●	●	●	○	●	
20 g	50 kg	ECE 50K20	100,-	59	1		●						○	○
20 g	50 kg	ECB 50K20	120,-	59	1		●						○	○

05

Bench scales KERN ECE · ECB

sim. to illustration

sim. to illustration

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**
• **Adjusting program CAL**, external test weights at an additional price, see page 165 ff.

Technical data

• Large backlit LCD display, digit height 21 mm
• Weighing plate dimensions (1 ECE: Plastic, ECB: stainless steel) WxD 320x260 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

• **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, **€ 65,-**
• **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 from stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 161, KERN RFS-A02, **€ 50,-**

STANDARD

| CAL EXT | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| ACCU | DAkkS +3 DAYS |

Model	Weighing range	Readout	Reproducibility	Linearity	Net weight	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
	[Max]	[d]			approx.		DAkkS	
KERN	kg	g	g	g	kg	€	KERN	€
ECE 10K5	10	5	5	± 20	1,5	**100,-**	963-128	88,-
ECE 20K10	20	10	10	± 40	1,5	**100,-**	963-128	88,-
ECE 50K20	50	20	20	± 80	1,5	**100,-**	963-128	88,-
ECB 10K5	10	5	5	± 20	1,7	**120,-**	963-128	88,-
ECB 20K10	20	10	10	± 40	1,7	**120,-**	963-128	88,-
ECB 50K20	50	20	20	± 60	1,7	**120,-**	963-128	88,-

Bench scale KERN FCE-N

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 checkweiging 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 retrofitted, KERN FCB-A02, **€ 25,-**
- [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, **€ 45,-**

STANDARD

| CAL EXT | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| ACCU | DAkkS +3 DAYS |

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS 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,-

For more information, please visit www.kern-sohn.com/en/FCE-N · Order hotline +49 [0] 7433 9933-0

Bench scale KERN FCB

Bench scale with second display on the backside

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, plate, 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 retrofitted, KERN FCB-A02, **€ 25,-**
- **Rechargeable battery pack internal**, operating time up to 10 h without backlight, charging time approx. 10 h, can be retrofitted, KERN FCB-A01, **€ 45,-**
- **Suitable printers** see page 157 ff.

STANDARD

CAL EXT	RS 232	GLP PRINTER	PCS	RECIPE	PERCENT	UNIT	MOVE	BATT	230 V	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	
							DAkkS 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	**230,-**	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	**180,-**	963-128	88,-
FCB 30K1	30	1	1	± 3	2	**220,-**	963-128	88,-
FCB 24K2	24	2	2	± 6	4	**180,-**	963-128	88,-

Bench scale KERN GAB-N

1

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
- Dimensions of weighing plate (stainless steel) WxD 294x225 mm
- Overall dimensions WxDxH 320x330x125 mm
- Net weight approx. 3,3 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover**, KERN CFS-A02, **€ 25,-**
- 1 **Signal lamp** for visual support of weighing with tolerance range. Three-colour LED (yellow, green, red), for details see page 160. Overall dimensions WxDxH 100x180x300 mm, 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,-**

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 duties in commercial trade

- **Y cable** for parallel connection of two terminal devices to the RS-232 interface on the balance, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD											OPTION		FACTORY
CAL EXT	RS 232	PRINTER	PCS	SUM	PERCENT	UNIT	TOL	230 V	DMS	1 DAY	2 YEARS WARRANTY	ACCU · DAkkS +3 DAYS	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 M KERN	€	DAkkS Calibr. Certificate DAkkS KERN	€
GAB 6K0.05N	6	0,05	–	–	0,05	**295,-**	–	–	963-128	88,-
GAB 12K0.1N	12	0,1	–	–	0,1	**295,-**	–	–	963-128	88,-
GAB 30K0.2N	30	0,2	–	–	0,2	**295,-**	–	–	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 scale 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,-

For more information, please visit www.kern-sohn.com/en/GAB-N · Order hotline +49 [0] 7433 9933-0

05

Bench scale KERN GAB-P

1

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

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: In commercial trade, official verification duties exist

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
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department, ...)
- **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

- The determined weight, quantity, totals, percentage etc. can be printed out clearly with date and time
- **Internal printer:** Robust high-speed thermal printer. Fast and easy change of paper rolls thanks to innovative paper compartment construction

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, **€ 35,-**
- 1 **Signal lamp** for visual support of weighing with tolerance range, WxDxH 100x180x300 mm, 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** an extensive accessories range, see page 157 ff.

STANDARD | | | | | | | | | | | | OPTION | FACTORY

| CAL EXT | RS 232 | GLP INTERN | PCS | RECIPE | PERCENT | UNIT | TOL | ACCU | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | DAkkS +3 DAYS | M +3 DAYS 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		DAkkS Calibr. Certificate	
							M KERN	€	DAkkS KERN	€
GAB 6K-5P	6	0,05	–	–	0,05	**560,-**	–	–	963-128	88,-
GAB 10K-4P	12	0,1	–	–	0,1	**550,-**	–	–	963-128	88,-
GAB 30K-4P	30	0,2	–	–	0,2	**550,-**	–	–	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 scale switches automatically to the next largest weighing range [Max] and readout [d].										
GAB 6K-3PM	3|6	1|2	1|2	20	20	**480,-**	965-228	55,-	963-128	88,-
GAB 10K-3PM	6|15	2|5	2|5	40	40	**480,-**	965-228	55,-	963-128	88,-
GAB 30K-3PM	15|30	5|10	5|10	100	100	**480,-**	965-228	55,-	963-128	88,-

Bench scale KERN FKB-A

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 (paper, material, metal) or els

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 retrofitted, KERN FKB-A02, **€ 25,-**
- **Rechargeable battery pack internal**, operating time up to 8 h, charging time approx. 10 h can be retrofitted, KERN PCB-A01, **€ 65,-**
- **Suitable printers** an extensive accessories range, see page 157 ff.

STANDARD

| CAL EXT | RS 232 | PCS | RECIPE | PERCENT | UNIT | MOVE | UNDER | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| ACCU | DAkkS +3 DAYS |

Model	Weighing range	Readout	Reproducibility	Linearity	Min. piece weight [Counting]	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	g	g	g/piece	€	DAkkS 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,-

For more information, please visit www.kern-sohn.com/en/FKB-A · Order hotline +49 [0] 7433 9933-0

Bench scale KERN FKB · FKB-M

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
- not for FKB-M: **Freely programmable weighing unit,** e.g. direct display 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
- Weiging 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 retrofitted, KERN FKB-A02, **€ 25,-**
- 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 from stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, for details see page 161, KERN RFS-A02, **€ 50,-**
- **Suitable printers** an extensive accessories range, see page 157 ff.

STANDARD												OPTION		FACTORY
CAL EXT	RS 232	GLP PRINTER	PCS	RECIPE	PERCENT	UNIT	MOVE only FKB	UNDER	BATT	230 V	DMS	1 DAY	3 YEARS WARRANTY	ACCU only FKB · DAkkS +3 DAYS	M +3 DAYS only FKB-M

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Reproduci-bility g	Linearity g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
								M KERN	€	DAkkS KERN	€
FKB 6K0.02	6	0,02	–	0,04	± 0,1	0,02	**490,-**	–	–	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	**500,-**	–	–	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	**530,-**	965-217	77,-	963-128	88,-
FKB 65K1M	65	1	10	1	± 2	1	**550,-**	965-218	110,-	963-129	105,-

Bench scale KERN FKT

Touchscreen industrial scale with enormous range of functions, also with EC type approval [M]
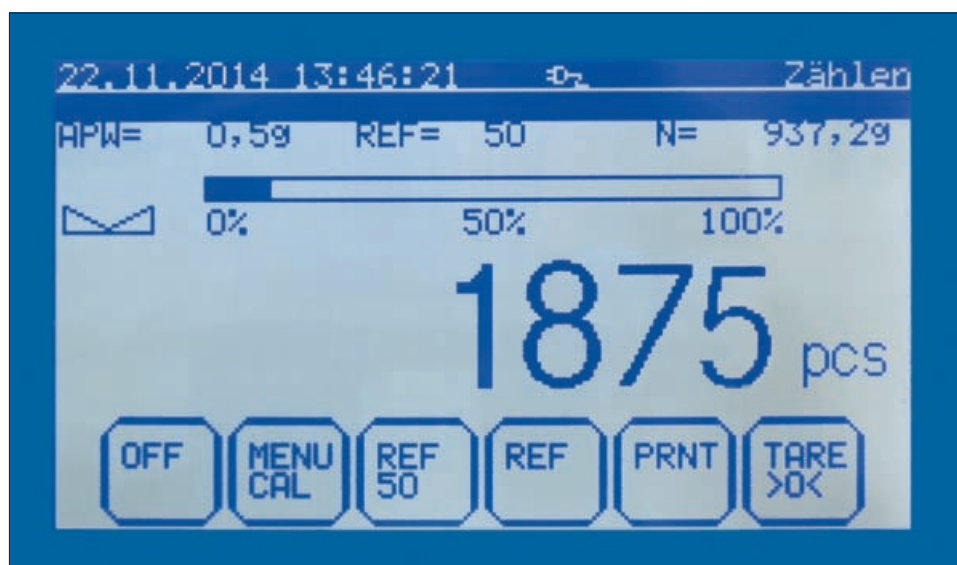
Display at full size, operating mode Counting

- **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 with several functions assigned to them or unclear markings
  - Large keys, which can also be operated while wearing gloves
  - More efficient, rapid operation

Easy entering of text and values
e.g. up to 80 item descriptions, user name, weights for tare containers, etc. using large keypad

80 memories for each mode (FKT-M: 40)
e.g. for checkweighing, PRE-TARE, reference weight, target weight when dispensing etc.
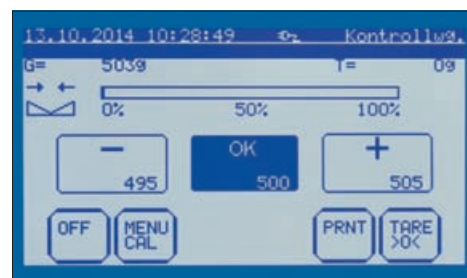
Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading

For more information, please visit www.kern-sohn.com/en/FKT · Order hotline +49 [0] 7433 9933-0

Bench scale KERN FKT

Features

- **Convenient recipe weighing:** 99 recipes with 10 components each can be stored in plain text (FKT-M: 5 recipes with 7 components each). 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. The actual and target values and the proportional 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 where the ingredients have been recorded as percentages can easily be multiplied when a new target weight is entered, target weight, which is ideal for the production of larger containers, bulk packs etc.
- **16 print forms** which can store up to 20 pieces of information, such as, e.g. date, time, operator, item, net, tare, gross, PCS, target weight, PRE-TARE etc. The print forms can be created easily in an Excel list at the PC and transferred to the balance using the RS-232 interface
- **Rapid function** for shortened stabilisation time with reduced resolution
- ② **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 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 retrofitted, for models with weighing plate size
  - A KERN FCB-A02, **€ 25,-**
  - B KERN FKB-A02, **€ 25,-**
- **Rechargeable battery pack external**, operating time up to 10 h with backlight, charging time approx. 10 h, not for FKT-M, KERN KS-A01, **€ 180,-**
- **Signal lamp** for visual support of weighing with tolerance range, for details see page 160, KERN IKT-A04, **€ 250,-**
- ② **RS-232/Ethernet adapter**, to connect balances with an RS-232 interface to a network via Ethernet, for details see page 158, KERN YKI-01, **€ 390,-**
- **Suitable printers** and an extensive accessories range, see page 157 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 Ⓜ
⑪ Rapid function, not for Ⓜ

Functions

- Capacity display, with ① - ②, ⑤ - ⑦, ⑨ - ⑪
- Dispensing aid (-/+), with ③, ④
- Net/Gross display, permanent on, with ①, ③ - ⑤, ⑧ - ⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- Tare deduction 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. direct display in special units such as length of thread g/m, grammage g/m^2, 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

| CAL EXT | MEMORY | RS 232 | GLP INTERN | PCS | RECIPE B | SUM A | PERCENT | UNIT | TOL | MOVE | UNDER B | BATT B | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | ACCU not FKT-LM |

OPTION: DAkkS +3 DAYS

FACTORY: Ⓜ +3 DAYS only FKT-LM

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Reproduci-bility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Price excl. of VAT ex works €	Options Verification Ⓜ KERN	€	DAkkS Calibr. Certificate DAkkS KERN	€
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 readout													
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,-

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

KERN scales – not scared of water at all!

Scales used in industrial situations 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).

The stainless steel weighing plates of the IP65...68 protected KERN stainless steel balances meet the 1.4301 (DIN X5CrNi18-10) standard and support you in your HACCP-compliant quality system.

Your KERN product specialist will be happy to help:

Tobias Baiker
Product specialist Stainless steel

Tel.   +49 [0] 7433 9933 - 118
Fax   +49 [0] 7433 9933 - 29118
tobias.baiker@kern-sohn.com

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.

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
0,1 g	0,5 kg	FOB 500-1S	75,-	71	1		●				●	
0,1 g	0,5 kg	FOB 0.5K-4NS	100,-	72	1		●			●	●	
0,2 g	1,5 kg	WTB 1K-4N	235,-	70	1		●		●	●		○
0,2 g	1,5 kg	FFN 1K-4N	260,-	73	1		●			●	●	●
0,5 g	1,5 kg	FOB 1.5K0.5	175,-	71	1		●				●	○
0,5 g	1,5 kg	WTB 1K-4NM	255,-	70	1	○	●		●	●		○
0,5 g	1,5 kg	FFN 1K-4NM	275,-	73	1	○	●			●	●	●
0,5 g	3 kg	WTB 3K-4N	235,-	70	1		●		●	●		○
0,5 g	3 kg	FFN 3K0.5IPN	260,-	73	1		●			●	●	●
0,5 | 1 g	5 | 7,5 kg	FOB 7K-4NL	230,-	72	1		●			●	●	○
1 g	1 kg	FOB 1K1M	180,-	71	1	○	●				●	○
1 g	3 kg	FOB 3K1	175,-	71	1		●				●	○
1 g	3 kg	WTB 3K-3NM	255,-	70	1	○	●		●	●		○
1 g	3 kg	FFN 3K1IPM	275,-	73	1	○	●			●	●	●
1 g	3 kg	FXN 3K-3	320,-	74	1		●		●	●	●	
1 g	5 kg	FOB 5K1S	75,-	71	1		●				●	
1 g	5 kg	FOB 5K-3NS	100,-	72	1		●			●	●	
1 g	6 kg	WTB 6K-3N	235,-	70	1		●		●	●		○
1 g	6 kg	FFN 6K1IPN	260,-	73	1		●			●	●	●
1 g	10 kg	SFB 10K1HIP	710,-	75	1		●	○	●	●	●	●
1 g	15 kg	FOB 15K1L	320,-	71	1		●				●	○
1 | 2 g	3 | 6 kg	SXS 6K-3M	630,-	76	1	○	●	○	●	●	●	●
1 | 2 g	8 | 15 kg	FOB 10K-3NL	230,-	72	1		●			●	●	○
2 g	6 kg	FOB 6K2	175,-	71	1		●				●	○
2 g	6 kg	WTB 6K-3NM	255,-	70	1	○	●		●	●		○
2 g	6 kg	FFN 6K2IPM	275,-	73	1	○	●			●	●	●
2 g	6 kg	FXN 6K-3	320,-	74	1		●		●	●	●	
2 g	15 kg	WTB 10K-3N	235,-	70	1		●		●	●		○
2 g	15 kg	FFN 15K2IPN	260,-	73	1		●			●	●	●
2 g	20 kg	SFB 20K2HIP	710,-	75	1		●	○	●	●	●	●
2 g	30 kg	FOB 30K2L	320,-	71	1		●				●	○
2 | 5 g	6 | 15 kg	SXS 10K-3M	640,-	76	1	○	●	○	●	●	●	●
2 | 5 g	6 | 15 kg	SXS 10K-3LM	770,-	76	1	○	●	○	●	●	●	●
2 | 5 g	16 | 30 kg	FOB 30K-3NL	230,-	72	1		●			●	●	○
5 g	15 kg	WTB 10K-3NM	255,-	70	1	○	●		●	●		○
5 g	15 kg	FFN 15K5IPM	275,-	73	1	○	●			●	●	●
5 g	15 kg	FXN 10K-3	320,-	74	1		●		●	●	●	
5 g	15 kg	SFB 15K5HIPM	720,-	75	1	○	●	○	●	●	●	●
5 g	25 kg	FFN 25K5IPN	260,-	73	1		●			●	●	●
5 g	30 kg	WTB 30K-3N	235,-	70	1		●		●	●		○
5 g	50 kg	SFB 50K5HIP	710,-	75	1		●	○	●	●	●	●
5 g	50 kg	SFB 50K5LHIP	740,-	75	1		●	○	●	●	●	●
5 g	50 kg	SFB 50K-3XL	900,-	75	1		●	○	●	●	●	●
5 | 10 g	15 | 30 kg	SXS 30K-2M	740,-	76	1	○	●	○	●	●	●	●
5 | 10 g	15 | 30 kg	SXS 30K-2LM	1050,-	76	1	○	●	○	●	●	●	●
10 g	25 kg	FFN 25K10IPM	275,-	73	1	○	●			●	●	●
10 g	30 kg	WTB 30K-2NM	255,-	70	1	○	●		●	●		○
10 g	30 kg	FXN 30K-2	320,-	74	1		●		●	●	●	
10 g	30 kg	SFB 30K10HIPM	720,-	75	1	○	●	○	●	●	●	●
10 g	100 kg	SFB 100K10HIP	750,-	75	1		●	○	●	●	●	●
10 g	100 kg	SFB 100K-2L	840,-	75	1		●	○	●	●	●	●
10 g	100 kg	SFB 100K-2XL	1160,-	75	1		●	○	●	●	●	●
10 | 20 g	30 | 60 kg	SXS 60K-2M	750,-	76	1	○	●	○	●	●	●	●
10 | 20 g	30 | 60 kg	SXS 60K-2LM	1050,-	76	1	○	●	○	●	●	●	●
20 g	60 kg	SFB 60K20HIPM	830,-	75	1	○	●	○	●	●	●	●
20 g	60 kg	SFB 60K20LHIPM	860,-	75	1	○	●	○	●	●	●	●
20 g	60 kg	SFB 60K-2XLM	930,-	75	1	○	●	○	●	●	●	●
20 g	200 kg	SFB 200K-2XL	1160,-	75	1		●	○	●	●	●	●
20 | 50 g	60 | 150 kg	SXS 100K-2M	1050,-	76	1	○	●	○	●	●	●	●
20 | 50 g	60 | 150 kg	SXS 100K-2LM	1290,-	76	1	○	●	○	●	●	●	●
50 g	120 kg	SFB 120K50HIPM	860,-	75	1	○	●	○	●	●	●	●
50 g	150 kg	SFB 100K-2HM	870,-	75	1	○	●	○	●	●	●	●
50 g	150 kg	SFB 100K-2LM	830,-	75	1	○	●	○	●	●	●	●
50 g	150 kg	SFB 100K-2XLM	1170,-	75	1	○	●	○	●	●	●	●
50 | 100 g	150 | 300 kg	SXS 300K-2M	1290,-	76	1	○	●	○	●	●	●	●
100 g	300 kg	SFB 300K-1LM	1170,-	75	1	○	●	○	●	●	●	●

● = Standard   ○ = Option

IP protected bench scale KERN WTB-N

Ideal for the 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:** Protected against dust and water splashes (only when using rechargeable battery pack)
- Weighing plate stainless steel, removable, for easy cleaning
- Your support in an **HACCP**-compliant quality system
- ② **Second display** on the rear of the balance
- 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

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions WxD 260x200 mm
- Overall dimensions WxDxH 286x316x126.5 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, can be retrofitted, KERN RFB-A01, **€ 25,-**
- **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 161, KERN RFS-A02, **€ 50,-**
- **Sturdy transport case** to protect and store the scale, dimensions WxDxH 510x360x220 mm, for details see page 162, KERN RFB-A02, **€ 95,-**

STANDARD | **OPTION** | **FACTORY**

CAL EXT | UNIT | TOL | IP 65 ① | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY | ACCU | DAkkS +3 DAYS | M +3 DAYS only WTB-M

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Price excl. of VAT ex works	Options			
						Verification		DAkkS-Calibr. Certificate	
KERN	kg	g	g	g	€	M KERN	€	DAkkS KERN	€
WTB 1K-4N	1,5	0,2	–	–	**235,-**	–	–	963-127	72,-
WTB 3K-4N	3	0,5	–	–	**235,-**	–	–	963-127	72,-
WTB 6K-3N	6	1	–	–	**235,-**	–	–	963-128	88,-
WTB 10K-3N	15	2	–	–	**235,-**	–	–	963-128	88,-
WTB 30K-3N	30	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.									
WTB 1K-4NM 🆕	1,5	0,5	0,5	10	**255,-**	965-227	55,-	963-127	72,-
WTB 3K-3NM 🆕	3	1	1	20	**255,-**	965-227	55,-	963-127	72,-
WTB 6K-3NM 🆕	6	2	2	40	**255,-**	965-228	55,-	963-128	88,-
WTB 10K-3NM 🆕	15	5	5	100	**255,-**	965-228	55,-	963-128	88,-
WTB 30K-2NM 🆕	30	10	10	200	**255,-**	965-228	55,-	963-128	88,-

🆕 New model

Stainless steel scales KERN FOB-S · FOB
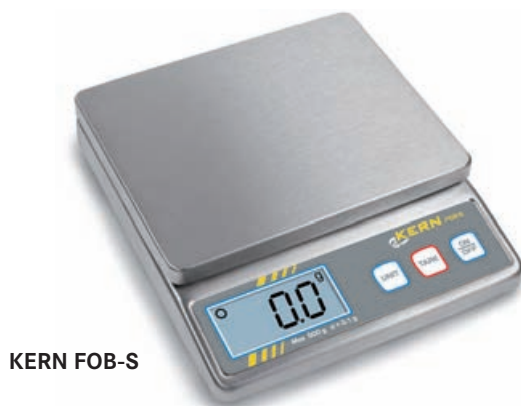
KERN FOB-S

KERN FOB

Compact stainless steel scales, also with EC type approval [M]

	KERN FOB-S	**KERN FOB**
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	
	• **Ready for use:** battery 9 V Block standard, operating time up to 20 h • **Particularly flat design**	• **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 20 mm • Weighing plate dimensions, stainless steel WxD A 120x150 mm • Overall dimensions WxDxH 170x150x40 mm • Net weight approx. 0,65 kg • Permissible ambient temperature 10 °C / 40 °C	• Large LCD display, digit height 25 mm • Weighing plate dimensions, stainless steel WxD B 175x160 mm, C 215x215 mm • Overall dimensions WxDxH B 175x235x60 mm, C 220x305x80 mm • Net weight B approx. 1,95 kg, C approx. 3,3 kg, • Permissible ambient temperature -10 °C / 40 °C
Accessories	• **Protective working cover** over keyboard and housing, standard, can be reordered, KERN FOB-A11, **€ 25,-** • **Mains adapter external,** not included, can be reordered, KERN FOB-A09, **€ 30,-**	• **Protective working cover** over keyboard and housing, standard, can be reordered, for weighing plate size B KERN FOB-A05, **€ 25,-**, C KERN FOB-A06, **€ 25,-** • **Rechargeable battery pack internal,** for weighing plate size B operating time approx. 24 h without backlight, charging time approx. 8 h, KERN FOB-A07, **€ 45,-** C operating time approx. 30 h without backlight, charging time approx. 14 h, KERN FOB-A08, **€ 55,-**

STANDARD | | | | | | OPTION

| CAL EXT | INOX | BATT | DMS | 1 DAY | 2 YEARS WARRANTY |

DAkkS +3 DAYS

STANDARD | | | | | | OPTION | | FACTORY

| CAL EXT | INOX | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY |

ACCU | DAkkS +3 DAYS | 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 KERN	€	DAkkS Calibr. Certificate DAkkS KERN	€
FOB 500-1S	0,5	0,1	–	–	A	**75,-**	–	–	963–127	72,-
FOB 5K1S	5	1	–	–	A	**75,-**	–	–	963–127	72,-
FOB 1.5K0.5	1,5	0,5	–	–	B	**175,-**	–	–	963–127	72,-
FOB 3K1	3	1	–	–	B	**175,-**	–	–	963–127	72,-
FOB 6K2	6	2	–	–	B	**175,-**	–	–	963–128	88,-
FOB 15K1L	15	1	–	–	C	**320,-**	–	–	963–128	88,-
FOB 30K2L	30	2	–	–	C	**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	B	**180,-**	965–227	55,-	963–127	72,-

Stainless steel scales KERN FOB-NS · FOB-N

NEW

NEW

KERN FOB-NS

KERN FOB-N

Compact stainless steel scales with high-level protection against dust and water splashes

	KERN FOB-NS	KERN FOB-N
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	
	• **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 • **Particularly flat design**	• **IP67:** Protected against dust and water splashes (only when using battery or rechargeable battery pack) • **Ready for use:** battery 4x 1.5 V AA standard, operating time up to 66 h without backlight
Technical data	• Large LCD display, digit height 20 mm • Overall dimensions WxDxH 170x150x40 mm • Permissible ambient temperature 10 °C / 35 °C	• 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 reordered, KERN FOB-A12, **€ 25,-** • **Mains adapter external,** not included, can be reordered, KERN FOB-A09, **€ 30,-**	• **Protective working cover** over keyboard and housing, standard, can be reordered, KERN FOB-A13, **€ 25,-** • **Mains adapter external,** not included, can be reordered, KERN FOB-A09, **€ 30,-**

STANDARD

| CAL EXT | IP 65 | INOX | BATT | DMS | 1 DAY | 2 YEARS WARRANTY |

STANDARD

| CAL EXT | IP 67 | INOX | BATT | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| 230 V | DAkkS +3 DAYS |

OPTION

| 230 V | ACCU | DAkkS +3 DAYS |

Model	Weighing range	Readout	Net weight	Weighing plate	Price excl. of VAT ex works	Options DAkkS Calibration Certificate	
	[Max]	[d]				DAkkS	
KERN	kg	g	kg	mm	€	KERN	€
FOB 0.5K-4NS	0,5	0,1	0,65	120x150	**100,-**	963-127	72,-
FOB 5K-3NS	5	1	0,65	120x150	**100,-**	963-127	72,-
FOB 7K-4NL	5 | 7,5	0,5 | 1	3,61	252x200	**230,-**	963-128	88,-
FOB 10K-3NL	8 | 15	1 | 2	3,61	252x200	**230,-**	963-128	88,-
FOB 30K-3NL	16 | 30	2 | 5	3,61	252x200	**230,-**	963-128	88,-

IP protected bench scale KERN FFN-N

Robust, space-saving bench scale, stainless steel and IP65 protected, also with EC type approval [M]

Features

- **1** **Ideal for the food industry**
- **2** **Ideal for robust industrial appl.**
- **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:** Protected against dust and water splashes (only when using rechargeable battery pack)

- Your support in an **HACCP**-compliant quality system

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions stainless steel, WxD 230x190 mm
- Overall dimensions 230x300x130 mm
- Rechargeable battery pack internal, standard, operating time up to 50 h without backlight, charging time approx. 12 h
- Net weight approx. 3,2 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 161, KERN RFS-A02, **€ 50,-**

STANDARD								OPTION	FACTORY
CAL EXT	UNIT	IP 65	INOX	ACCU	230 V	DMS	2 YEARS WARRANTY 1 DAY	DAkkS +3 DAYS	M +3 DAYS only FFN-M

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Price excl. of VAT ex works	Options			
						Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	€	M KERN	€	DAkkS KERN	€
FFN 1K-4N	1,5	0,2	–	–	260,-	–	–	963-127	72,-
FFN 3K0.5IPN	3	0,5	–	–	260,-	–	–	963-127	72,-
FFN 6K1IPN	6	1	–	–	260,-	–	–	963-128	88,-
FFN 15K2IPN	15	2	–	–	260,-	–	–	963-128	88,-
FFN 25K5IPN	25	5	–	–	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.									
FFN 1K-4NM	1,5	0,5	0,5	10	275,-	965-227	55,-	963-127	72,-
FFN 3K1IPM	3	1	1	20	275,-	965-227	55,-	963-127	72,-
FFN 6K2IPM	6	2	2	40	275,-	965-228	55,-	963-128	88,-
FFN 15K5IPM	15	5	5	100	275,-	965-228	55,-	963-128	88,-
FFN 25K10IPM	25	10	10	200	275,-	965-228	55,-	963-128	88,-

NEW New model

IP protected bench scale KERN FXN

NEW
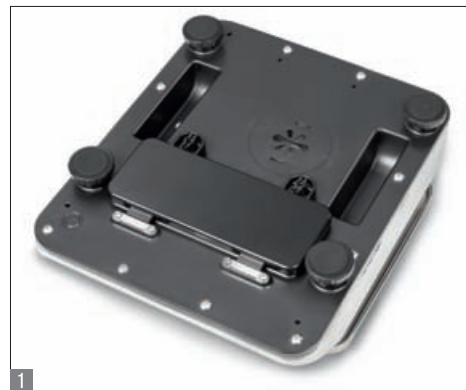
Robust, space-saving bench scale, stainless steel and IP68 protected

Features

- **Ideal for the food industry**
- **Ideal for robust industrial application**
- **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
- Your support in an **HACCP**-compliant quality system

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. 3,5 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 161, KERN RFS-A02, **€ 50,-**

STANDARD

| CAL EXT | PCS | UNIT | TOL | IP 68 | INOX | BATT | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| DAkkS +3 DAYS |

Model	Weighing range [Max]	Readout [d]	Reproducibility	Linearity	Min. piece weight [Counting]	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	kg	g	g	g	g/piece	**€**	**DAkkS** KERN	€
FXN 3K-3	3	1	1	± 2	0,5	**320,-**	963-127	72,-
FXN 6K-3	6	2	2	± 4	1	**320,-**	963-128	88,-
FXN 10K-3	15	5	5	± 10	2	**320,-**	963-128	88,-
FXN 30K-2	30	10	10	± 20	5	**320,-**	963-128	88,-

Stainless steel platform scales KERN SFB · SFB-H

1 KERN SFB

KERN SFB-H

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

Features

- **Ideal for robust industrial application**
- **Scale entirely out of stainless steel**
- **1 Load cell stainless steel**, silicone-coated, IP67
- **2 Display device: IP65** (only when using rechargeable battery pack)
- **3** only SFB-H: **Stand** to elevate display device, standard, for models with weighing plate size
  300x240 mm: height of stand approx. 200 mm
  400x300 mm: height of stand approx. 400 mm, **1**, enlarged picture

- Your support in an **HACCP**-compliant quality system

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
- Permissible ambient temperature SFB: 0 °C / 40 °C, SFB-M: -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,-**
- Only SFB: **Stand** to elevate display device, to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01, **€ 70,-**
- **Suitable printers** an extensive accessories range, see page 157 ff.
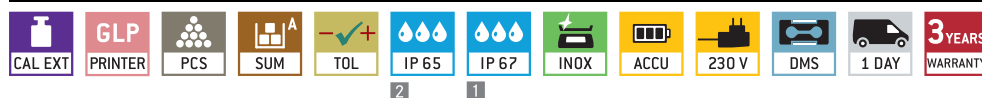
STANDARD												OPTION	FACTORY	
CAL EXT	GLP PRINTER	PCS	SUM A	TOL	IP 65	IP 67	INOX	ACCU	230 V	DMS	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS	RS 232	M +3 DAYS only SFB-M/SFB-HM
					2	**1**								

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		DAkkS Calibr. Certificate	
								M KERN	€	DAkkS KERN	€
SFB 50K-3XL	50	5	–	–	15	500x400	**900,-**	–	–	963-128	88,-
SFB 100K-2L	100	10	–	–	15	500x400	**840,-**	–	–	963-129	105,-
SFB 100K-2XL	100	10	–	–	24,5	650x500	**1160,-**	–	–	963-129	105,-
SFB 200K-2XL	200	20	–	–	24,5	650x500	**1160,-**	–	–	963-129	105,-
with elevated display											
SFB 10K1HIP	10	1	–	–	9	300x240	**710,-**	–	–	963-128	88,-
SFB 20K2HIP	20	2	–	–	9	300x240	**710,-**	–	–	963-128	88,-
SFB 50K5HIP	50	5	–	–	9	300x240	**710,-**	–	–	963-128	88,-
SFB 50K5LHIP	50	5	–	–	14	400x300	**740,-**	–	–	963-128	88,-
SFB 100K10HIP	100	10	–	–	14	400x300	**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.											
SFB 60K-2XLM	60	20	20	400	15	500x400	**930,-**	965-229	93,-	963-129	105,-
SFB 100K-2LM	150	50	50	1000	15	500x400	**830,-** 🔻	965-229	93,-	963-129	105,-
SFB 100K-2XLM	150	50	50	1000	24,5	650x500	**1170,-**	965-229	93,-	963-129	105,-
SFB 300K-1LM	300	100	100	2000	24,5	650x500	**1170,-**	965-229	93,-	963-129	105,-
with elevated display											
SFB 15K5HIPM	15	5	5	100	9	300x240	**720,-**	965-228	55,-	963-128	88,-
SFB 30K10HIPM	30	10	10	200	9	300x240	**720,-**	965-228	55,-	963-128	88,-
SFB 60K20HIPM	60	20	20	400	9	300x240	**830,-**	965-229	93,-	963-129	105,-
SFB 60K20LHIPM	60	20	20	400	14	400x300	**860,-**	965-229	93,-	963-129	105,-
SFB 120K50HIPM*	120	50	50	1000	14	400x300	**860,-**	965-229	93,-	963-129	105,-
SFB 100K-2HM	150	50	50	1000	14	400x300	**870,-**	965-229	93,-	963-129	105,-

! * ONLY WHILE STOCKS LAST   🔻 Price reduction

Platform scale KERN SXS

NEW PREMIUM ★★★

1

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

Features

- **Ideal for robust industrial application**
- 1 Substruction in wing design, extremely resistant to bending, stainless steel
- 2 **Scale entirely out of stainless steel** with IP68 protected display device, very high class of protection against dust and water. Ideal for harsh environmental conditions, industrial applications or the food industry, hygienic and easy to clean. Display device with integrated power supply. Wall mount standard. For further details on the KERN KXS-TM display device, see page 136

- 3 **Load cell stainless steel**, silicone-coated, IP67
- **Superior display size:** digit height 55 mm. Bright backlight for easy reading of weight, 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 and PC or printer is made easier
- **ESD drain to protect against electrostatic discharge** e.g. for electrostatically-charged weighing items or people working 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 500x400x135 mm, D 650x500x133.5 mm
- Dimensions of display device WxDxH 232x170x80 mm
- Cable length of display device approx. 2,5 m
- **Rechargeable battery pack internal** standard, operating time up to 80 h without backlight, charging time approx. 12 h

Accessories

- **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, **€ 80,-**
- **Bluetooth data interface** for wireless data transfer to PC, must be ordered at purchase, KERN KXS-A02, **€ 100,-**
- **Foot switch**, must be ordered at purchase, details see page 160, KERN KXS-A03, **€ 65,-**
- **Suitable printers** see page 157 ff.

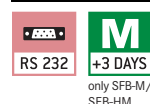| STANDARD											OPTION	FACTORY			
CAL EXT	GLP PRINTER	PCS	TOL	MOVE	IP 67	IP 68	INOX	ACCU	230 V	DMS	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS	RS 232	RS 485	BT	M +3 DAYS
					3	2									

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Options			
								Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	kg		€	M KERN	€	DAkkS KERN	€
SXS 6K-3M	3 | 6	1 | 2	1 | 2	20 | 40	5,1	A	**630,-**	965-228	55,-	963-128	88,-
SXS 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	5,1	A	**640,-**	965-228	55,-	963-128	88,-
SXS 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	11,8	B	**770,-**	965-228	55,-	963-128	88,-
SXS 30K-2M	15 | 30	5 | 10	5 | 10	100 | 200	11,8	B	**740,-**	965-228	55,-	963-128	88,-
SXS 30K-2LM	15 | 30	5 | 10	5 | 10	100 | 200	20,8	C	**1050,-**	965-228	55,-	963-128	88,-
SXS 60K-2M	30 | 60	10 | 20	10 | 20	200 | 400	11,8	B	**750,-**	965-229	93,-	963-129	105,-
SXS 60K-2LM	30 | 60	10 | 20	10 | 20	200 | 400	20,8	C	**1050,-**	965-229	93,-	963-129	105,-
SXS 100K-2M	60 | 150	20 | 50	20 | 50	400 | 1000	20,8	C	**1050,-**	965-229	93,-	963-129	105,-
SXS 100K-2LM	60 | 150	20 | 50	20 | 50	400 | 1000	36,5	D	**1290,-**	965-229	93,-	963-129	105,-
SXS 300K-2M	150 | 300	50 | 100	50 | 100	1000 | 2000	36,5	D	**1290,-**	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.											

ATEX scales

IEX	78

Robust platform scale with ATEX approval for use in potentially explosive atmospheres

OEX	79

Robust stainless steel platform scale with ATEX approval for use in potentially explosive atmospheres

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.

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 concentrations 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, i.e. in all kinds of refineries.

Your KERN product specialist will be happy to help:

Taras Mikitisin
Product specialist ATEX scales

Tel.   +49 [0] 7433 9933 - 143
Fax   +49 [0] 7433 9933 - 29143
mikitisin@kern-sohn.com

KERN ATEX scales conform to these protection classes: II 2 G Ex IIB T4 (KERN IEX) and II 2 G Ex IIC T4 (KERN OEX)

II 2 G Ex ib IIC T4

Device group
I: Devices to be used in mining
II: Devices to be used in other potentially explosive atmospheres

Device category
1: Can be used in Zone 0 or 20
2: Can be used in Zone 1 or 21
3: Can be used in Zone 2 or 22

Substance group
G: Gas
D: Dust

Type of ignition protection
q: Sand encapsulation
d: Flame proof enclosure
e: Increased safety
ia: Intrinsic safety (required for Zone 1)
ib: Intrinsic safety (required for Zone 1 and 2)
m: Cast enclosure
n: Normal operation under normal operating conditions (only for Zone 2 and 22)
nA: non-sparking
nC: non-incendive or hermetically sealed housing
nR: gas-proof encapsulation
nL: energy-limited circuit

Temperature classes Max. surface temperature of the apparatus	Ignition temperature of gas
T1: 450 °C	T1: > 450 °C
T2: 300 °C	T2: > 300 °C
T3: 200 °C	T3: > 200 °C
T4: 135 °C	T4: > 135 °C
T5: 100 °C	T5: > 100 °C
T6: 85 °C	T6: > 85 °C

Explosion class
for apparatus, which is to be operated in the gas-air mixture
IIA: Propane (T1), Benzene (T3)
IIB: Ethylene (T2), municipal Gas supply (T1)
IIC: 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	M CAL EXT	PCS	TOL	IP	ATEX	INOX
2 g	6 kg	IEX 6K-3M	2150,-	78	20	O ●	●	●	●	● IIB	●
2 g	6 kg	OEX 6K-3M	4330,-	79	20	O ●	●	●	●	● IIC	●
2 g	6 kg	OEX 6K-3HM	4330,-	79	20	O ●	●	●	●	● IIC	●
5 g	15 kg	IEX 10K-3M	2150,-	78	20	O ●	●	●	●	● IIB	●
5 g	15 kg	OEX 10K-3M	4330,-	79	20	O ●	●	●	●	● IIC	●
5 g	15 kg	OEX 10K-3HM	4330,-	79	20	O ●	●	●	●	● IIC	●
10 g	30 kg	IEX 30K-2M	2450,-	78	20	O ●	●	●	●	● IIB	●
10 g	30 kg	OEX 30K-2M	4730,-	79	20	O ●	●	●	●	● IIC	●
10 g	30 kg	OEX 30K-2HM	4730,-	79	20	O ●	●	●	●	● IIC	●
20 g	60 kg	IEX 60K-2M	2450,-	78	20	O ●	●	●	●	● IIB	●
20 g	60 kg	OEX 60K-2M	5690,-	79	20	O ●	●	●	●	● IIC	●
20 g	60 kg	OEX 60K-2HM	5690,-	79	20	O ●	●	●	●	● IIC	●
50 g	150 kg	IEX 100K-1M	3150,-	78	20	O ●	●	●	●	● IIB	●
50 g	150 kg	OEX 100K-1M	5690,-	79	20	O ●	●	●	●	● IIC	●
50 g	150 kg	OEX 100K-1HM	5690,-	79	20	O ●	●	●	●	● IIC	●

For an explanation on the pictos, see the front flap

● = Standard   O = Option

ATEX scale KERN IEX

NEW

3

4

Robust platform scale with ATEX approval for use in potentially explosive atmospheres

Features

- The range has European ATEX approval:
  II 2 G IIB T4 for use in hazardous industrial environments of zone 1, where there is an explosion danger, e.g. due to handling of flammable substances present in high concentrations in the form of gas, mist or vapour
- Especially suitable for:
  - Varnish industry
  - Chemistry/Petrochemical industry
  - Cosmetics production
  - Plastics production
- **Stainless steel weighing plate**, substruction in wing design, steel, lacquered
- 1 Load cells: Aluminium, silicone-coated, protected against dust and water splashes (IP65)

- 2 Robust stainless steel display device, protected against dust and water splashes (IP67)
- **Benchtop stand/wall mount** for display device as standard

Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxDxH
  A 300x300x70 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

4 Power supply through a power source outside the explosion-proof area. 20 m long cable with 3 screw coupling to fix the display device and integrated mains adapter. When ordering your scale, please state whether you require an EU or UK mains adapter, as this cannot be retrofitted.

- Permissible ambient temperature
  -10 °C / 40 °C

STANDARD									OPTION	FACTORY	
CAL EXT	PCS	TOL	IP 65	IP 67	ATEX	INOX	DMS	20 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS	230 V	M +3 DAYS
			1	2							

Model	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		DAkkS Calibr. Certificate	
								M KERN	€	DAkkS KERN	€
KERN											
IEX 6K-3M	6	2	2	40	9,5	A	2150,-	965-228	55,-	963-128	88,-
IEX 10K-3M	15	5	5	100	9,5	A	2150,-	965-228	55,-	963-128	88,-
IEX 30K-2M	30	10	10	200	18,5	B	2450,-	965-228	55,-	963-128	88,-
IEX 60K-2M	60	20	20	400	18,5	B	2450,-	965-229	93,-	963-129	105,-
IEX 100K-1M	150	50	50	1000	18,5	B	3150,-	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.											

07

ATEX scale KERN OEX

KERN OEX–HM

NEW · PREMIUM ★★★

1 Power supply through a power source outside the explosion-proof area. 20 m long cable with screw coupling to fix the display device and integrated mains adapter. When ordering your balance, please state whether you require an EU or UK mains adapter, as this cannot be retrofitted.

Robust stainless steel platform scale with ATEX approval for use in potentially explosive atmospheres

Features

- The range has European ATEX approval: II 2 G IIB T4 for use in hazardous industrial environments of Zones 1 and 2, where there is explosion danger, e.g. due to handling of flammable substances, present in high concentrations in the form of gas, mist or vapour
- Especially suitable for:
  - Paint industry
  - Chemistry/Petrochemical industry
  - Cosmetics production
  - Plastics production

- **Scale entirely out of stainless steel** with IP67 protected display device
- **Load cells, stainless steel, silicone-coated** protection against dust and water splashes (IP67)

Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxDxH
  - A 250x300x155 mm
  - B 410x410x155 mm
  - C 500x500x155 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 · 20 DAYS · 3 YEARS WARRANTY

OPTION: DAkkS +3 DAYS

FACTORY: 230 V · 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 M KERN	€	DAkkS Calibr. Certificate DAkkS 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.
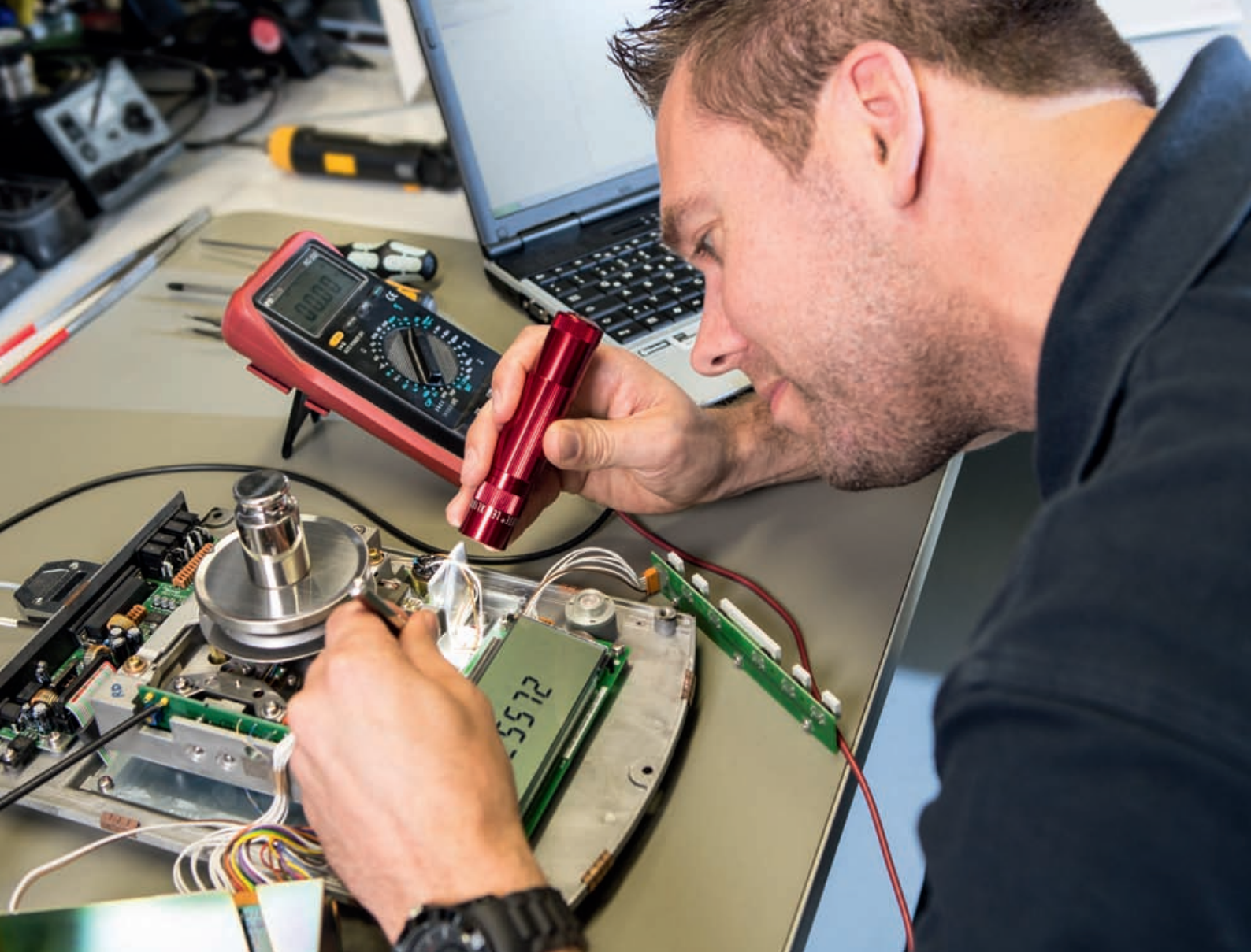
KERN Precision and tradition for over 170 years

For further products from our diverse
KERN range please see www.kern-sohn.com

www.kern-sohn.com

Scales to meet Pre-packaging legislation

08

81

FKTF	82

Intuitive touchscreen bench scale with extensive statistics functionality for sample control, in accordance with pre-packaging legislation

---

Pre-packaging legislation

For scales which are intended for use with pre-packaged products, § 22 of the pre-packaging legislation is applicable. It says that:

(1) Pre-packed goods which are labelled by weight or volume and with the same nominal contents may only be produced commercially in such way that the content at the point of manufacture

a. does not, on average, remain below the nominal content and
b. does not exceed the values specified in clause 3 for the negative deviation from the nominal content.

(2) Pre-packed goods labelled by weight or volume and with the same nominal contents may be treated commercially within the scope of this ordinance, if the content at the point of manufacture

a. does not, on average, remain below the nominal content and
b. does not exceed the values specified in clause 3 for the negative deviation from the nominal content.

(3) The permitted negative deviations are:

Nominal contents Q_N in g or ml	Permitted negative deviation	
	in % of Q_N	in g or ml
5 to 50	9	–
50 to 100	–	4.5
100 to 200	4.5	–
200 to 300	–	9
300 to 500	3	–
500 to 1.000	–	15
1.000 to 10.000	1.5	–

When using this table, the values calculated in weight or volume units for the permitted negative deviation, given as a percentage, are rounded to the nearest 0.1 gram or 0.1 millilitre. Negative deviations may be exceeded by a maximum of 2 percent of the pre-packed goods.

(4) Pre-packed goods are labelled by weight or volume and with the same nominal contents may only be put on the market commercially for the first time, if the negative deviation from the nominal content does not exceed twice the values specified in the table of clause 3.

These rules give the manufacturers of pre-packed products clear guidelines for production control and give the consumer reassurance that the actual content of such products is consistent with the information printed on the goods by the manufacturer.

Pre-packed products, which are produced and tested in accordance with the pre-packaging legislation, generally carry this marking on their label: ℮

Scales which are to be used for the control of pre-packed goods must come with type approval as well as verification.

The selection of the non-automatic scale is based, on the hand, on to the required maximum load, as well as on largest permitted verification value [e] for the respective nominal contents:

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
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

Finally, it is to be observed that for scales used for pre-packed goods control, in many European countries the re-verification intervals are shorter than for verified scales used in standard applications, usually one year.

Source: 76 / 211 / EEC

Your KERN product specialist will be happy to help:

Sven Göggel
Product specialist Scales to meet Pre-packaging legislation

Tel.   +49 [0] 7433 9933 - 189
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
0,5 g	3 kg	FKTF 3K0.5LM	1050,-	82	1	○	●	●	●	●
1 g	6 kg	FKTF 6K1LM	1050,-	82	1	○	●	●	●	●
2 g	12 kg	FKTF 12K2LM	1050,-	82	1	○	●	●	●	●
5 g	30 kg	FKTF 30K5LM	1050,-	82	1	○	●	●	●	●
10 g	60 kg	FKTF 60K10LM	1050,-	82	1	○	●	●	●	●

For an explanation on the pictos, see the front flap

● = Standard   ○ = Option

Pre-packaged Products Control Scale KERN FKTF

PREMIUM
★★★

Intuitive touchscreen bench scale with extensive statistics functionality for sample control, in accordance with pre-packaging legislation

Wide range of options for sample control
such as, e.g., sample checking and analysis of with an average tare value without destroying the sample etc.

... or sample control which will lead to sample destruction

Printout of daily and weekly statistics from up to 45 series of measurements
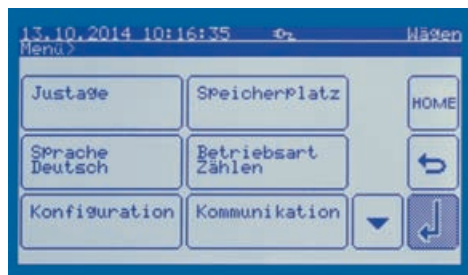
Clear menu structure with plain text labelled keys and touch-sensitive display
The menu and processes are self-explanatory. This reduces training times, avoids operating errors and in this way, ensures more efficient functionality
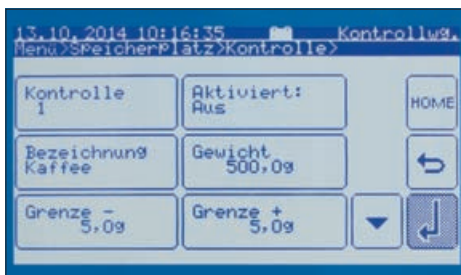
400 item memories for master data such as PRE-TARE (packaging weight), free limit values, user name, machine number, batch description etc.

Easy input of text and values
e.g. item descriptions, user name, packaging weights etc. using large keypad
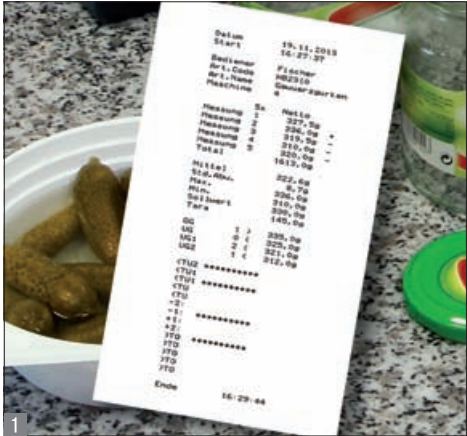
For more information, please visit www.kern-sohn.com/en/FKTF · Order hotline +49 [0] 7433 9933-0

KERN FKTF

1

Features

- **Innovative touchscreen**: touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading
- **Comfortable entering** of article master data, free limit values, username etc. by a large-area keypad
- **Complete analysis** of TO, TU, TU1 and TU2 including values not meeting the limits
- Possible print-out of sample analysis and statistics
- Scale can be protected from unauthorized use by means of a **password**
- **Hook for underfloor weighing** of hanging loads, standard

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 retrofitted, KERN FKB-A02, **€ 25,-**
- **Matrix needle printer**, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, **€ 330,-**
- **Suitable printers** see page 157 ff.

Modes
① Weighing
② Statistical analysis according to pre-packaging legislation

Functions
- Capacity display with ①
- PRE-TARE from the memory unit with ① and ②
- Input of item or batch description, operator etc. with ②
- Date/time with ① and ②
- 400 item memories with master data such as TU, TO, TU1, TU2 with ②
- Sampling tests according to weight and volume with ②
- GLP printout with ① and ②
- Analysis of samples with average tare value with ②
- Analysis of samples with individual tare first (in accordance with pre-packaging legislation) with ②
- Analysis of samples with differing tare values, followed by destructive analysis (in accordance with pre-packaging legislation) with ①
- Analysis of samples in accordance with the limits specified by pre-packaging legislation for TU1 + TU2 with ②
- Analysis of samples based on free limits for TO, TU, TU1 + TU2 with ②
- Daily statistics from 45 measurement series with ②
- Weekly statistics from 45 measurement series with ②

08

STANDARD | | | | | | | | OPTION | FACTORY

| CAL EXT | MEMORY | RS 232 | GLP INTERN | BATT | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | DAkkS +3 DAYS | M +7 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		DAkkS Calibr. Certificate	
						KERN	€	DAkkS KERN	€
FKTF 3K0.5LM	3	0,5	0,5	10	**1050,-**	950-127	55,-	963-127	72,-
FKTF 6K1LM	6	1	1	20	**1050,-**	950-128	55,-	963-128	88,-
FKTF 12K2LM	12	2	2	40	**1050,-**	950-128	55,-	963-128	88,-
FKTF 30K5LM	30	5	5	100	**1050,-**	950-128	55,-	963-128	88,-
FKTF 60K10LM	60	10	10	200	**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.									

Price computing scales

RFB	85
Retail scale with protection against dust and water splashes, ideal for mobile applications	

RPB	86
Retail scale with memories for item prices	

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 €

KERN entry level retail scales have direct access keys (➜ *PLU*), to which a sales item with its relevant price can be assigned to. 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 191 – 192*

Your KERN product specialist will be happy to help:

Tobias Baiker
Product specialist
Price computing scales

Tel.   +49 [0] 7433 9933 - 118
Fax   +49 [0] 7433 9933 - 29118
tobias.baiker@kern-sohn.com

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	IP	ACCU
						For an explanation on the pictos, see the front flap					
1 g	3 kg	**RFB 3K1IPM**	**280,-**	85	1	○	●	●		●	●
1 | 2 g	3 | 6 kg	**RPB 6K1DM**	**230,-**	86	1	○	●	●	●		○
1 | 2 g	3 | 6 kg	**RPB 6K1DHM**	**250,-**	86	1	○	●	●	●		○
2 g	6 kg	**RFB 6K2IPM**	**280,-**	85	1	○	●	●		●	●
2 | 5 g	6 | 15 kg	**RPB 15K2DM**	**230,-**	86	1	○	●	●	●		○
2 | 5 g	6 | 15 kg	**RPB 15K2DHM**	**250,-**	86	1	○	●	●	●		○
5 g	15 kg	**RFB 15K5IPM**	**280,-**	85	1	○	●	●		●	●
5 | 10 g	15 | 30 kg	**RPB 30K5DM**	**230,-**	86	1	○	●	●	●		○
5 | 10 g	15 | 30 kg	**RPB 30K5DHM**	**250,-**	86	1	○	●	●	●		○

● = Standard   ○ = Option

Price computing scale KERN RFB

Retail scale with protection against dust and water splashes, ideal for mobile applications

Note: In commercial trade, official verification duties exist

Features

- **1 IP65:** Protected against dust and water splashes, only when using rechargeable battery pack
- **Soil-resistant construction** with water channels at the edge of the housing and sealing rings over the upper housing inlets
- **2 Second display** on the rear of the scale
- **Three displays** for: weight (verifiable), unit price, total price
- **Unit price can be switched** from €/kg to €/100 g
- **4 direct price keys (PLU)** for frequently recurring article prices
- **High mobility** thanks to its rechargeable batteries and low weight
- **Compact size,** practical for small spaces

Technical data

- Large backlit LCD displays, digit height 24 mm
- Weighing plate dimensions WxD 260x200 mm
- Overall dimensions WxDxH 286x316x126 mm
- Rechargeable battery pack internal, standard, operating time up to 60 h, charging time approx. 12 h
- Net weight approx. 4,2 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be retrofitted, KERN RFB-A01, **€ 25,-**
- **Tare pan made of stainless steel**, ideal for weighing loose fruit and vegetables, WxDxH 370x240x20 mm, for details see page 161, KERN RFS-A02, **€ 50,-**
- **3 Sturdy transport case** to protect and store the scale, internal dimensions balance compartment WxDxH 330x290x117 mm, dimensions WxDxH 510x360x220 mm, for details see page 162, KERN RFB-A02, **€ 95,-**

STANDARD								OPTION	FACTORY
CAL EXT	MEMORY	UNIT	IP 65	ACCU	230 V	DMS	1 DAY	2 YEARS WARRANTY	DAkkS +3 DAYS	M +3 DAYS

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Reproduci- bility	Price excl. of VAT ex works	Options			
							Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	g	€	M KERN	€	DAkkS KERN	€
RFB 3K1IPM	3	1	1	20	1	**280,-**	965-227	55,-	963-127	72,-
RFB 6K2IPM	6	2	2	40	2	**280,-**	965-228	55,-	963-128	88,-
RFB 15K5IPM	15	5	5	100	5	**280,-**	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.										

! ONLY WHILE STOCKS LAST

Price computing scale KERN RPB

Retail scale with memories for item prices

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

Note: In commercial trade, official verification duties exist

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 scale, 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. 3,3 kg,
- RPB-H: approx. 4,7 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** standard, can be retrofitted, KERN CFS-A02, **€ 25,-**
- **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 from stainless steel,** ideal for weighing loose fruit and vegetables, WxDxH 370x240x20 mm, for details see page 161, KERN RFS-A02, **€ 50,-**

STANDARD						OPTION		FACTORY
CAL EXT	MEMORY	RS 232	230 V	DMS	1 DAY	2 YEARS WARRANTY	ACCU / DAkkS +3 DAYS	M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options Verification M KERN	€	DAkkS Calibr. Certificate DAkkS KERN	€
Dual-range scale switches automatically to the next largest weighing range [Max] and readout [d].											
RPB 6K1DM	3 | 6	1 | 2	1 | 2	20	1 | 2	± 1 | ± 2	230,-	965-228	55,-	963-128	88,-
RPB 15K2DM	6 | 15	2 | 5	2 | 5	40	2 | 5	± 2 | ± 5	230,-	965-228	55,-	963-128	88,-
RPB 30K5DM	15 | 30	5 | 10	5 | 10	100	5 | 10	± 5 | ± 10	230,-	965-228	55,-	963-128	88,-
with elevated display											
RPB 6K1DHM	3 | 6	1 | 2	1 | 2	20	1 | 2	± 1 | ± 2	250,-	965-228	55,-	963-128	88,-
RPB 15K2DHM	6 | 15	2 | 5	2 | 5	40	2 | 5	± 2 | ± 5	250,-	965-228	55,-	963-128	88,-
RPB 30K5DHM	15 | 30	5 | 10	5 | 10	100	5 | 10	± 5 | ± 10	250,-	965-228	55,-	963-128	88,-

Note: For applications that require verification, please order verificati on 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.

SMT	89
Innovative stocktaking scale with touchscreen to efficiently measure beverage residuals in bottles and information transfer to the PC	

CXB-N	90
Entry level model in professional counting, also with EC type approval [M], counting resolution of 30,000 points	

CPB	91
Professional model, also with EC type approval [M], counting resolution up to 60,000 points	

CFS	92
Professional, high-resolution counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points	

CKE	93
Easy to use, self-explanatory counting scale with laboratory accuracy, counting resolution up to 360,000 points	

IFS	94
Industrial counting scale with convenient keypad for easy data entry - now also with EC type approval [M], counting resolution up to 75,000 points	

CDS	95
Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points	

CCS	96
Counting system to count very small parts in largest quantities, counting resolution up to 999,999 points	

FKA	98
Stocktaking scale with touchscreen to quickly measure the quantity of stock items and information transfer to the PC	

FKC	99
High-resolution stocktaking counting system with touchscreen to quickly measure the quantity of stock items and information transfer to the PC	

Counting, doing it right!

For counting correctly a few parameters need to be taken account when selecting a counting scale.

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 you choose a counting scale with a minimum piece weight is smaller than the weight 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 191 – 192*

Your KERN product specialist will be happy to help:

Tanja Jetter
Product specialist Counting scales

Tel.   +49 [0] 7433 9933 - 168
Fax   +49 [0] 7433 9933 - 29168
tanja.jetter@kern-sohn.com

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
0,001 g	0,3 kg	CFS 300-3	350,-	92	1		●	●	●	●	●	○
0,001 g	0,36 kg	CKE 360-3	370,-	93	1		●		●		●	○
0,001 g	6 kg	CCS 6K-6	670,-	96	2		●	●	●	●	●	○
0,001 g	15 kg	CCS 10K-6	710,-	96	2		●	●	●	●	●	○
0,001 g	36 kg	FKC 30K-6	1280,-	99	2		●	●	●	●	●	○
0,001 g	65 kg	FKC 60K-6	1280,-	99	2		●	●	●	●	●	○
0,01 g	2 kg	CKE 2000-2	350,-	93	1		●		●		●	○
0,01 g	3 kg	CFS 3K-5	290,-	92	1		●	●	●	●	●	○
0,01 g	3,6 kg	CKE 3600-2	370,-	93	1		●		●		●	○
0,01 g	30 kg	CCS 30K0.01	580,-	96	2		●	●	●	●	●	○
0,01 g	60 kg	CCS 60K0.01	580,-	96	2		●	●	●	●	●	○
0,01 g	150 kg	CCS 150K0.01	650,-	96	2		●	●	●	●	●	○
0,01 g	300 kg	CCS 300K0.01	840,-	96	2		●	●	●	●	●	○
0,01 g	36 kg	FKC 30K-5	1260,-	99	2		●	●	●	●	●	○
0,01 g	60 kg	CCS 60K0.01L	660,-	96	1		●	●	●	●	●	○
0,01 g	65 kg	FKC 60K-5	1260,-	99	2		●	●	●	●	●	○
0,01 g	150 g	CCS 150K0.01L	850,-	96	1		●	●	●	●	●	○
0,01 g	600 kg	CCS 600K-2L	1850,-	96	1		●	●	●	●	●	○
0,01 g	600 kg	CCS 600K-2	1450,-	96	2		●	●	●	●	●	○
0,01 g	3000 kg	CCS 3T-1L	1990,-	96	1		●	●	●	●	●	○
0,02 g	4 kg	CDS 4K0.02	560,-	95	1		●		●		●	○
0,02 g	6 kg	CKE 6K0.02	500,-	93	1		●		●		●	○
0,05 g	8 kg	CKE 8K0.05	460,-	93	1		●		●		●	○
0,05 g	15 kg	CDS 15K0.05	490,-	95	1		●		●		●	○
0,05 g	16 kg	CKE 16K0.05	560,-	93	1		●		●		●	○
0,1 g	6 kg	CPB 6K0.1N	225,-	91	1		●		●		●	○
0,1 g	6 kg	CFS 6K0.1	270,-	92	1		●	●	●	●	●	○
0,1 g	16 kg	CKE 16K0.1	460,-	93	1		●		●		●	○
0,1 g	16 kg	CDS 16K0.1	460,-	95	1		●		●		●	○
0,1 g	30 kg	CDS 30K0.1	560,-	95	1		●		●		●	○
0,1 g	30 kg	CCS 30K0.1	570,-	96	2		●	●	●	●	●	○
0,1 g	36 kg	CKE 36K0.1	510,-	93	1		●		●		●	○
0,1 g	36 kg	FKA 30K-4	950,-	98	1		●	●	●		●	○
0,1 g	60 kg	CCS 60K0.1	550,-	96	2		●	●	●	●	●	○
0,1 g	60 kg	CCS 60K0.1L	610,-	96	1		●	●	●	●	●	○
0,1 g	150 kg	CCS 150K0.1	610,-	96	2		●	●	●	●	●	○
0,1 g	150 kg	CCS 150K0.1L	820,-	96	1		●	●	●	●	●	○
0,1 g	300 kg	CCS 300K0.1	810,-	96	2		●	●	●	●	●	○
0,1 g	1500 kg	CCS 1T-1	1390,-	96	2		●	●	●	●	●	○
0,1 g	1500 kg	CCS 1T-1L	1890,-	96	1		●	●	●	●	●	○
0,1 g	3000 kg	CCS 3T-1	1950,-	96	2		●	●	●	●	●	○
0,1 | 0,2 g	6 | 15 kg	IFS 10K-4	370,-	94	1		●		●		●	○
0,2 g	3 kg	CXB 3K0.2	220,-	90	1		●				●	●
0,2 g	15 kg	CPB 15K0.2N	225,-	91	1		●		●		●	○
0,2 g	15 kg	CFS 15K0.2	270,-	92	1		●	●	●	●	●	○
0,2 g	36 kg	CDS 36K0.2L	650,-	95	1		●		●		●	○
0,2 g	60 kg	CDS 60K0.2	660,-	95	1		●		●		●	○
0,2 g	65 kg	CKE 65K0.2	510,-	93	1		●		●		●	○
0,2 g	65 kg	FKA 60K-4	950,-	98	1		●	●	●		●	○
0,2 | 0,5 g	12 | 30 kg	IFS 30K0.2DL	430,-	94	1		●		●		●	○
0,5 g	6 kg	CXB 6K0.5	220,-	90	1		●				●	●
0,5 g	30 kg	CPB 30K0.5N	225,-	91	1		●		●		●	○
0,5 g	30 kg	CFS 30K0.5	270,-	92	1		●	●	●	●	●	○
0,5 g	65 kg	CKE 65K0.5	480,-	93	1		●		●		●	○
0,5 g	100 kg	CDS 100K0.5	660,-	95	1		●		●		●	○
0,5 | 1 g	30 | 60 kg	IFS 60K0.5D	430,-	94	1		●		●		●	○
1 g	3 kg	CXB 3K1NM	235,-	90	1	○	●				●	●
1 g	10 kg	SMT 10K-3	950,-	89	1		●	●				●
1 g	15 kg	CXB 15K1	220,-	90	1		●				●	●
1 g	50 kg	CFS 50K-3	290,-	92	1		●	●	●	●	●	○
1 | 2 g	3 | 6 kg	CPB 6K1DM	225,-	91	1	○	●		●		●	○
1 | 2 g	3 | 6 kg	IFS 6K-3M	410,-	94	1	○	●		●		●	○
1 | 2 g	75 | 150 kg	IFS 100K-3	560,-	94	1		●		●		●	○
2 g	6 kg	CXB 6K2NM	235,-	90	1	○	●				●	●
2 g	30 kg	CXB 30K2	220,-	90	1		●				●	●
2 | 5 g	6 | 15 kg	CPB 15K2DM	225,-	91	1	○	●		●		●	○
2 | 5 g	6 | 15 kg	IFS 10K-3M	410,-	94	1	○	●		●		●	○
2 | 5 g	150 | 300 kg	IFS 300K-3	700,-	94	1		●		●		●	○
5 g	15 kg	CXB 15K5NM	235,-	90	1	○	●				●	●
5 | 10 g	15 | 30 kg	CPB 30K5DM	225,-	91	1	○	●		●		●	○
5 | 10 g	15 | 30 kg	IFS 30K-3M	460,-	94	1	○	●		●		●	●
10 g	30 kg	CXB 30K10NM	235,-	90	1	○	●				●	●
10 | 20 g	30 | 60 kg	IFS 60K-2M	460,-	94	1	○	●		●		●	○
20 | 50 g	60 | 150 kg	IFS 100K-2M	550,-	94	1	○	●		●		●	○
50 | 100 g	150 | 300 kg	IFS 300K-2M	460,-	94	1	○	●		●		●	○

● = Standard   ○ = Option

10

Bottle stocktaking scale KERN SMT

Innovative stocktaking scale with touchscreen to efficiently measure beverage residuals in bottles and information transfer to the PC

Features

- **Your advantage:** Less time consuming, compared with the measuring method used up to now
  - Up to now: Generally, the content of a bottle is established by a visual check, i.e. 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, i.e. 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

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 retrofitted, KERN 572-A02, **€ 25,-**
- **3 Volume kit** for determining the specific weight of beverages, scope of delivery: precision balance KERN EMB 600-2, beaker, pipette, KERN SMT-A05, **€ 350,-**

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

- **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

CAL EXT	MEMORY	RS 232	GLP INTERN	UNIT	ACCU	230 V	DMS	1 DAY	3 YEARS WARRANTY

OPTION

DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
						DAkkS KERN	€
SMT 10K-3	10000	1	0,5	± 0,5	950,-	963-128	88,-

! Laptop and decorative items not within the scope of delivery

10

Counting scale KERN CXB

Note: Official verification duty for commercial trade

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 gradually improves the average value of the piece weight
- **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
- **Soil-resistant construction** with water channels at the edge of the housing and sealing rings over the upper housing inlets
- **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

- Weiging 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 retrofitted, KERN CXB-A01, **€ 25,-**

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

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Min. piece weight [Counting]	Counting resolution	Price excl. of VAT ex works	Options			
								Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	g/piece	Points	€	M KERN	€	DAkkS KERN	€
CXB 3K0.2	3	0,2	–	–	0,1	30000	**220,-**	–	–	963-127	72,-
CXB 6K0.5	6	0,5	–	–	0,2	30000	**220,-**	–	–	963-128	88,-
CXB 15K1	15	1	–	–	0,5	30000	**220,-**	–	–	963-128	88,-
CXB 30K2	30	2	–	–	1	30000	**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.											
CXB 3K1NM	3	1	1	20	0,1	30000	**235,-**	965-227	55,-	963-127	72,-
CXB 6K2NM	6	2	2	40	0,2	30000	**235,-**	965-228	55,-	963-128	88,-
CXB 15K5NM	15	5	5	100	0,5	30000	**235,-**	965-228	55,-	963-128	88,-
CXB 30K10NM	30	10	10	200	1	30000	**235,-**	965-228	55,-	963-128	88,-

NEW New model

Counting scale KERN CPB

Note: Official verification duty for commercial trade

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

Features

- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for total weight (verifiable), piece weight, total count
- **Counting results memory:** adds up all individual piece counts, result is shown in total weight and total pieces
- **Audible Fill-to-target:** target quantity or target weight can be programmed, e.g. for checkweighing. When the target value is reached, a signal will sound

- **1 High mobility:** thanks to battery operation (optional), compact, flat construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department, ...)

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 approx. 3,3 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover**, KERN CFS-A02, **€ 25,-**
- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, can be retrofitted, KERN GAB-A04, **€ 40,-**
- **2 Signal lamp** for visual support of weighing with tolerance range, for details see page 160, 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 160, KERN CFS-A04, **€ 35,-**
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD

| CAL EXT | RS 232 | PCS | SUM | TOL | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| ACCU | DAkkS +3 DAYS |

FACTORY

| M +3 DAYS only CPB-DM |

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Min. piece weight [Counting]	Price excl. of VAT ex works	Option			
							Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	g/piece	€	M⫿ KERN	€	DAkkS KERN	€
CPB 6K0.1N	6	0,1	–	–	0,1	**225,-**	–	–	963-128	88,-
CPB 15K0.2N	15	0,2	–	–	0,25	**225,-**	–	–	963-128	88,-
CPB 30K0.5N	30	0,5	–	–	0,5	**225,-**	–	–	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 scale switches automatically to the next largest weighing range [Max] and readout [d].										
CPB 6K1DM	3 | 6	1 | 2	1 | 2	20	0,1	**225,-**	965-228	55,-	963-128	88,-
CPB 15K2DM	6 | 15	2 | 5	2 | 5	40	0,25	**225,-**	965-228	55,-	963-128	88,-
CPB 30K5DM	15 | 30	5 | 10	5 | 10	100	0,5	**225,-**	965-228	55,-	963-128	88,-
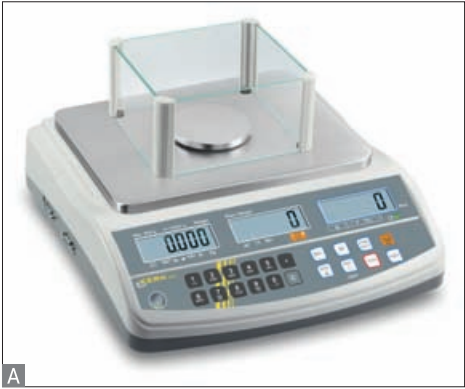
Counting scale KERN CFS

A

C

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

Features

- **Memory for 100 items** with additional text, reference weight and tare weight, e.g. of a container
- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Weighing with tolerance range (checkweighing),** ideal for portioning, dispensing, grading, only in weiging & 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

- **Second balance interface** to construct a high-resolution counting system, standard, e.g. with weighing bridges KERN KFP V20 (see page 138)

Technical data

- Large backlit LCD displays, digit height 20 mm
- Weighing plate dimensions
  A Ø 80 mm
  B WxD 294x225 mm, see enlarged picture
  C WxD 370x240 mm
- Overall dimensions WxDxH
  A 320x350x180 mm (incl. draft shield)
  B 320x350x125 mm
  C 370x360x125 mm
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing standard, can be retrofitted, only for models with weighing plate size B, KERN CFS-A02, **€ 25,-**
- **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 an extensive accessories range, see page 157 ff.

STANDARD

| CAL EXT | MEMORY | RS 232 | DUAL | PCS | SUM | TOL | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY |

OPTION

| ACCU | DAkkS +3 DAYS |

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
								DAkkS KERN	€
CFS 300-3	0,3	0,001	0,002	0,005	2,5	A	350,-	963-127	72,-
CFS 3K-5	3	0,01	0,02	0,05	3,3	B	290,-	963-127	72,-
CFS 6K0.1	6	0,1	0,1	0,1	3,3	B	270,-	963-128	88,-
CFS 15K0.2	15	0,2	0,2	0,2	3,3	B	270,-	963-128	88,-
CFS 30K0.5	30	0,5	0,5	0,5	3,3	B	270,-	963-128	88,-
CFS 50K-3	50	1	1	1	5,5	C	290,-	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

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 gradually improves the average value of the piece weight
- **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
- Dimensions of weighing plate (stainless steel*)
  A Ø 81 mm
  B WxD 150x170 mm*
  C WxD 340x240 mm*, see larger 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 retrofitted, for models with weighing plate size
  A KERN PCB-A02, **€ 25,-**
  B KERN PCB-A05, **€ 25,-**
  C KERN FKB-A02, **€ 25,-**
- **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 an extensive accessories range, see page 157 ff.

10

STANDARD

| CAL EXT | RS 232 | PCS | UNDER | BATT | 230 V | 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	Counting resolution Points	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
							DAkkS KERN	€
CKE 360-3	0,36	0,001	0,001	360.000	A	**370,-**	963-127	72,-
CKE 2000-2	2	0,01	0,01	200.000	B	**350,-**	963-127	72,-
CKE 3600-2	3,6	0,01	0,01	360.000	B	**370,-**	963-127	72,-
CKE 6K0.02	6	0,02	0,02	300.000	C	**500,-**	963-128	88,-
CKE 8K0.05	8	0,05	0,05	160.000	C	**460,-**	963-128	88,-
CKE 16K0.05	16	0,05	0,05	320.000	C	**560,-**	963-128	88,-
CKE 16K0.1	16	0,1	0,1	160.000	C	**460,-**	963-128	88,-
CKE 36K0.1	36	0,1	0,1	360.000	C	**510,-**	963-128	88,-
CKE 65K0.2	65	0,2	0,2	325.000	C	**510,-**	963-129	105,-
CKE 65K0.5	65	0,5	0,5	130.000	C	**480,-**	963-129	105,-

Counting scale KERN IFS

1

A 300x240x110 mm   B 400x300x128 mm
C 500x400x137 mm
D 650x500x142 mm, see enlarged picture
- Dimensions of display device WxDxH 260x150x65 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature 0 °C / 40 °C

Industrial counting scale with convenient decimal keypad for easy data entry – now also with EC type approval [M], counting resolution up to 75,000 points

Features

- **Industrial quality:** because of its stable construction and robust design, it is ideal for continuous use in an industrial environment
- **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.
- **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 piece counts

Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Weighing plate dimensions, stainless steel, WxDxH

Accessories

- **Protective working cover** standard, can be reordered, KERN KFB-A02, **€ 30,-**
- **1 Stand** to elevate display device, height of stand approx. 330 mm, KERN IFB-A01, **€ 45,-**
  height of stand approx. 600 mm, for models with weighing plate size C and D, 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 157 ff.

STANDARD

| CAL EXT | MEMORY only IFS-M | RS 232 only IFS-M | GLP INTERN | PCS | SUM | PERCENT | TOL | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY |

OPTION

| DAkkS +3 DAYS |

FACTORY

| ACCU | M +3 DAYS |

Model KERN	Weighing range [Max] kg	Readout [d] g	Verifiction value [d] g	Min. piece weight [Counting] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DAkkS Calibr. Certificate	
									M KERN	€	DAkkS KERN	€
Dual-range scale 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	A	370,-			963-128	88,-
IFS 30K0.2DL	12 | 30	0,2 | 0,5		0,5	60.000	10	B	430,-			963-128	88,-
IFS 60K0.5D	30 | 60	0,5 | 1		1	60.000	10	B	430,-			963-129	105,-
IFS 60K0.5DL	30 | 60	0,5 | 1		1	60.000	16	C	510,-			963-129	105,-
IFS 100K-3	75 | 150	1 | 2		2,5	60.000	16	B	560,-			963-129	105,-
IFS 100K-3L	75 | 150	1 | 2		2,5	60.000	24	C	690,-			963-129	105,-
IFS 300K-3	150 | 300	2 | 5		5	60.000	24	C	700,-			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 [NEW]	3 | 6	1 | 2	1 | 2	0,1	60.000	6,5	A	410,-	965-228	55,-	963-128	88,-
IFS 10K-3M [NEW]	6 | 15	2 | 5	2 | 5	0,2	75.000	6,5	A	410,-	965-228	55,-	963-128	88,-
IFS 10K-3LM [NEW]	6 | 15	2 | 5	2 | 5	0,2	75.000	10	B	460,-	965-228	55,-	963-128	88,-
IFS 30K-3M [NEW]	15 | 30	5 | 10	5 | 10	0,5	60.000	10	B	460,-	965-228	55,-	963-128	88,-
IFS 60K-2M [NEW]	30 | 60	10 | 20	10 | 20	1	60.000	10	B	460,-	965-229	93,-	963-129	105,-
IFS 60K-2LM [NEW]	30 | 60	10 | 20	10 | 20	1	60.000	16	C	550,-	965-229	93,-	963-129	105,-
IFS 100K-2M [NEW]	60 | 150	20 | 50	20 | 50	2,5	60.000	16	C	550,-	965-229	93,-	963-129	105,-
IFS 100K-2LM [NEW]	60 | 150	20 | 50	20 | 50	2,5	60.000	24	D	690,-	965-229	93,-	963-129	105,-
IFS 300K-2M [NEW]	150 | 300	50 | 100	50 | 100	5	60.000	24	D	690,-	965-229	93,-	963-129	105,-

[NEW] New model

Counting scale KERN CDS

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 gradually improves the average value of the piece weight

Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxDxH
  - **A** 228x228x70 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 retrofitted, KERN DE-A12, **€ 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, **€ 90,-**
- **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,-**
- **Suitable printers** and an extensive accessories range, see page 157 ff.

10

STANDARD

| CAL EXT | RS 232 | PCS | UNDER only B | 230 V | 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	Counting resolution Points	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	€
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	660,-	963-128	88,-
CDS 36K0.2L	36	0,2	0,2	180.000	9,5	0,6	C	650,-	963-128	88,-
CDS 60K0.2	60	0,2	0,2	300.000	9,5	0,6	C	660,-	963-129	105,-
CDS 100K0.5	100	0,5	0,5	200.000	9,5	0,6	C	660,-	963-129	105,-

Counting system KERN CCS

Quantity scale KERN KFP

Reference scale KERN CFS

Counting system to count very small parts in 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:

- The 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 (up to 999.999 pieces)

- **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 gradually improves the average value of the piece weight
- For additional details on the KERN CFS reference scale, see page 92

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, see page 97
- **Aluminium singlepoint load cell** (1 x 3000 e), dust and spray protection IP65
- For additional details on the KERN KFP quantity scale, see page 138

Counting system KERN CCS

Technical data

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

KFP:
- Dimensions of weighing plate, stainless steel, WxDxH
  - Ⓐ 230x230x100 mm
  - Ⓑ 300x240x100 mm
  - Ⓒ 400x300x128 mm
  - Ⓓ 500x400x137 mm
  - Ⓔ 650x500x142 mm
  - Ⓕ 1000x1000x80 mm
  - Ⓖ 1500x1250x80 mm
  - Ⓗ 1500x1500x80 mm
  - Ⓘ 842x1300x90 mm

- Connection cable
  - Ⓐ - Ⓔ approx. 2,5 m
  - Ⓕ - Ⓘ approx. 5 m

Accessoires

- **Reference scale** also available separately, details see page 92,
  KERN CFS 300-3, **€ 350,-**
  KERN CFS 3K-5, **€ 290,-**
  KERN CFS 6K0.1, **€ 270,-**
- **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,-**
- ⓶ **Signal lamp** for visual support of weighing with tolerance range. Three-colour LED (yellow, green, red). Overall dimensions WxDxH 100x180x300 mm, details see page 160, KERN CFS-A03, **€ 250,-**

Information on other high-capacity bulk scales, 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 scale (d = 0.1g), please refer to the website

- **Y cable** for parallel connection of two terminal devices to the RS-232 interface on the balance, e.g. signal lamp and printer, details see page 160, KERN CFS-A04, **€ 35,-**
- **Suitable printers** and further, extensive accessories from page 157 ff.

STANDARD										OPTION	
CAL EXT	MEMORY	RS 232	DUAL *only CFS*	PCS	SUM A	TOL	230 V	DMS	1 DAY	3 YEARS WARRANTY	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 DAkkS KERN	€
CCS 6K-6	KFP 6V20M	6	2	Ⓐ	CFS 300-3	300	0,001	0,005	670,-	962-128-127	145,-
CCS 10K-6	KFP 15V20M	15	5	Ⓑ	CFS 300-3	300	0,001	0,005	710,-	962-128-127	145,-
CCS 30K0.01	KFP 30V20M	30	10	Ⓒ	CFS 3K-5	3000	0,01	0,05	580,-	962-128-127	145,-
CCS 30K0.1	KFP 30V20M	30	10	Ⓒ	CFS 6K0.1	6000	0,1	0,1	570,-	962-128-128	160,-
CCS 60K0.01	KFP 60V20M	60	20	Ⓒ	CFS 3K-5	3000	0,01	0,05	580,-	962-129-127	160,-
CCS 60K0.01L	KFP 60V20LM	60	20	Ⓓ	CFS 3K-5	3000	0,01	0,05	660,-	962-129-127	160,-
CCS 60K0.1	KFP 60V20M	60	20	Ⓒ	CFS 6K0.1	6000	0,1	0,1	550,-	962-129-128	175,-
CCS 60K0.1L	KFP 60V20LM	60	20	Ⓓ	CFS 6K0.1	6000	0,1	0,1	610,-	962-129-128	175,-
CCS 150K0.01	KFP 150V20M	150	50	Ⓓ	CFS 3K-5	3000	0,01	0,05	650,-	962-129-127	160,-
CCS 150K0.01L	KFP 150V20LM	150	50	Ⓔ	CFS 3K-5	3000	0,01	0,05	850,-	962-129-127	160,-
CCS 150K0.1	KFP 150V20M	150	50	Ⓓ	CFS 6K0.1	6000	0,1	0,1	610,-	962-129-128	175,-
CCS 150K0.1L	KFP 150V20LM	150	50	Ⓔ	CFS 6K0.1	6000	0,1	0,1	820,-	962-129-128	175,-
CCS 300K0.1	KFP 300V20M	300	100	Ⓔ	CFS 6K0.1	6000	0,1	0,1	840,-	962-129-128	175,-
CCS 300K0.01	KFP 300V20M	300	100	Ⓔ	CFS 3K-5	3000	0,01	0,05	810,-	962-129-127	160,-
CCS 600K-2 [NEW]	KFP 600V20SM	600	200	Ⓕ	CFS 3K-5	3000	0,01	0,05	1450,-	962-130-127	237,-
CCS 600K-2L [NEW]	KFP 600V20M	600	200	Ⓖ	CFS 3K-5	3000	0,01	0,05	1850,-	962-130-127	237,-
CCS 600K-2U [NEW]	KFU 600V20M	600	200	Ⓘ	CFS 3K-5	3000	0,01	0,05	1250,-	962-130-127	237,-
CCS 1T-1 [NEW]	KFP 1500V20SM	1500	500	Ⓕ	CFS 6K0.1	6000	0,1	0,1	1390,-	962-130-128	253,-
CCS 1T-1L [NEW]	KFP 1500V20M	1500	500	Ⓖ	CFS 6K0.1	6000	0,1	0,1	1890,-	962-130-128	253,-
CCS 1T-1U [NEW]	KFU 1500V20M	1500	500	Ⓘ	CFS 6K0.1	6000	0,1	0,1	1300,-	962-130-128	253,-
CCS 3T-1 [NEW]	KFP 3000V20M	3000	1000	Ⓖ	CFS 6K0.1	6000	0,1	0,1	1950,-	962-132-128	528,-
CCS 3T-1L [NEW]	KFP 3000V20LM	3000	1000	Ⓗ	CFS 6K0.1	3000	0,01	0,1	1990,-	962-132-128	528,-

[NEW] New model

10

Stocktaking scale KERN FKA

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

Features

- **Application-orientated scale-PC system** for rapid and reliable recording of stock levels, e.g. as part of stocktaking
- **1** **Using the software included as standard,** an Excel list produced on a PC with stocktaking items can be transferred to the scale. In the warehouse, stocktaking items can then be weighed, counted and stored by the scale, while still in their containers. In doing this, the stored container weight will be subtracted automatically. After the stocktaking, the stock level will then be transferred back to the PC, to then be processed further as an Excel table. In this way the workload and input effort at the scale is kept at a minimum and time efficiency is maximised = cost saving
- **Counting** with fixed and variable reference quantities
- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight

- **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, refer. weight etc.
- During stocktaking it is possible to print individual items recorded

Technical data

- Large backlit and touch-sensitive LCD screen 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 retrofitted, KERN FKB-A02, **€ 25,-**
- **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 an extensive accessories range, see page 157 ff.

STANDARD | OPTION

| CAL EXT | MEMORY | RS 232 | PCS | UNIT | UNDER | BATT | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | ACCU | DAkkS +3 DAYS |

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

NEW New Model   ⬇ Price reduction

Stocktaking counting system KERN FKC

NEW

1

High-resolution stocktaking counting system with touchscreen to quickly measure the quantity of stock items and information transfer to the PC

Features

- **Counting with a reference balance for high counting accuracy:** the highly accurate KERN counting system FKC can replace a whole range of individual balances, efficiently and at a reasonable price. The counting system consists of an FKA bulk scale (see page 98 for details) and a KB-N reference balance (see page 26 for details) as well as an interface cable.
- **Application-orientated scale-PC system** for rapid and reliable recording of stock levels, e.g. as part stocktaking
- 1 **Item recognition** using the optional bar-code scanner is possible.
- **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 scale 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 balance KB-N

- Large backlit LCD screen with digit height 9 mm
- Weighing plate dimensions Ø/WxD KB 120-3N: Ø 81 mm KB 1200-2N: 130x130 mm
- Dimensions housing KB-N: WxDxH 167x250x85 mm
- Permissible ambient temperature 10 °C / 40 °C

Technical data Quantity scale FKA

- Large backlit and touch-sensitive LCD screen with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Dimensions housing FKA: 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 Reference balance KB-N

- **Protective working cover** over keyboard and housing, standard, can be retrofitted, **€ 25,-** KB 120-3N: PCB-A02 KB 1200-2N: PCB-A04
- **Rechargeable battery pack external,** operating time up to 15 h without backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**

Accessories Quantity scale FKA

- see page 98

10

STANDARD

| CAL EXT | MEMORY | RS 232 | GLP PRINTER | PCS | RECIPE KB-N only | PERCENT KB-N only | UNIT | UNDER | BATT FKA only | 230 V | DMS | 2 DAYS | 3 YEARS WARRANTY |

OPTION

| ACCU KB-N only | DAkkS +3 DAYS |

Model	Quantity scale	Weighing range [Max]	Readout [d]	Weighing plate	Reference balance	Weighing range [Max]	Readout [d]	Min. piece weight [Counting]	Price excl. of VAT ex works	Options DAkkS Calibr. Certificate	
KERN	FKA	kg	g	mm	KB-N	g	g	g/piece	€	DAkkS 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,-

11

Platform scales

Platform scales – the all-rounder among 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 checkweighing 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 over ➔ *data interfaces* for connecting scales to a network, PC or printer to the useful battery or recheargable battery operation for mobile use. The funktion for "Weighing without vibrations" 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 which is useful when working with gloves or dirty hands, see page 105, 116.

Your KERN product specialist will be happy to help:

Stephan Ade
Product specialist Platform scales

Tel.   +49 [0] 7433 9933 - 121
Fax   +49 [0] 7433 9933 - 29121
ade@kern-sohn.com

Quick-Finder Platform scales

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	PCS	TOL	MOVE	IP	BATT	ACCU
0,01 g	3 kg	DS 3K0.01S	640,-	112	1			●		●	●		●			○
0,01 g	3 kg	IKT 3K0.01S	920,-	114	1			●	●	●	●	●	●			○
0,01 g	10 kg	ILT 10K-5NM	3600,-	116	1	○	●		●	●	●	●	●			
0,05 g	5 kg	DS 5K0.05S	560,-	112	1			●		●	●		●			○
0,05 g	8 kg	DS 8K0.05	550,-	112	1			●		●	●		●			○
0,05 g	8 kg	IKT 8K0.05	850,-	114	1			●	●	●	●	●	●			○
0,1 g	6 kg	IKT 6K0.1	830,-	114	1			●	●	●	●	●	●			○
0,1 g	6 kg	ILT 6K-4BM	1950,-	116	1	○	●		●	●	●	●	●			
0,1 g	10 kg	DS 10K0.1S	530,-	112	1			●		●	●		●			○
0,1 g	10 kg	IKT 10K0.1S	850,-	114	1			●	●	●	●	●	●			○
0,1 g	16 kg	DS 16K0.1	550,-	112	1			●		●	●		●			○
0,1 g	16 kg	IKT 16K0.1	850,-	114	1			●	●	●	●	●	●			○
0,1 g	20 kg	DS 20K0.1	580,-	112	1			●		●	●		●			○
0,1 g	25 kg	ILJ 25K-4CM	2050,-	113	1	○	●		●	●	●	●				
0,1 g	30 kg	DS 30K0.1	610,-	112	1			●		●	●		●			○
0,1 g	30 kg	DS 30K0.1L	700,-	112	1			●		●	●		●			○
0,1 g	30 kg	ILS 30K-4C	1790,-	113	1			●	●	●	●	●				
0,1 g	30 kg	IKT 30K0.1	850,-	114	1			●	●	●	●	●	●			○
0,1 g	30 kg	IKT 30K0.1L	1150,-	114	1			●	●	●	●	●	●			○
0,1 g	35 kg	ILT 35K-4NM	4200,-	116	1	○	●		●	●	●	●	●			
0,1 g	50 kg	ILS 50K-4C	2320,-	113	1			●	●	●	●	●				
0,1 g	50 kg	ILT 50K-4C	5500,-	116	1			●	●	●	●	●	●			
0,2 g	6 kg	IFB 6K-4	320,-	108	1			●		●	●	●	●			○
0,2 g	12 kg	IKT 12K0.2	830,-	114	1			●	●	●	●	●	●			○
0,2 g	36 kg	DS 36K0.2	550,-	112	1			●		●	●		●			○
0,2 g	36 kg	IKT 36K0.2	850,-	114	1			●	●	●	●	●	●			○
0,2 g	60 kg	DS 60K0.2	740,-	112	1			●		●	●		●			○
0,2 g	60 kg	IKT 60K0.2L	1120,-	114	1			●	●	●	●	●	●			○
0,2 | 0,5 g	6 | 15 kg	DE 15K0.2D	325,-	106	1			●		●	●		●	●	○	○
0,5 g	6 kg	DE 6K0.5A	210,-	106	1			●		●	●		●	●	○	○
0,5 g	15 kg	IFB 10K-4	320,-	108	1			●		●	●	●	●			○
0,5 g	30 kg	IKT 30K0.5	830,-	114	1			●	●	●	●	●	●			○
0,5 g	65 kg	DS 65K0.5	700,-	112	1			●		●	●		●			○
0,5 g	65 kg	IKT 65K0.5L	1050,-	114	1			●	●	●	●	●	●			○
0,5 g	100 kg	DS 100K0.5	740,-	112	1			●		●	●		●			○
0,5 g	100 kg	IKT 100K0.5L	1150,-	114	1			●	●	●	●	●	●			○
0,5 | 1 g	15 | 35 kg	DE 35K0.5D	325,-	106	1			●		●	●		●	●	○	○
1 g	6 kg	IKT 6K1M	990,-	114	1	○		●	●	●	●	●	●			○
1 g	12 kg	DE 12K1A	210,-	106	1			●		●	●		●	●	○	○
1 g	30 kg	IFB 30K-3	390,-	108	1			●		●	●	●	●			○
1 g	60 kg	IKT 60K1L	1050,-	114	1			●	●	●	●	●	●			○
1 g	60 kg	ILT 60K-3BM	2400,-	116	1	○	●		●	●	●	●	●			
1 g	65 kg	DS 65K1M	790,-	112	1	○		●		●	●		●			○
1 g	150 kg	DS 150K1	740,-	112	1			●		●	●		●			○
1 g	150 kg	IKT 150K1L	1150,-	114	1			●	●	●	●	●	●			○
1 | 2 g	3 | 6 kg	DE 6K1D	180,-	106	1			●		●	●		●	●	○	○
1 | 2 g	3 | 6 kg	IFB 6K1DM	310,-	108	1	○		●		●	●	●	●			○
1 | 2 g	3 | 6 kg	IXS 6K-3M	450,-	111	1	○		●		○	●	●		●		○
1 | 2 g	3 | 6 kg	ILT 6K-3GM	1810,-	116	1	○	●		●	●	●	●	●			
1 | 2 g	30 | 60 kg	DE 60K1D	325,-	106	1			●		●	●		●	●	○	○
2 g	6 kg	SFE 6K-3M	350,-	110	1	○		●				●	●	●		●
2 g	12 kg	IKT 12K2M	990,-	114	1	○		●	●	●	●	●	●			○
2 g	24 kg	DE 24K2A	210,-	106	1			●		●	●		●	●	○	○
2 g	60 kg	IFB 60K-3	390,-	108	1			●		●	●	●	●			○
2 g	120 kg	IKT 120K2L	1050,-	114	1			●	●	●	●	●	●			○
2 g	150 kg	IKT 150K2XL	1200,-	114	1			●	●	●	●	●	●			○
2 | 5 g	6 | 15 kg	DE 15K2D	180,-	106	1			●		●	●		●	●	○	○
2 | 5 g	6 | 15 kg	IFB 15K2DM	310,-	108	1	○		●		●	●	●	●			○
2 | 5 g	6 | 15 kg	IXS 10K-3M	450,-	111	1	○		●		○	●	●		●		○
2 | 5 g	6 | 15 kg	ILT 10K-3GM	1830,-	116	1	○	●		●	●	●	●	●			
2 | 5 g	60 | 150 kg	DE 150K2D	330,-	106	1			●		●	●		●	●	○	○
5 g	15 kg	EOA 10K-3	105,-	103	1			●							●	
5 g	15 kg	EOB 15K5	135,-	104	1			●					●		○	
5 g	15 kg	SFE 15K5IPM	350,-	110	1	○		●				●		●		●
5 g	15 kg	SFE 10K-3LM	390,-	110	1	○		●				●		●		●
5 g	30 kg	IKT 30K5M	1010,-	114	1	○		●	●	●	●	●	●			○
5 g	60 kg	DE 60K5A	210,-	106	1			●		●	●		●	●	○	○
5 g	150 kg	IFB 100K-3	490,-	108	1			●		●	●	●	●			○
5 g	300 kg	IKT 300K5XL	1200,-	114	1			●	●	●	●	●	●			○
5 | 10 g	15 | 30 kg	IFB 30K5DM	370,-	108	1	○		●		●	●	●	●			○
5 | 10 g	15 | 30 kg	IXS 30K-2M	480,-	111	1	○		●		○	●	●		●		○

● = Standard ○ = Option

11

Quick-Finder Platform scales

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	PCS	TOL	MOVE	IP	BATT	ACCU
5 | 10 g	15 | 30 kg	IXS 30K-2LM	590,-	111	1	○		●		○	●	●		●		○
5 | 10 g	15 | 30 kg	ILT 30K-2GM	1880,-	116	1	○	●		●	●	●	●	●			
5 | 10 g	15 | 35 kg	DE 35K5D	180,-	106	1			●		●	●		●	●	○	○
5 | 10 g	15 | 35 kg	DE 35K5DL	295,-	106	1			●		●	●		●	●	○	○
5 | 10 g	150 | 300 kg	DE 300K5DL	420,-	106	1			●		●	●		●	●	○	○
10 g	15 kg	EOE 15K10	115,-	103	1			●					●		●	
10 g	30 kg	SFE 30K10IPM	350,-	110	1	○		●				●	●	●		●
10 g	35 kg	EOA 30K-2	105,-	103	1			●					●		●	
10 g	35 kg	EOB 35K10	135,-	104	1			●					●		○	
10 g	35 kg	EOB 35K-2F	200,-	105	1			●					●		○	
10 g	60 kg	IKT 60K10LM	1250,-	114	1	○		●	●	●	●	●	●			○
10 g	120 kg	DE 120K10A	210,-	106	1			●		●	●		●	●	○	○
10 g	300 kg	IFB 300K-2	690,-	108	1			●		●	●	●	●			○
10 | 20 g	30 | 60 kg	DE 60K10D	180,-	106	1			●		●	●		●	●	○	○
10 | 20 g	30 | 60 kg	DE 60K10DL	295,-	106	1			●		●	●		●	●	○	○
10 | 20 g	30 | 60 kg	IFB 60K10DM	370,-	108	1	○		●		●	●	●	●			○
10 | 20 g	30 | 60 kg	IFB 60K10DLM	460,-	108	1	○		●		●	●	●	●			○
10 | 20 g	30 | 60 kg	IXS 60K-2M	480,-	111	1	○		●		○	●	●		●		○
10 | 20 g	30 | 60 kg	IXS 60K-2LM	590,-	111	1	○		●		○	●	●		●		○
10 | 20 g	30 | 60 kg	ILT 60K-2GM	1880,-	116	1	○	●		●	●	●	●	●			
10 | 20 g	30 | 60 kg	ILT 60K-2LGM	1930,-	116	1	○	●		●	●	●	●	●			
20 g	35 kg	EOE 35K20	115,-	103	1			●					●		●	
20 g	60 kg	EOA 50K-2	105,-	103	1			●					●		●	
20 g	60 kg	EOB 60K20	135,-	104	1			●					●		○	
20 g	60 kg	EOB 60K20L	340,-	104	1			●					●		○	
20 g	60 kg	EOB 60K-2F	200,-	105	1			●					●		○	
20 g	60 kg	EOB 60K-2LF	390,-	105	1			●					●		○	
20 g	60 kg	SFE 60K20IPM	380,-	110	1	○		●				●	●	●		●
20 g	60 kg	SFE 60K-2LM	490,-	110	1	○		●				●	●	●		●
20 g	120 kg	IKT 120K20LM	1250,-	114	1	○		●	●	●	●	●	●			○
20 g	600 kg	IFB 600K-4	750,-	108	1			●		●	●	●	●			○
20 | 50 g	60 | 150 kg	DE 150K20D	190,-	106	1			●		●	●		●	●	○	○
20 | 50 g	60 | 150 kg	DE 150K20DL	295,-	106	1			●		●	●		●	●	○	○
20 | 50 g	60 | 150 kg	DE 150K20DXL	395,-	106	1			●		●	●		●	●	○	○
20 | 50 g	60 | 150 kg	IFB 150K20DM	460,-	108	1	○		●		●	●	●	●			○
20 | 50 g	60 | 150 kg	IFB 150K20DLM	600,-	108	1	○		●		●	●	●	●			○
20 | 50 g	60 | 150 kg	IXS 100K-2M	590,-	111	1	○		●		○	●	●		●		○
20 | 50 g	60 | 150 kg	IXS 100K-2LM	790,-	111	1	○		●		○	●	●		●		○
20 | 50 g	60 | 150 kg	ILT 100K-2GM	1920,-	116	1	○	●		●	●	●	●	●			
20 | 50 g	60 | 150 kg	ILT 100K-2LGM	2120,-	116	1	○	●		●	●	●	●	●			
50 g	60 kg	EOE 60K50	115,-	103	1			●					●		●	
50 g	150 kg	EOA 100K-2	105,-	103	1			●					●		●	
50 g	150 kg	EOE 150K50L	255,-	103	1			●					●		●	
50 g	150 kg	EOE 150K50XL	300,-	103	1			●					●		●	
50 g	150 kg	EOB 150K50	135,-	104	1			●					●		○	
50 g	150 kg	EOB 150K50L	340,-	104	1			●					●		○	
50 g	150 kg	EOB 150K50XL	350,-	104	1			●					●		○	
50 g	150 kg	EOS 150K50XL	385,-	104	1			●					●		○	
50 g	150 kg	EOB 150K-2F	200,-	105	1			●					●		○	
50 g	150 kg	EOB 150K-2LF	390,-	105	1			●					●		○	
50 g	150 kg	EOS 150K50XLF	440,-	105	1			●					●		○	
50 g	150 kg	SFE 100K-2M	390,-	110	1	○		●				●	●	●		●
50 g	150 kg	SFE 100K-2LM	490,-	110	1	○		●				●	●	●		●
50 g	150 kg	SFE 100K-2XLM	670,-	110	1	○		●				●	●	●		●
50 | 100 g	150 | 300 kg	DE 300K50D	295,-	106	1			●		●	●		●	●	○	○
50 | 100 g	150 | 300 kg	DE 300K50DL	390,-	106	1			●		●	●		●	●	○	○
50 | 100 g	150 | 300 kg	IFB 300K50DM	590,-	108	1	○		●		●	●	●	●			○
50 | 100 kg	150 | 300 kg	IFB 300K50DM	600,-	108	1			●		●	●	●	●			○
50 | 100 g	150 | 300 kg	IXS 300K-2M	790,-	111	1	○		●		○	●	●		●		
50 | 100 g	150 | 300 kg	ILT 300K-2GM	2120,-	116	1	○	●		●	●	●	●	●			
100 g	150 kg	EOE 150K100	115,-	103	1			●					●		●	
100 g	300 kg	EOE 300K100L	255,-	103	1			●					●		●	
100 g	300 kg	EOE 300K100XL	300,-	103	1			●					●		●	
100 g	300 kg	EOB 300K100A	135,-	104	1			●					●		○	
100 g	300 kg	EOB 300K100L	340,-	104	1			●					●		○	
100 g	300 kg	EOB 300K100XL	350,-	104	1			●					●		○	
100 g	300 kg	EOS 300K100XL	385,-	104	1			●					●		○	
100 g	300 kg	EOB 300K-1LF	390,-	105	1			●					●		○	
100 g	300 kg	EOS 300K100XLF	440,-	105	1			●					●		○	
100 g	300 kg	SFE 300K-1LM	670,-	110	1	○		●				●	●	●		●
100 | 200 kg	300 | 600 kg	IFB 600K-1M	890,-	108	1	○		●		●	●	●	●			○

● = Standard   ○ = Option

Parcel scales KERN EOA · EOE

KERN EOA

KERN EOE

Parcel scale 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 165 ff.

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

Technical data

- Large LCD display, 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

EOE:
- **1 Ascending ramp** incl. pair of base plates for models with weighing plate size WxD 505x505 mm, not included. WxDxH 505x507x61 mm, can be retrofitted, KERN EOE-A02, **€ 130,-**
- **Non-slip rubber mat**, WxD 945x505 mm, KERN EOE-A01, **€ 40,-**
- **Sturdy transport case**, for models with weighing plate size ≤ 315x305x65 mm, for details see page 162, KERN MPS-A07, **€ 105,-**

STANDARD · OPTION

| CAL EXT | UNIT (only EOE) | MOVE (only EOE) | BATT | 230 V (only EOE) | DMS | 1 DAY | 2 YEARS WARRANTY | DAkkS +3 DAYS |

Model	Weighing range [Max]	Readout [d]	Repro-ducibility	Linearity	Net weight approx.	Cable length approx.	Weighing plate	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	kg	g	g	g	kg	m	mm	**€**	DAkkS KERN	€
EOA 10K-3	15	5	5	± 25	3	1,4	315x305x30	**105,-**	963-128	88,-
EOA 30K-2	35	10	10	± 50	3	1,4	315x305x30	**105,-**	963-128	88,-
EOA 50K-2	60	20	20	± 100	3	1,4	315x305x30	**105,-**	963-129	105,-
EOA 100K-2	150	50	50	± 250	3	1,4	315x305x30	**105,-**	963-129	105,-
EOE 15K10	15	10	10	± 20	4	1,8	315x305x65	**115,-**	963-128	88,-
EOE 35K20	35	20	20	± 40	4	1,8	315x305x65	**115,-**	963-128	88,-
EOE 60K50	60	50	50	± 100	4	1,8	315x305x65	**115,-**	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 150K100	150	100	100	± 200	4	1,8	315x305x65	**115,-**	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,-

11

Parcel scales KERN EOB · EOS

KERN EOB

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
- **Vibration-free weighing:** 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:

- Dimensions of weighing plate WxDxH
  - A 315x305x65 mm
  - B 550x550x65 mm, see enlarged picture
  - C 945x505x65 mm

EOS:

- Dimensions of weighing plate (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, **€ 160,-**

EOB:

- **Non-slip rubber mat**, only for models with weighing plate size C, KERN EOE-A01, **€ 40,-**
- 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, **€ 70,-**

EOS:

- **Non-slip rubber mat** standard, can be retrofitted, KERN EOS-A01, **€ 35,-**

STANDARD · OPTION

CAL EXT · UNIT · MOVE · BATT · 230 V · DMS · 1 DAY · 2 YEARS WARRANTY · DAkkS +3 DAYS

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 DAkkS KERN	€
EOB 15K5	15	5	5	± 10	4,8	A	135,-	963-128	88,-
EOB 35K10	35	10	10	± 20	4,8	A	135,-	963-128	88,-
EOB 60K20	60	20	20	± 40	4,8	A	135,-	963-129	105,-
EOB 60K20L	60	20	20	± 40	14	B	340,-	963-129	105,-
EOB 150K50	150	50	50	± 100	4,8	A	135,-	963-129	105,-
EOB 150K50L	150	50	50	± 100	14	B	340,-	963-129	105,-
EOB 150K50XL	150	50	50	± 100	19	C	350,-	963-129	105,-
EOB 300K100A	300	100	100	± 200	4,8	A	135,-	963-129	105,-
EOB 300K100L	300	100	100	± 200	14	B	340,-	963-129	105,-
EOB 300K100XL	300	100	100	± 200	19	C	350,-	963-129	105,-
EOS 150K50XL	150	50	50	± 100	20,1	D	385,-	963-129	105,-
EOS 300K100XL	300	100	100	± 200	20,1	D	385,-	963-129	105,-

Parcel scales KERN EOB-F · EOS-F
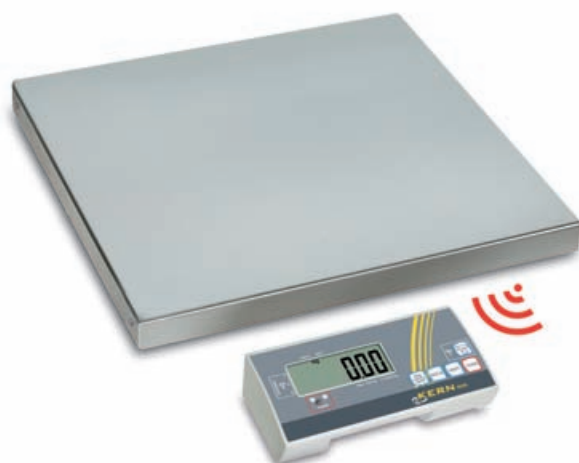
KERN EOB-F

KERN EOS-F

Radio platform scales for maximum flexibility – now with new platform sizes

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
- **Vibration-free weighing:** 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 315x305x65 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, can be retrofitted, KERN EOB-A02, **€ 25,-**
- **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, **€ 70,-**
- **Stand** to elevate display device, height of stand approx. 950 mm, can be retrofitted, KERN MWS-A01, **€ 160,-**

EOS-F:

- **2 Non-slip rubber mat** standard, can be retrofitted, KERN EOS-A01, **€ 35,-**

11

STANDARD

| CAL EXT | UNIT | MOVE | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY only EOB-F | 3 YEARS WARRANTY only EOS-F |

OPTION

| DAkkS +3 DAYS |

Model	Weighing range	Readout	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	g	g		€	DAkkS KERN	€
EOB 35K-2F	35	10	10	± 20	A	**200,-**	963-128	88,-
EOB 60K-2F	60	20	20	± 40	A	**200,-**	963-129	105,-
EOB 60K-2LF	60	20	20	± 40	B	**390,-**	963-129	105,-
EOB 150K-2F	150	50	50	± 100	A	**200,-** ⬇	963-129	105,-
EOB 150K-2LF	150	50	50	± 100	B	**390,-**	963-129	105,-
EOB 300K-1LF	300	100	100	± 200	B	**390,-**	963-129	105,-
EOS 150K50XLF	150	50	50	± 100	C	**440,-**	963-129	105,-
EOS 300K100XLF	300	100	100	± 200	C	**440,-**	963-129	105,-

⬇ Price reduction

Parcel scale KERN DE-D

The long-time success story with dust and spray protected display device

Piece counting
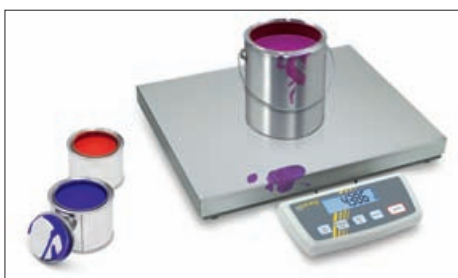
Recipe weighing

Animal weighing

Features

- **High mobility:** Battery or rechargeable battery (optional) operation, compact and flat construction and low weight make this scale ideal for the use in several locations (production, warehouse, dispatch department ecc.)
- **Flexible positioning of display device:** e.g. free-standing or mounted to the wall (optional)

- **1 IP65 indicator.** 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 wire g/m, surface weight g/m^2, or else

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 522x406x100 mm
  - D 522x403x90 mm, see enlarged picture
  - E 650x500x105 mm
- Dimensions of display device WxDxH 225x110x45 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 retrofitted, KERN DE-A12, **€ 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, can be retrofitted, height of stand approx. 480 mm, KERN DE-A10, **€ 90,-**

- **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 an extensive accessories range see page 157 ff.

STANDARD   OPTION

| CAL EXT | RS 232 | PCS | RECIPE | PERCENT | UNIT | MOVE | IP 65 | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY | ACCU | DAkkS +3 DAYS |

Model KERN	Weighing range [Max] kg	Readout [d] g	Repro-ducibility 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 DAkkS KERN	€
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	180,-	963-128	88,-
DE 15K2D	6 | 15	2 | 5	2 | 5	± 6 | ± 15	10	1,4	4	A	180,-	963-128	88,-
DE 35K5D	15 | 35	5 | 10	5 | 10	± 15 | ± 30	10	1,4	4	A	180,-	963-128	88,-
DE 35K5DL	15 | 35	5 | 10	5 | 10	± 15 | ± 30	10	1,4	16	D	295,-	963-128	88,-
DE 60K10D	30 | 60	10 | 20	10 | 20	± 30 | ± 60	20	1,4	4	A	180,-	963-129	105,-
DE 60K10DL	30 | 60	10 | 20	10 | 20	± 30 | ± 60	20	1,4	16	D	295,-	963-129	105,-
DE 150K20D	60 | 150	20 | 50	20 | 50	± 60 | ± 150	40	1,4	4	A	190,-	963-129	105,-
DE 150K20DL	60 | 150	20 | 50	20 | 50	± 60 | ± 150	40	1,4	16	D	295,-	963-129	105,-
DE 150K20DXL	60 | 150	20 | 50	20 | 50	± 60 | ± 150	40	1,4	28	E	395,-	963-129	105,-
DE 300K50D	150 | 300	50 | 100	50 | 100	± 150 | ± 300	200	1,4	16	D	295,-	963-129	105,-
DE 300K50DL	150 | 300	50 | 100	50 | 100	± 150 | ± 300	200	1,4	28	E	390,-	963-129	105,-
DE 6K0.5A	6	0,5	0,5	± 1,5	1	1,4	4	A	210,-	963-128	88,-
DE 12K1A	12	1	1	± 3	2	1,4	4	A	210,-	963-128	88,-
DE 24K2A	24	2	2	± 6	4	1,4	4	A	210,-	963-128	88,-
DE 60K5A	60	5	5	± 15	10	1,4	4	A	210,-	963-129	105,-
DE 120K10A	120	10	10	± 30	20	1,4	4	A	210,-	963-129	105,-
Dual-range scale 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	325,-	963-128	88,-
DE 35K0.5D	15 | 35	0,5 | 1	0,5 | 1	± 2 | ± 4	1	1	4	B	325,-	963-128	88,-
DE 60K1D	30 | 60	1 | 2	1 | 2	± 4 | ± 8	2	1	4	B	325,-	963-129	105,-
DE 60K1DL	30 | 60	1 | 2	1 | 2	± 4 | ± 8	2	1,4	16	C	420,-	963-129	105,-
DE 150K2D	60 | 150	2 | 5	2 | 5	± 8 | ± 20	4	1	4	B	330,-	963-129	105,-
DE 150K2DL	60 | 150	2 | 5	2 | 5	± 8 | ± 20	4	1,4	16	C	420,-	963-129	105,-
DE 300K5DL	150 | 300	5 | 10	5 | 10	± 20 | ± 40	10	1,4	16	C	420,-	963-129	105,-

Industrial platform scale KERN IFB

Robust platform scale 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
- **Superior display size:** digit height 52 mm for the easy reading of weighing results, even under poor lighting conditions
- **Benchtop stand incl. wall mount** for display device as standard

- **Stainless steel weighing plate**, painted steel base
- **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 weighing results and piece counts

- **Vibration-free weighing:** 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

Technical data

- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions (stainless steel) WxDxH
  - A 300x240x110 mm
  - B 400x300x128 mm
  - C 500x400x137 mm, see enlarged picture
  - D 650x500x142 mm
  - E 800x600x150 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard, can be retrofitted, KERN KFB-A02, **€ 30,-**
- 1 **Signal lamp** for visual support of weighing with tolerance range. Details see page 160, can be retrofitted, KERN CFS-A03, **€ 250,-**
- **Stand** to elevate display device, 2 height of stand approx. 330 mm, see illustration, can be retrofitted, KERN IFB-A01, **€ 45,-**
  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, **€ 115,-**

- **Y cable**, RS-232, for details see page 160, 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 indicator with superior display size**, details see page 160, can be retrofitted, KERN YKD-A02, **€ 200,-**
- **Suitable printers** and an extensive accessories range see page 157 ff.

STANDARD | OPTION | FACTORY

CAL EXT · RS 232 · GLP PRINTER · PCS · SUM · TOL · MOVE · 230 V · DMS · 1 DAY · 2 DAYS (only IFB 600K) · 3 YEARS WARRANTY | DAkkS +3 DAYS | ACCU · 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 M KERN	Verification €	DAkkS Calibr. Certificate DAkkS KERN	DAkkS Calibr. Certificate €
IFB 6K-4 [NEW]	6	0,2	–	–	6	A	320,-	–	–	963–128	88,-
IFB 10K-4 [NEW]	15	0,5	–	–	6	A	320,-	–	–	963–128	88,-
IFB 10K-4L [NEW]	15	0,5	–	–	10	B	390,-	–	–	963–128	88,-
IFB 30K-3 [NEW]	30	1	–	–	10	B	390,-	–	–	963–128	88,-
IFB 60K-3 [NEW]	60	2	–	–	10	B	390,-	–	–	963–129	105,-
IFB 60K-3L [NEW]	60	2	–	–	13	C	490,-	–	–	963–129	105,-
IFB 100K-3 [NEW]	150	5	–	–	13	C	490,-	–	–	963–129	105,-
IFB 100K-3L [NEW]	150	5	–	–	22	D	690,-	–	–	963–129	105,-
IFB 300K-2 [NEW]	300	10	–	–	22	D	690,-	–	–	963–129	105,-
IFB 600K-2 [NEW]	600	20	–	–	51	E	750,-	–	–	963–130	165,-
Dual-range scale switches automatically to the next largest weighing range [Max] and readout [d].											
IFB 6K1DM	3 | 6	1 | 2	1 | 2	20	6	A	310,-	965–228	55,-	963–128	88,-
IFB 15K2DM	6 | 15	2 | 5	2 | 5	40	6	A	310,-	965–228	55,-	963–128	88,-
IFB 15K2DLM	6 | 15	2 | 5	2 | 5	40	10	B	370,-	965–228	55,-	963–128	88,-
IFB 30K5DM	15 | 30	5 | 10	5 | 10	100	10	B	370,-	965–228	55,-	963–128	88,-
IFB 60K10DM	30 | 60	10 | 20	10 | 20	200	10	B	370,-	965–229	93,-	963–129	105,-
IFB 60K10DLM	30 | 60	10 | 20	10 | 20	200	13	C	460,-	965–229	93,-	963–129	105,-
IFB 150K20DM	60 | 150	20 | 50	20 | 50	400	13	C	460,-	965–229	93,-	963–129	105,-
IFB 150K20DLM	60 | 150	20 | 50	20 | 50	400	22	D	600,-	965–229	93,-	963–129	105,-
IFB 300K50DM	150 | 300	50 | 100	50 | 100	1000	22	D	600,-	965–229	93,-	963–129	105,-
IFB 600K-1M [NEW]	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.

[NEW] New model

IP protected platform scale KERN SFE

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

Features

- Robust stainless steel display device, ideal for industrial applications, hygienic and easy to clean
- **Load cells aluminium, silicone-coated. IP65:** Dust and spray protected
- **Stainless steel weighing plate**
- 1 Painted steel base
- **Stainless steel display KERN KFE-TM**, for details see page 136. Flexible positioning, e.g. free-standing or mounted to the wall
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading

- **Vibration-free weighing:** 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. 1,5 m
- Rechargeable battery pack internal, standard, operating time up to 35 h without backlight, charging time approx. 12 h. Charge status indicator on display
- 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, **€ 50,-**
- **Stand** to elevate display device, can be retrofitted for models with weighing plate size A, B, C, D: 2 height of stand approx. 200 mm, KERN SFE-A01, **€ 50,-**
  B, C, D: 3 height of stand approx. 400 mm, KERN SFE-A02, **€ 50,-**
  C, D: 3 height of stand approx. 600 mm, KERN SFE-A03, **€ 55,-**

STANDARD | CAL EXT | SUM A | TOL | MOVE | IP 65 | INOX | ACCU | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY

OPTION | DAkkS +3 DAYS

FACTORY | M +3 DAYS

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Options			
								Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	kg		€	M Ⅲ KERN	€	DAkkS KERN	€
SFE 6K-3M	6	2	2	40	6,5	A	**350,-**	965-228	55,-	963-128	88,-
SFE 15K5IPM	15	5	5	100	6,5	A	**350,-**	965-228	55,-	963-128	88,-
SFE 10K-3LM	15	5	5	100	8	B	**390,-**	965-228	55,-	963-128	88,-
SFE 30K10IPM	30	10	10	200	6,5	A	**350,-**	965-228	55,-	963-128	88,-
SFE 60K20IPM	60	20	20	400	8	B	**380,-**	965-229	93,-	963-129	105,-
SFE 60K-2LM	60	20	20	400	14,5	C	**490,-**	965-229	93,-	963-129	105,-
SFE 100K-2M	150	50	50	1000	8	B	**390,-**	965-229	93,-	963-129	105,-
SFE 100K-2LM	150	50	50	1000	14,5	C	**490,-**	965-229	93,-	963-129	105,-
SFE 100K-2XLM	150	50	50	1000	20	D	**670,-**	965-229	93,-	963-129	105,-
SFE 300K-1LM	300	100	100	2000	20	D	**670,-**	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.

For more information, please visit www.kern-sohn.com/en/SFE · Order hotline +49 [0] 7433 9933-0

IP protected platform scale KERN IXS

2

Platform scale with stainless steel IP68 indicator, XL display and EC type approval [M]

Features

- **Ideal for the robust industrial applications**
- **1 Robust stainless steel indicator** with IP68 protection, ideal for industrial applications, for easy and hygienic cleaning, with integrated power supply. Wall mount standard. For additional information see page 136, KERN KXS-TM
- **Superior display size**: digit height 55 mm. Bright backlight for easy reading of weighing results, even in poor lighting conditions
- **Stainless steel weighing plate**
- Substruction in wing design, extremely resistant to bending, steel, lacquered

- **3 Load cells** aluminium, silicone-coated. **IP65:** Dust and spray protected
- **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 to facilitate data exchange between scale, PC or printer
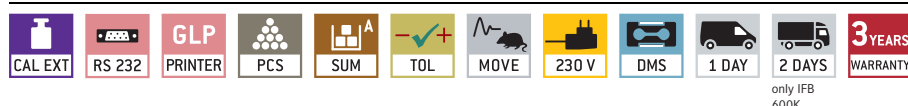
Technical data

- 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

- **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, **€ 100,-**
- **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, **€ 80,-**
- **Foot switch**, must be ordered at purchase, for details see page 160, KERN KXS-A03, **€ 65,-**
- **Suitable printers** see page 157 ff.

STANDARD										OPTION	FACTORY				
CAL EXT	PCS	SUM A	TOL	IP 65	IP 68	INOX	230 V	DMS	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS	RS 232	RS 485	BT	ACCU	M +3 DAYS
				3	1	1									

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		DAkkS Calibr. Certificate	
								M KERN	€	DAkkS KERN	€
Dual-range scale 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	**450,-**	965-228	55,-	963-128	88,-
IXS 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	5,1	A	**450,-**	965-228	55,-	963-128	88,-
IXS 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	10,15	B	**480,-**	965-228	55,-	963-128	88,-
IXS 30K-2M	15 | 30	5 | 10	5 | 10	100 | 200	10,15	B	**480,-**	965-228	55,-	963-128	88,-
IXS 30K-2LM	15 | 30	5 | 10	5 | 10	100 | 200	20,5	C	**590,-**	965-228	55,-	963-128	88,-
IXS 60K-2M	30 | 60	10 | 20	10 | 20	200 | 400	10,15	B	**480,-**	965-229	93,-	963-129	105,-
IXS 60K-2LM	30 | 60	10 | 20	10 | 20	200 | 400	20,5	C	**590,-**	965-229	93,-	963-129	105,-
IXS 100K-2M	60 | 150	20 | 50	20 | 50	400 | 1000	20,5	C	**590,-**	965-229	93,-	963-129	105,-
IXS 100K-2LM	60 | 150	20 | 50	20 | 50	400 | 1000	36	D	**790,-**	965-229	93,-	963-129	105,-
IXS 300K-2M	150 | 300	50 | 100	50 | 100	1000 | 2000	36	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.											

11

Laboratory platform scales KERN DS · DS-M

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 oprimisation of reference weight gradually improves the average piece weight value

Technical data

- Large backlit LCD display, digit height 18 mm
- Weighing plate dimensions stainless steel WxDxH
  - A 228x228x70 mm
  - B 308x318x75 mm, see enlarged picture
  - C 450x350x115 mm
- Dimensions of display device WxDxH 225x115x60 mm
- Cable length of display device
  - A, B 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 retrofitted, KERN DE-A12, **€ 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, **€ 90,-**
- **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 retrofitted, 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** see page 157 ff.

STANDARD

| CAL EXT | RS 232 | GLP PRINTER | PCS | SUM A | PERCENT % | UNIT | MOVE | 230 V | 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	Verification value [e] g	Reproduci-bility g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Verification MⅡ KERN	Verification €	DAkkS Calibr. Certificate DAkkS 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	5,1	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,-	950-118	110,-	963-129	105,-

Laboratory platform scales KERN ILS-C · ILJ-C

PREMIUM ★★★

1

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

Features

- **Laboratory balance with separate platform**: 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, such as 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 11

- **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 11

Technical data

- Large backlit LCD display, digit height 18 mm
- Weighing plate dimensions 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 retrofitted, KERN ILS-A02, **€ 25,-**
- **Suitable printers** see page 157 ff.

11

STANDARD | OPTION | FACTORY

CAL INT	CAL EXT	MEMORY	RS 232	GLP PRINTER	PCS	SUM A	PERCENT	UNIT	TOL	UNDER	230 V	FORCE	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS	M +3 DAYS
2	only ILS															only ILJ

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Net weight approx.	Price excl. of VAT ex works	Options			
							Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	kg	€	M KERN	€	DAkkS KERN	€
ILS 30K-4C	30	0,1	–	–	13,5	**1720,-**	–	–	963-128	88,-
ILS 50K-4C	50	0,1	–	–	13,5	**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,-

Industrial platform scale KERN IKT

PREMIUM
★★★
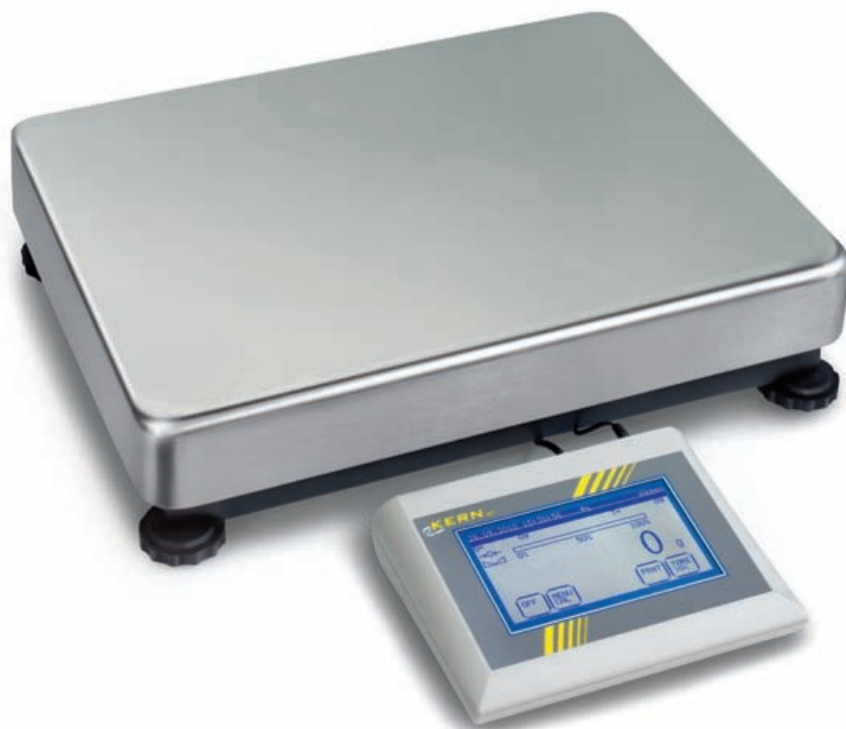
Touchscreen platform scale with enormous range of functions, available also with EC type approval [M]
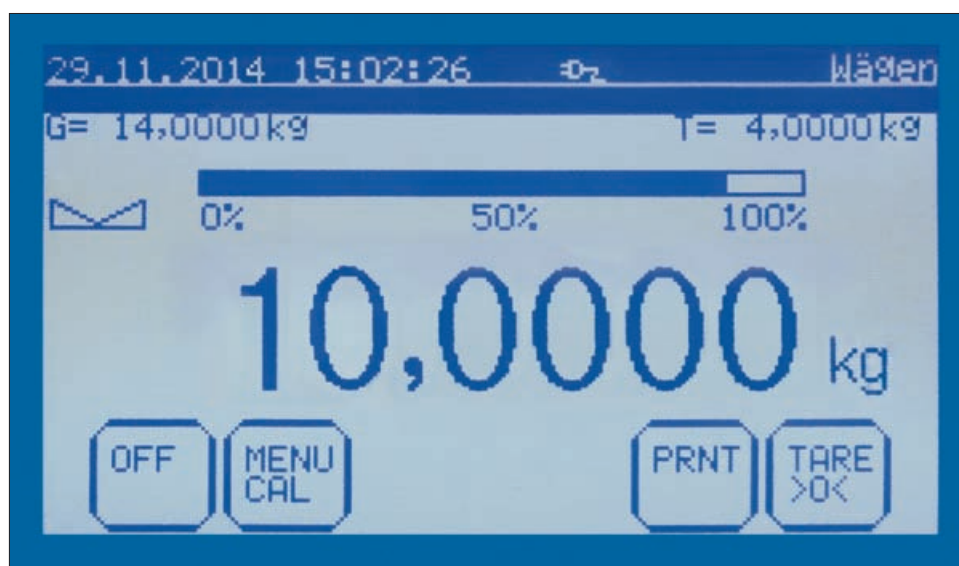
Display at full size, **operating mode weighing**

- **Innovative touchscreen**: High-contrast, backlit and touch-sensitive display for easy operation and convenient reading
- **Advantages:**
  - The menu and processes are self-explanatory
  - No more errors or lost time through keys which have several functions assigned to them or unclear markings
  - Large keys, which can also be operated when wearing gloves
  - More efficient, rapid operation

Easy entering of text and values
e.g. up to 80 item descriptions, user name, weights of tare containers, etc. using large keypad
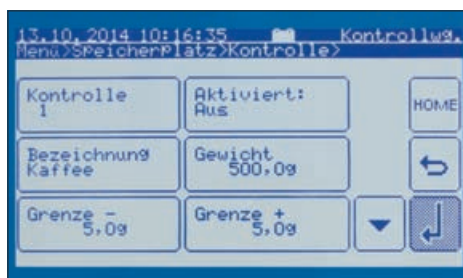
80 memories for each mode
(IKT-M: 40) e.g. for checkweighing, PRE-TARE, reference weight, target weight for dispensing etc.
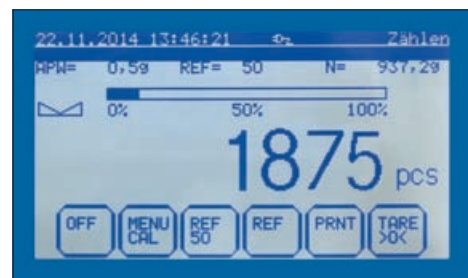
Professional counting function
All relevant counting information at a glance, such as, e.g. reference weight, reference quantity, total count, total weight, tare container weight, available weighing range and much more

11

Industrial platform scale KERN IKT

Features

- **Convenient recipe weighing:** 99 recipes each with 10 components can be stored in plain text (IKT-M: 5 recipes each with 7 components). If there is an excess amount of one ingredient the practical back calculation function automatically calculates the new target weights of the other ingredients. The actual and target values and the proportional percentage can then be printed
- **Multiplier function:** recipes where the ingredients have been recorded as percentages can easily be multiplied when entering the new target weight, which is ideal for the production of larger containers, bulk packs etc.
- **Rapid function** for shortened stabilisation time with reduced resolution
- **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves etc. (35 V / 80 mA)

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
  Ⓐ 228x228x70 mm, Ⓑ 318x308x75 mm
  Ⓒ 450x350x115 mm, see enlarged picture
  Ⓓ 650x500x142 mm
- Dimensions of display device WxDxH 200x155x68 mm
- Cable length of display device for weighing plate size
  Ⓐ approx. 1 m   Ⓑ, Ⓓ approx. 2 m
  Ⓒ approx. 0,6 m
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard, 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 158, KERN YKI-01, **€ 390,-**
- **Set for underfloor weighing**, consisting of platform, handle and hook, only for models with weighing plate size Ⓑ, KERN DS-A01, **€ 200,-**
- **Stand** to elevate display device, height of stand approx. 480 mm, only for models with weighing plate size Ⓑ, Ⓒ, KERN IKT-A06, **€ 100,-**
- **Wall mount** for display device, KERN IKT-A03, **€ 35,-**
- **Suitable printers** de page 157 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 Ⓑ, not for Ⓜ
⑪ Rapid function, not for Ⓜ

Functions
- Capacity display, with ① - ②, ⑤ - ⑦, ⑨ - ⑪
- Dispensing aid (-/+), 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 using RS-232, for examples, see the internet, with ① - ⑪

STANDARD													OPTION			FACTORY
CAL EXT (ILT-NM)	MEMORY	RS 232	GLP INTERN	PCS	RECIPE Ⓑ	SUM Ⓐ	PERCENT %	UNIT	TOL	MOVE	230 V	DMS	1 DAY	3 YEARS WARRANTY	ACCU (not IKT-M)	UNDER Ⓑ	DAkkS +3 DAYS	Ⓜ +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 Ⓜ KERN	Options Verification €	Options DAkkS Calibr. Certificate DAkkS KERN	Options DAkkS Calibr. Certificate €
IKT 6K0.1	6	0,1	–	–	0,1	7,5	Ⓑ	830,-	–	–	963-128	88,-
IKT 12K0.2	12	0,2	–	–	0,2	7,5	Ⓑ	830,-	–	–	963-128	88,-
IKT 30K0.5	30	0,5	–	–	0,5	7,5	Ⓑ	830,-	–	–	963-128	88,-
IKT 60K1L	60	1	–	–	1	9,5	Ⓒ	1050,-	–	–	963-129	105,-
IKT 120K2L	120	2	–	–	2	9,5	Ⓒ	1050,-	–	–	963-129	105,-
IKT 150K2XL	150	2	–	–	2	20	Ⓓ	1200,-	–	–	963-129	105,-
IKT 300K5XL	300	5	–	–	5	20	Ⓓ	1200,-	–	–	963-129	105,-
High resolution readout												
IKT 3K0.01S	3	0,01	–	–	0,01	5,1	Ⓐ	920,-	–	–	963-127	72,-
IKT 8K0.05	8	0,05	–	–	0,05	7,5	Ⓑ	850,-	–	–	963-128	88,-
IKT 10K0.1S	10	0,1	–	–	0,1	5,1	Ⓐ	850,-	–	–	963-128	88,-
IKT 16K0.1	16	0,1	–	–	0,1	7,5	Ⓑ	850,-	–	–	963-128	88,-
IKT 30K0.1	30	0,1	–	–	0,1	7,5	Ⓑ	850,-	–	–	963-128	88,-
IKT 30K0.1L	30	0,1	–	–	0,1	9,5	Ⓒ	1150,-	–	–	963-128	88,-
IKT 36K0.2	36	0,2	–	–	0,2	7,5	Ⓑ	850,-	–	–	963-128	88,-
IKT 36K0.2L	36	0,2	–	–	0,2	9,5	Ⓒ	1050,-	–	–	963-128	88,-
IKT 60K0.2L	60	0,2	–	–	0,2	9,5	Ⓒ	1120,-	–	–	963-129	105,-
IKT 65K0.5L	65	0,5	–	–	0,5	9,5	Ⓒ	1050,-	–	–	963-129	105,-
IKT 100K0.5L	100	0,5	–	–	0,5	9,5	Ⓒ	1150,-	–	–	963-129	105,-
IKT 150K1L	150	1	–	–	1	9,5	Ⓒ	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	Ⓑ	990,-	950-128	55,-	963-128	88,-
IKT 12K2M	12	2	2	40	2	7,5	Ⓑ	990,-	950-128	55,-	963-128	88,-
IKT 30K5M	30	5	5	100	5	7,5	Ⓑ	1010,-	950-128	55,-	963-128	88,-
IKT 60K10LM	60	10	10	200	10	9,5	Ⓒ	1250,-	950-129	93,-	963-129	105,-
IKT 120K20LM	120	20	20	400	20	9,5	Ⓒ	1250,-	950-129	93,-	963-129	105,-

11

Platform scale KERN ILT

PREMIUM ★★★

KERN ILT-BM

KERN ILT-NM

KERN ILT-BM

KERN ILT-GM

State-of-the-art premium touchscreen platform scale with the complete range of functions for demanding processes

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. Thanks to the interactive touch display, the menu and processes are self-explanatory. This reduces training times, avoids operating errors and like this, ensures a more efficient functionality

Intuitive operation, increases efficiency and saves costs: Easy capture of item data at the PC, call up of items on the scale 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.

User-friendly piece-counting function: entry and call up of 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 entry and call up of a wide range of high-performance counting systems - your KERN product specialist will be pleased to assist you

High level of connectivity
- 1 x Ethernet interface
- 2 x RS-232 interface
- 2 x USB interface, e.g. for data exchange or connection of barcode or RFID scanners for quick call up of stored items
- Digital I/O interface (4 in / 4 out) e.g. for machine and plant control
- 1 x Interface for additional display

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-BM, -GM)

Possible record of items using the optional barcode scanner, see accessory. Ideal for rapid recording of items, e.g. as part of stocktaking or to record recipe ingredients during recipe weighing 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 ingredient the practical back calculation function automatically calculates the new target weights of the other ingredients
- **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.
- **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 measurement, 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 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 also page 11
- **Electronic level indicator** continuously checks the position of the scale, 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:** for define limit values for selected parameters, such as, e.g. 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
- **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

Technical data

- Weighing plate dimensions, stainless steel, WxD
  - A 195x195 mm B 230x230 mm
  - C 300x240 mm D 347x259 mm
  - E 400x300 mm F 500x400 mm
  - G 650x500 mm
- Permissible ambient temperature 15 °C / 35 °C; 15 °C / 30 °C (verified)

Accessories

- **Transponder card reader,** RFID technology, dimensions WxDxH 133x98x30 mm, for details see page 164, KERN KET-A05, **€ 450,-**
- **Transponder cards,** 10 pieces, for details see page 164, KERN KET-A08, **€ 65,-**

- Barcode scanner, hand-held version, dimensions WxDxH 152x84x63 mm, for details see page 163
- Version RS-232, KERN PET-A05, **€ 350,-**
- Version USB, KERN PET-A09, **€ 350,-**
- **USB keyboard** for easy capture of items, descriptions etc., dimensions WxDxH 440x128x24 mm, for details see page 164, KERN PET-A06, **€ 45,-**
- **Wall mount for display device,** dimensions WxDxH 135x148x110 mm, for details see page 164, KERN KET-A02, **€ 190,-**
- **Second display,** dimensions WxDxH 150x34x80 mm, for details see page 164, KERN KET-A03, **€ 210,-**
- **Large display,** stainless steel, digit height 111,7 mm, dimensions WxDxH 635x195x48 mm, details see page 163, KERN KET-A06, **€ 1450,-**
- **Analogue/Digital** converter to connect up to two platforms to the display device, for details see page 164, KERN KET-A01, **€ 350,-**
- **Direct thermal label printer,** inclusive software for easy editing of (adhesive) labels included, for details see page 163, KERN PET-A13, **€ 980,-**
- **Thermal transfer and direct thermal label printer,** included software for easy editing of (adhesive) labels, for details see page 163, KERN PET-A14, **€ 1000,-**
- **Software for database management,** for convenient administration of item data at the PC. For details see page 163, KERN KET-A04, **€ 300,-**
- **Suitable printers** and an extensive accessories range see page 157 ff.

STANDARD

CAL INT	MEMORY	RS 232	USB	SWITCH	LAN	PRINTER	PCS	RECIPE	SUM	PERCENT	UNIT	TOL	MOVE	UNDER	230 V	DMS	FORCE	1 DAY
								only ILT-NM, ILT-C	only ILT-GM, ILT-BM					not ILT-BM, -GM		ILT-BM, -GM	ILT-NM	ILT-BM, -NM

OPTION — DAkkS +3 DAYS
FACTORY — M +3 DAYS (not ILT-C)

3 DAYS (ILT-GM) · 3 YEARS WARRANTY

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Weighing plate	Price excl. of VAT ex works €	Optionen Verification KERN	Verification €	DAkkS Calibr. Certificate DAkkS KERN	DAkkS €
ILT 6K-3GM	3 | 6	1 | 2	1 | 2	40	B	1810,-	965-228	55,-	963-128	88,-
ILT 6K-4BM	6	0,1	1	5	A	1950,-	965-217	77,-	963-128	88,-
ILT 10K-3GM	6 | 15	2 | 5	2 | 5	40	C	1830,-	965-228	55,-	963-128	88,-
ILT 10K-3LGM	6 | 15	2 | 5	2 | 5	40	E	1870,-	965-228	55,-	963-128	88,-
ILT 10K-5NM	10	0,01	0,1	0,5	D	3600,-	965-217	77,-	963-128	88,-
ILT 30K-2GM	15 | 30	5 | 10	5 | 10	200	E	1880,-	965-228	55,-	963-128	88,-
ILT 60K-2GM	30 | 60	10 | 20	10 | 20	400	E	1880,-	965-229	93,-	963-129	105,-
ILT 60K-2LGM	30 | 60	10 | 20	10 | 20	400	F	1930,-	965-229	93,-	963-129	105,-
ILT 35K-4NM	35	0,1	1	5	D	4200,-	965-217	77,-	963-128	88,-
ILT 50K-4C	50	0,1	–	–	D	5500,-	–	–	963-128	88,-
ILT 60K-3BM	60	1	10	50	F	2400,-	965-218	110,-	963-129	105,-
ILT 100K-2GM	60 | 150	20 | 50	20 | 50	1000	F	1920,-	965-229	93,-	963-129	105,-
ILT 100K-2LGM	60 | 150	20 | 50	20 | 50	1000	G	2120,-	965-229	93,-	963-129	105,-
ILT 300K-2GM	150 | 300	50 | 100	50 | 100	2000	G	2120,-	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 reduction

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 specialized 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, palletized 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.

Your KERN product specialist will be happy to help:

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

Tel.   +49 [0] 7433 9933 - 121
Fax   +49 [0] 7433 9933 - 29121
ade@kern-sohn.com

Quick-Finder Floor scales / Pallet scales / Drive-through 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	PCS	TOL	MOVE	IP	INOX	ACCU
200 g	600 kg	UFB 600K200M	820,-	123	2	○	●	●	●	●	●	●		○
200 g	600 kg	BFB 600K200SM	1130,-	120	2	○	●	●	●	●	●	●		○
200 g	600 kg	BFS 600K-1SM	1240,-	127	5	○	●	●	●	●	●			○
200 g	600 kg	NFB 600K200M	1290,-	125	2	○	●	●	●	●	●	●		○
200 g	600 kg	BFB 600K200M	1310,-	120	2	○	●	●	●	●	●	●		○
200 g	600 kg	BXS 600K-1SM	1350,-	128	2	○	●	○	●	●	●	●	●	○
200 g	600 kg	NFB 600K200LM	1390,-	125	2	○	●	●	●	●	●	●		○
200 g	600 kg	BFA 600K-1SM	1390,-	127	5	○	●	○	●	●	●	●	●	○
200 g	600 kg	BXS 600K-1M	1550,-	128	2	○	●	○	●	●	●	●	●	○
200 g	600 kg	UFN 600K200IPM	1570,-	124	2	○	●	○	●	●	●	●	●	●
200 g	600 kg	BFS 600K-1M	1620,-	127	5	○	●	●	●	●	●			○
200 g	600 kg	BFA 600K-1M	1790,-	127	5	○	●	○	●	●	●	●	●	○
200 g	600 kg	BFN 600K-1SM	2430,-	121	2	○	●	○	●	●	●	●	●	●
200 g	600 kg	NFN 600K–1M	2720,-	126	2	○	●	○	●	●	●	●	●	○
200 g	600 kg	BAN 600K-1SM	2790,-	128	5	○	●	○	●	●	●	●	●	○
200 g	600 kg	BBB 600K-1SM	3260,-	127	5	○	●	●	●	●	●	●	●	
200 g	600 kg	BBB 600K-1M	3650,-	127	5	○	●	●	●	●	●	●	●	
200 g	600 kg	BBN 600K-1SM	4740,-	128	2	○	●	●	●	●	●	●	●	
500 g	1,5 t	UFB 1.5T0.5M	820,-	123	2	○	●	●	●	●	●	●		○
500 g	1,5 t	UFA 1.5T0.5	850,-	122	2		●	●	●	●	●	●		○
500 g	1,5 t	BFB 1.5T0.5SM	1130,-	120	2	○	●	●	●	●	●			○
500 g	1,5 t	BFS 1T-4SM	1240,-	127	5	○	●	●	●	●	●			○
500 g	1,5 t	BFB 1.5T0.5M	1290,-	120	2	○	●	●	●	●	●	●		○
500 g	1,5 t	NFB 1.5T0.5M	1290,-	125	2	○	●	●	●	●	●	●		○
500 g	1,5 t	BXS 1.5T-4SM	1350,-	128	2	○	●	○	●	●	●	●	●	○
500 g	1,5 t	NFB 1.5T0.5LM	1390,-	125	2	○	●	●	●	●	●	●		○
500 g	1,5 t	BFA 1T-4SM	1390,-	127	5	○	●	○	●	●	●	●	●	○
500 g	1,5 t	BXS 1.5T-4M	1550,-	128	2	○	●	○	●	●	●	●	●	○
500 g	1,5 t	UFN 1.5T0.5IPM	1570,-	124	2	○	●	○	●	●	●	●	●	●
500 g	1,5 t	BFS 1T-4M	1620,-	127	5	○	●	●	●	●	●			○
500 g	1,5 t	BFA 1T-4M	1790,-	127	5	○	●	○	●	●	●	●	●	○
500 g	1,5 t	BFN 1T-4SM	2430,-	121	2	○	●	○	●	●	●	●	●	●
500 g	1,5 t	NFN 1.5T–4M	2720,-	126	2	○	●	○	●	●	●	●	●	○
500 g	1,5 t	BFN 1.5T0.5M	3080,-	121	2	○	●	○	●	●	●	●	●	●
500 g	1,5 t	BBB 1T-4SM	3280,-	127	5	○	●	●	●	●	●	●	●	
500 g	1,5 t	BAN 1T-4SM	3450,-	128	5	○	●	○	●	●	●	●	●	○
500 g	1,5 t	BAN 1T-4M	3450,-	128	5	○	●	○	●	●	●	●	●	○
500 g	1,5 t	BBB 1T-4M	3650,-	127	5	○	●	●	●	●	●	●	●	
500 g	1,5 t	BBN 1T-4SM	5390,-	128	2	○	●	●	●	●	●	●	●	
500 g	1,5 t	BBN 1T-4M	5390,-	128	2	○	●	●	●	●	●	●	●	
1000 g	3 t	UFA 3T1	850,-	122	2		●	●	●	●	●	●		○
1000 g	3 t	UFA 3T-3L	990,-	122	2		●	●	●	●	●	●		○
1000 g	3 t	BFB 3T1M	1290,-	120	2	○	●	●	●	●	●	●		○
1000 g	3 t	BFB 3T1LM	1490,-	120	2	○	●	●	●	●	●	●		○
1000 g	3 t	BXS 3T-3M	1550,-	128	2	○	●	○	●	●	●	●	●	○
1000 g	3 t	BFS 3T-3M	1620,-	127	5	○	●	●	●	●	●			○
1000 g	3 t	BFS 3T-3LM	1780,-	127	5	○	●	●	●	●	●			○
1000 g	3 t	BFA 3T-3M	1790,-	127	5	○	●	○	●	●	●	●	●	○
1000 g	3 t	BFA 3T-3LM	1930,-	127	5	○	●	○	●	●	●	●	●	○
1000 g	3 t	BFN 3T-3M	3150,-	121	2	○	●	○	●	●	●	●	●	●
1000 g	3 t	BAN 3T-3M	3480,-	128	5	○	●	○	●	●	●	●	●	○
1000 g	3 t	BBB 3T-3M	3650,-	127	5	○	●	●	●	●	●	●	●	
1000 g	3 t	BBB 3T-3LM	3820,-	127	5	○	●	●	●	●	●	●	●	
1000 g	3 t	BBN 3T-3M	5430,-	128	2	○	●	●	●	●	●	●	●	
2000 g	6 t	UFA 6T-3	1190,-	122	2		●	●	●	●	●	●		○
2000 g	6 t	UFA 6T-3L	1490,-	122	2		●	●	●	●	●	●		○
2000 g	6 t	BFB 6T-3M	1950,-	120	2	○	●	●	●	●	●	●		○
2000 g	6 t	BFS 6T-3M	2050,-	127	5	○	●	●	●	●	●			○
2000 g	6 t	BFA 6T-3M	2190,-	127	5	○	●	○	●	●	●	●	●	○
2000 g	6 t	BBB 6T-3M	4090,-	127	5	○	●	●	●	●	●	●	●	

● = Standard   ○ = Option

For an explanation on the pictos, see the front flap

12

Floor scale KERN BFB

Robust floor scale with EC type approval [M] – up to 6 t

Features

- **Weighing bridge made of non-slip steel chequer plate, lacquered**, overall height 80 mm
- **5 4 load cells steel, silicone-coated**, dust and spray protection IP67
- **Easy access to the junction box** from the top
- **Comfortable levelling of the weighing bridge** from above
- **Display device KERN KFB-TM**, for details see page 134
- **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
- 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 retrofitted, KERN KFB-A02, **€ 30,-**
- **1 Signal lamp** for visual support of weighing with tolerance range, for details see page 160, KERN CFS-A03, **€ 250,-**
- **2 Stand** to elevate display device, height of stand approx. 750 mm, similar to illustration, KERN BFS-A07, **€ 115,-**
- **Pair of base plates** to fix the weighing bridge to the floor, for models with weighing plate size
  A, B, C KERN BFS-A06, **€ 60,-**
  D KERN BFS-A10, **€ 60,-**
- **3 Stable pit frame** for weighing bridge installation, allowing for easy access for models with weighing plate size
  A WxD 1085x1085 mm, KERN BFS-A03, **€ 210,-**
  B WxD 1335x1585 mm, KERN BFS-A04, **€ 250,-**
  C WxD 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,-**

Note: With verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a base plates or a pit frame

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

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

- **Ascending ramp**, not included, for models with weighing plate size
  A WxDxH 1000x750x85 mm, KERN BFS-A01, **€ 280,-**
  B WxDxH 1250x750x85 mm, KERN BFS-A02, **€ 350,-**
  C WxDxH 1500x750x85 mm, KERN BFS-A09, **€ 380,-**
  D WxDxH 1500x750x121 mm, KERN BFS-A11, **€ 450,-**
- **Large display with superior display size**, Digit height 76 mm. WxDxH 541x55x180 mm, for details see page 160, KERN YKD-A02, **€ 200,-**
- **Cable with special length 15 m**, between display device and platform, must be ordered at purchase, KERN BFB-A03, **€ 150,-**
- **Suitable printers** and an extensive accessories range see page 157 ff.

STANDARD | CAL EXT | RS 232 | GLP PRINTER | PCS | SUM A | TOL | MOVE | IP 67 (5) | 230 V | DMS | 2 DAYS | 2 YEARS WARRANTY
OPTION | DAkkS +3 DAYS
FACTORY | ACCU | M +3 DAYS

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Options Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	kg		€	M KERN	€	DAkkS KERN	€
BFB 600K200SM	600	200	200	4000	85	A	1130,-	965-230	132,-	963-130	165,-
BFB 600K200M	600	200	200	4000	135	B	1310,-	965-230	132,-	963-130	165,-
BFB 1.5T0.5SM	1500	500	500	10000	85	A	1130,-	965-230	132,-	963-130	165,-
BFB 1.5T0.5M	1500	500	500	10000	135	B	1290,-	965-230	132,-	963-130	165,-
BFB 3T1M	3000	1000	1000	20000	135	B	1290,-	965-232	320,-	963-132	440,-
BFB 3T1LM	3000	1000	1000	20000	160	C	1490,-	965-232	320,-	963-132	440,-
BFB 6T-3M	6000	2000	2000	40000	210	D	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 BFN

PREMIUM
★★★

1

2

3

Note: With verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a base plates or a pit frame

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

Stainless steel floor scale in XL size with IP68 platform

Features

- **Weighing bridge entirely out of stainless steel**, extremely resistant to bending because of its high material thickness. Weighing plate fixed with stainless steel screws. Weighing bridge can also available as component without display device, KERN KFP-V40, for details see page 141
- **Easy access to the junction box** from the top
- 4 **Load cell stainless steel**, welded, IP68
- 5 **Display device KERN KFN-TM**, stainless steel, IP65, for details see page 136
- **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
- Your support for an **HACCP**-compliant quality system

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 266x165x96 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 75-100 cm, KERN BFN-A04, **€ 250,-**

- 2 **Ascending ramp**, stainless steel, incl. attachment plate to fix it to the weighing bridge, for models with weighing plate size A WxDxH 1250x750x85 mm, KERN BFN-A01, **€ 1020,-**
  B WxDxH 1000x750x85 mm, KERN BFN-A05, **€ 950,-**
- **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, **€ 730,-**
- **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, must be ordered at purchase, KERN BFB-A03, **€ 150,-**
- **Suitable printers** and further, extensive accessories from page 157 ff.

12

STANDARD												OPTION	FACTORY
CAL EXT	GLP PRINTER	PCS	SUM	TOL	MOVE	IP 65	IP 68	INOX	ACCU	230 V	DMS	2 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS	RS 232	M +3 DAYS

5   4

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Options			
								Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	kg	kg		€	M KERN	€	DAkkS KERN	€
BFN 600K-1SM NEW	600	200	200	4	85	A	**2430,-**	965-230	132,-	963-130	165,-
BFN 1T-4SM NEW	1500	500	500	10	85	A	**2430,-**	965-230	132,-	963-130	165,-
BFN 1.5T0.5M	1500	500	500	10	135	B	**3080,-**	965-230	132,-	963-130	165,-
BFN 3T-3M NEW	3000	1000	1000	20	190	B	**3150,-**	965-232	320,-	963-132	440,-

NEW New model

Weighing beams KERN UFA

Highly versatile weighing beams for large loads – now up to 6 t!

Features

- Ideal 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.)
- **Sturdy handles** for transporting the weighing beams
- **Weighing beams steel**, lacquered, solid steel construction, extremely resistant to bending
- **1 Load cells steel**, **silicone-coated**, IP67 protection
- **Display device KERN KFB-TM**, for details see page 134
- **2 Models with suffix -L:** Each weighing beam has a roller and handle for easy transport of the scale
- **Totalising** of weights and piece counts
- **Benchtop stand incl. wall mount** for display device as standard
- Weighing beams also available as components without the display device, for additional information see page 140

Technical data

- Large backlit LCD display, digit height 52 mm
- Weighing beams dimensions WxDxH
  - A 1200x120x100 mm
  - B 1200x163x80 mm
  - C 2000x120x100 mm
  - D 2100x160x85 mm
- Dimensions of display device WxDxH 250x160x58 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 retrofitted, KERN KFB-A02, **€ 30,-**
- **3 Stand** to elevate display device, height of stand approx. 750 mm, KERN BFS-A07, **€ 115,-**
- **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 160, KERN CFS-A03, **€ 250,-**
- **Large display with superior display size**, digit height 76 mm. WxDxH 541x55x180 mm, details see page 160, KERN YKD-A02, **€ 200,-**
- **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, for models with EC type approval, this must be ordered at the time of purchase, KERN BFB-A03, **€ 150,-**
- **Suitable printers** see page 157 ff.

STANDARD											OPTION	FACTORY
CAL EXT	RS 232	GLP PRINTER	PCS	SUM A	UNIT	TOL	MOVE	IP 67	230 V	DMS	2 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS	ACCU

Model KERN	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Net weight per beam kg	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	€
UFA 1.5T0.5	1500	500	500	± 1000	16	A	850,-	963-130	165,-
UFA 3T1	3000	1000	1000	± 2000	16	A	850,-	963-132	440,-
UFA 3T-3L	3000	1000	1000	± 2000	30	C	990,-	963-132	440,-
UFA 6T-3	6000	2000	2000	± 4000	39	B	1190,-	963-132	440,-
UFA 6T-3L	6000	2000	2000	± 4000	60	D	1490,-	963-132	440,-

Pallet scale KERN UFB

1190 mm

185 mm

90 mm

600 mm

840 mm

1

2
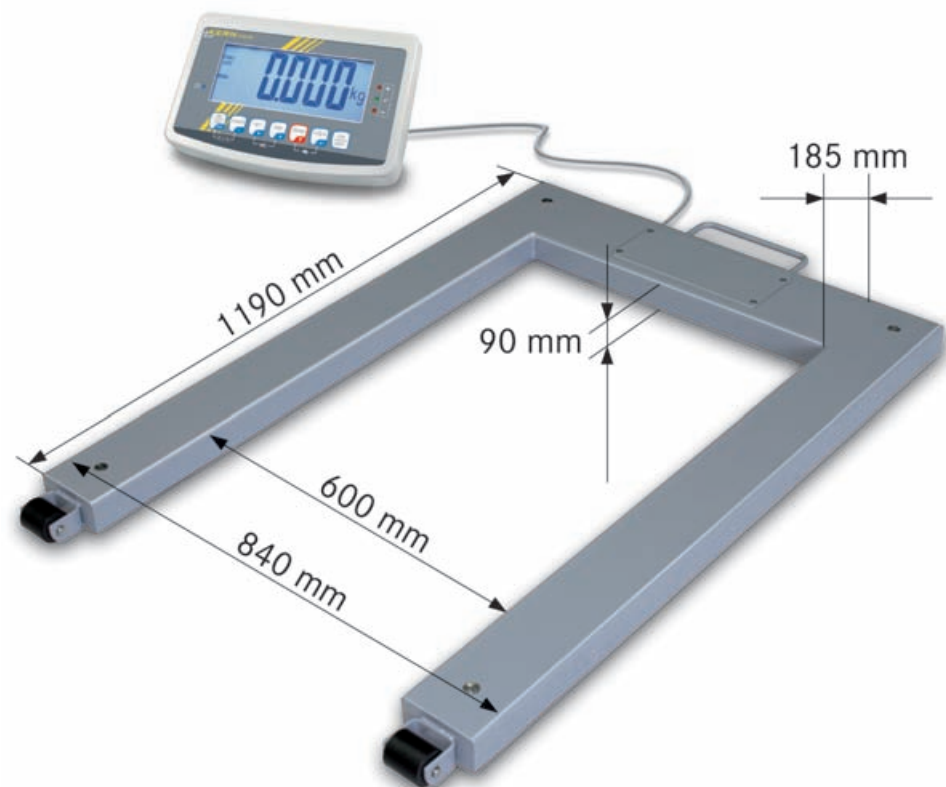
Mobile pallet scale with EC type approval [M]

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.)
- **2 rollers and handle** for easy transport of the scale
- **Weighing with tolerance range (check-weighing):** 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
- **Totalising** of weights
- 3 **4 load cells steel**, silicone-coated, IP67
- **Solid steel construction load support** lacquered, extremely resistant to bending. Also available as component without the display device, KERN KFU-V20, see page 140
- **Display device KERN KFB-TM**, for details see page 134

- A counting scale can be connected using the data interface, and this can be used to create a high-capacity counting system for counting very small parts in largest quantities

Technical data

- Large backlit LCD display, digit height 52 mm
- Cable length of display device approx. 5 m
- Dimensions of display device WxDxH 250x160x58 mm
- Net weight approx. 43 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard, can be retrofitted, KERN KFB-A02, **€ 30,-**
- 1 **Stand** to elevate display device, height of stand approx. 750 mm, similar to illustration, KERN BFS-A07, **€ 115,-**

Limited tare range with verifiable models (1/6 from [Max])
1 Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

- **Rechargeable battery pack internal**, operating time up to 35 h, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, **€ 35,-**
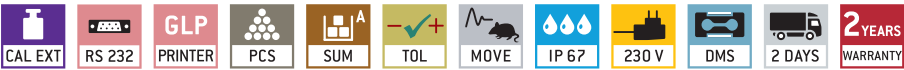- 2 **Signal lamp** for visual support of weighing with tolerance range, WxDxH 100x180x300 mm, see page 160, KERN CFS-A03, **€ 250,-**
- **Large display with superior display size**, digit height 76 mm, WxDxH 541x55x180 mm, for details see page 160, KERN YKD-A02, **€ 200,-**
- **Y cable** for parallel connection of two terminal devices to the RS-232 interface on the balance, 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 157 ff.

12

STANDARD											OPTION	FACTORY	
CAL EXT	RS 232	GLP PRINTER	PCS	SUM A	TOL	MOVE	IP 67	230 V	DMS	2 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS	ACCU / M +3 DAYS

3

Model	Weighing range	Readout	Verification value	Minimum load	Price excl. of VAT ex works	Options			
						Verification		DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	[e] g	[Min] kg	€	M KERN	€	DAkkS KERN	€
UFB 600K200M	600	200	200	4	**820,-**	965-230	132,-	963-130	165,-
UFB 1.5T0.5M	1500	500	500	10	**820,-**	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

1190 mm
840 mm
600 mm
185 mm
90 mm
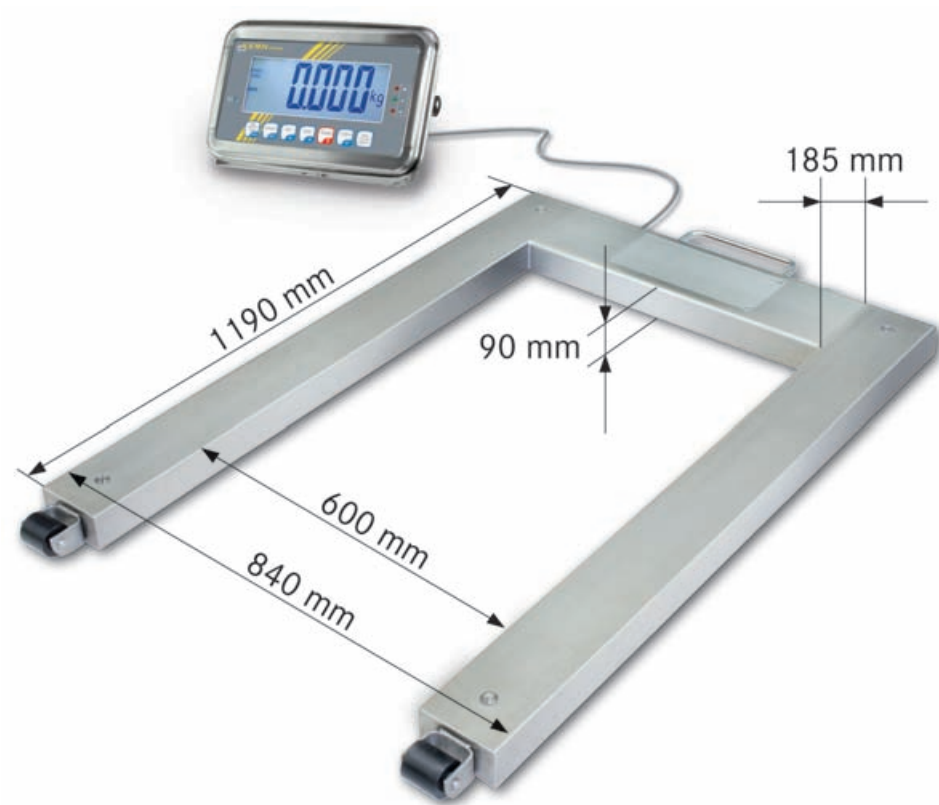
1

> ! Limited tare range with verifiable models (1/6 from [Max])
>
> ! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Mobile stainless steel pallet scale with EC type approval [M]

Features

- **High mobility:** thanks to battery operation and compact, flat construction, it is suitable for use in several locations (production, warehouse, dispatch department etc.)
- **2 rollers and handle** for easy transport of the scale
- **Vibration-free weighing:** when the weighing conditions are unstable, a stable weight is calculated as an average value
- **Weighing with tolerance range (check-weighing):** Input of an upper/lower limit value. A visual and audible signal assists with portioning dispensing or grading
- **Totalising** of weights
- Your support in an **HACCP**-compliant quality system
- 1 **4 load cells steel**, silicone-coated, IP67

- **Solid stainless steel construction load support** extremely resistant to bending. Also available as component without the display device, KERN KFU-V30, see page 140
- 2 **Display device KERN KFN-TM, stainless steel**, for details see page 136

Technical data

- Large backlit LCD display, digit height 52 mm
- Cable length of display device approx. 5 m
- Dimensions of display device WxDxH 266x165x96 mm
- Rechargeable battery pack internal, standard, operating time up to 35 h without backlight, charging time approx. 10 h
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Stand** to elevate display device, stainless steel, height-adjustable, height of stand 750-1000 mm, KERN BFN-A04, **€ 250,-**
- **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, must be ordered at purchase, KERN BFB-A03, **€ 150,-**
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD												OPTION	FACTORY	
CAL EXT	GLP PRINTER	SUM A	TOL	MOVE	IP 65	IP 67	INOX	ACCU	230 V	DMS	2 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS	RS 232 / M +3 DAYS
					2	1								

Model	Weighing range	Readout	Verification value	Minimum load	Price excl. of VAT ex works	Options			
						Verification		DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	[e] g	[Min] kg	€	M KERN	€	DAkkS KERN	€
UFN 600K200IPM	600	200	200	4	**1570,-**	965-230	132,-	963-130	165,-
UFN 1.5T0.5IPM	1500	500	500	10	**1570,-**	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.									

12

Drive-through scale KERN NFB

Industrial drive-through scale with two integrated access ramps 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 refuse bins etc.
- **Weighing bridge made of non-slip steel chequer plate, lacquered**, extremely resistant to bending. Also available as component without the display device, KERN KFD-V20, see page 139
- 🗓 **4 Load cells steel, silicone-coated**. Protection against dust and water splashes IP67, temporary use in wet areas is possible
- **Display device KERN KFB-TM**, details see page 134

Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions WxDxH
  - Ⓐ 1600x1200x78 mm
  - Ⓑ 1800x1400x78 mm
- Weighing surface, without access ramps WxD
  - Ⓐ 1000x1000 mm
  - Ⓑ 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 retrofitted, KERN KFB-A02, **€ 30,-**
- **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,-**
- ② **Stand** to elevate display device, height of stand approx. 750 mm, KERN BFS-A07, **€ 115,-**
- **Signal lamp** for visual support of weighing with tolerance range, WxDxH 100x180x300 mm, see page 160, KERN CFS-A03, **€ 250,-**
- **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 balance, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- **Large display with superior display size**, digit height 76 mm. WxDxH 541x55x180 mm, for details see page 160, KERN YKD-A02, **€ 200,-**
- **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 an extensive accessories range, see page 157 ff.

STANDARD											OPTION	FACTORY	
CAL EXT	RS 232	GLP PRINTER	PCS	SUM	TOL	MOVE	IP 67	230 V	DMS	2 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS	ACCU / M +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Minimum load [Min] kg	Verification value [e] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options Verification M KERN	€	DAkkS Calibr. Certificate DAkkS KERN	€
NFB 600K200M	600	200	4	200	131	Ⓐ	1290,-	965-230	132,-	963-130	165,-
NFB 600K200LM	600	200	4	200	150	Ⓑ	1390,-	965-230	132,-	963-130	165,-
NFB 1.5T0.5M	1500	500	10	500	131	Ⓐ	1290,-	965-230	132,-	963-130	165,-
NFB 1.5T0.5LM	1500	500	10	500	150	Ⓑ	1390,-	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 NFN

NEW

3

Note: For verified scales the weighing bridge must be fixed to the floor with a base plate pair

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

Stainless steel drive-through scale with two integrated access ramps 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.
- **Weighing bridge stainless steel**, extremely resistant to bending. Also available as component without the display device, KERN KFD-V40, see page 141
- **1 4 load cells steel, encapsulated**. Protection against dust and water splashes IP68, suitable for continuous use in wet areas
- Ideal for the ever-increasing hygienic requirements in the food, pharmaceutical and chemical industries
- Your support in an **HACCP**-compliant quality system
- **Totalising** of weights and piece counts

- **2** Display device KERN KFN-TM, stainless steel, details see page 136

Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions WxDxH 1600x1200x78 mm
- Weighing surface, without access ramps 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

- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN GAB-A04, **€ 40,-**

- **3 Stand** to elevate display device, stainless steel, height-adjustable, height of stand 750-1000 mm, KERN BFN-A04, **€ 250,-**
- **Data interface RS-232**, interface cable included, approx. 1.5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFN-A03, **€ 70,-**
- **Large display with superior display size**, digit height 76 mm. WxDxH 541x55x180 mm, for details see page 160, KERN YKD-A02, **€ 200,-**
- **Cable with special length 15 m**, between display device and platform, must be ordered at purchase, KERN BFB-A03, **€ 150,-**
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD												OPTION	FACTORY		
CAL EXT	GLP PRINTER	PCS	SUM	TOL	MOVE	IP 65	IP 68	INOX	230 V	DMS	2 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS	RS 232	ACCU	M +3 DAYS

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Price excl. of VAT ex works	Options			
						Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	€	M KERN	€	DAkkS KERN	€
NFN 600K-1M	600	200	200	4000	**2720,-**	965-230	132,-	963-130	165,-
NFN 1.5T-4M	1500	500	500	10000	**2720,-**	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.

12

Floor scales KERN BFA · BFS · BBB

... and that is not all: here is a small selection from the wide range of combination options for KERN floor scales

NEW

NEW

NEW
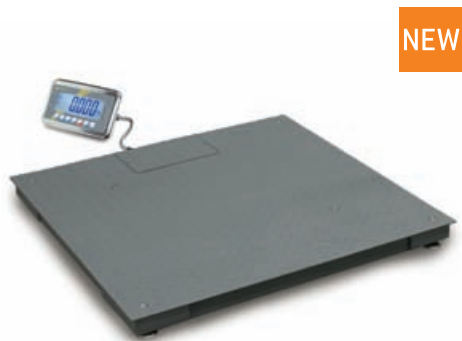
KERN BFA

IP67 floor scale with IP65 display, in stainless steel and EC type approval [M]

For all details and the full range of accessories, please see www.kern-sohn.com/en/BFA

KERN BFS

IP67 floor scale with piece-counting function, 99 memories and EC type approval [M]

For all details and the full range of accessories, please see www.kern-sohn.com/en/BFS
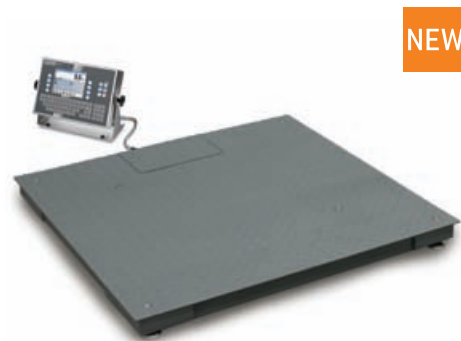
KERN BBB

State-of-the-art premium touchscreen floor scale with the complete range of functions for demanding processes

For all details and the full range of accessories, please see www.kern-sohn.com/en/BBB

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Minimum load [Min] g	Net weight approx. kg	Dimensions of weighing plate WxDxH mm	Price excl. of VAT ex works €	Options Verification M KERN	Verification €	DAkkS Calibr. Certificate DAkkS KERN	DAkkS Calibr. Certificate €
Complete device consisting of the KERN KFN-TM and weighing bridge KERN KFP V20 IP67, for further information, see p. 136, 139											
BFA 600K-1SM	600	200	200	4000	85	1000 x 1000 x 80	1390,-	965-230	132,-	963-130	165,-
BFA 600K-1M	600	200	200	4000	135	1500 x 1250 x 80	1790,-	965-230	132,-	963-130	165,-
BFA 1T-4SM	1500	500	500	10000	85	1000 x 1000 x 80	1390,-	965-230	132,-	963-130	165,-
BFA 1T-4M	1500	500	500	10000	135	1500 x 1250 x 80	1790,-	965-230	132,-	963-130	165,-
BFA 3T-3M	3000	1000	1000	20000	135	1500 x 1250 x 80	1790,-	965-232	320,-	963-132	440,-
BFA 3T-3LM	3000	1000	1000	20000	160	1500 x 1500 x 80	1930,-	965-232	320,-	963-132	440,-
BFA 6T-3M	6000	2000	2000	40000	210	1500 x 1500 x 130	2190,-	965-232	320,-	963-132	440,-
Complete device consisting of the KERN KFS-TM and weighing bridge KFP V20 IP67, for further information, see p. 135, 139											
BFS 600K-1SM	600	200	200	4000	85	1000 x 1000 x 80	1240,-	965-230	132,-	963-130	165,-
BFS 600K-1M	600	200	200	4000	135	1500 x 1250 x 80	1620,-	965-230	132,-	963-130	165,-
BFS 1T-4SM	1500	500	500	10000	85	1000 x 1000 x 80	1240,-	965-230	132,-	963-130	165,-
BFS 1T-4M	1500	500	500	10000	135	1500 x 1250 x 80	1620,-	965-230	132,-	963-130	165,-
BFS 3T-3M	3000	1000	1000	20000	135	1500 x 1250 x 80	1620,-	965-232	320,-	963-132	440,-
BFS 3T-3LM	3000	1000	1000	20000	160	1500 x 1500 x 80	1780,-	965-232	320,-	963-132	440,-
BFS 6T-3M	6000	2000	2000	40000	210	1500 x 1500 x 130	2050,-	965-232	320,-	963-132	440,-
Complete device consisting of the KERN KEN-TM and weighing bridge KERN KFP V20 IP67, for further information, see p. 137, 139											
BBB 600K-1SM	600	200	200	4000	85	1000 x 1000 x 80	3260,-	965-230	132,-	963-130	165,-
BBB 600K-1M	600	200	200	4000	135	1500 x 1250 x 80	3650,-	965-230	132,-	963-130	165,-
BBB 1T-4SM	1500	500	500	10000	85	1000 x 1000 x 80	3280,-	965-230	132,-	963-130	165,-
BBB 1T-4M	1500	500	500	10000	135	1500 x 1250 x 80	3650,-	965-230	132,-	963-130	165,-
BBB 3T-3M	3000	1000	1000	20000	135	1500 x 1250 x 80	3650,-	965-232	320,-	963-132	440,-
BBB 3T-3LM	3000	1000	1000	20000	160	1500 x 1500 x 80	3820,-	965-232	320,-	963-132	440,-
BBB 6T-3M	6000	2000	2000	40000	210	1500 x 1500 x 130	4090,-	965-232	320,-	963-132	440,-

Floor scales KERN BXS · BAN · BBN

... and that is not all: here is a small selection from the wide range of combination options for KERN floor scales

KERN BXS

IP67 floor scale with IP68 stainless steel display device and EC type approval [M], detachable weighing plate

For all details and the full range of accessories, please see www.kern-sohn.com/en/BXS

STANDARD

| CAL EXT | GLP PRINTER | PCS | SUM | TOL | MOVE | IP 67 | IP 68 | INOX |

STANDARD · OPTION

| 230 V | DMS | 2 DAYS | 3 YEARS WARRANTY | DAkkS +3 DAYS |

FACTORY

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

KERN BAN

Stainless steel floor scale with IP68 protection against dust and water splashes, extra large platform and EC type approval [M]

For all details and the full range of accessories, please see www.kern-sohn.com/en/BAN

STANDARD

| CAL EXT | GLP INTERN | PCS | SUM | TOL | MOVE | IP 68 | INOX | 230 V |

STANDARD · OPTION

| DMS | 5 DAYS | 3 YEARS WARRANTY | DAkkS +3 DAYS |

FACTORY

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

KERN BBN

State-of-the-art premium touchscreen stainless steel floor scale with the complete range of functions for demanding processes

For all details and the full range of accessories, please see www.kern-sohn.com/en/BBN

STANDARD

| CAL EXT | MEMORY | RS 232 | USB | SWITCH | LAN | GLP INTERN | PCS | SUM |

STANDARD

| PERCENT | TOL | MOVE | IP 66 | INOX | 230 V | DMS | 2 DAYS | 3 YEARS WARRANTY |

OPTION · FACTORY

| DAkkS +3 DAYS | DUAL | M +3 DAYS |

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Minimum load [Min] g	Net weight approx. kg	Dimensions of weighing plate WxDxH mm	Price excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
								M KERN	€	DAkkS KERN	€
Complete device consisting of the KERN KXS-TM and weighing bridge KERN KXP V20 IP67, for further information, see p. 136, 138											
BXS 600K-1SM	600	200	200	4000	105	1000 x 1000 x 80	**1350,-**	965-230	132,-	963-130	165,-
BXS 600K-1M	600	200	200	4000	135	1500 x 1250 x 80	**1550,-**	965-230	132,-	963-130	165,-
BXS 1.5T-4SM	1500	500	500	20000	105	1000 x 1000 x 80	**1350,-**	965-230	132,-	963-130	165,-
BXS 1.5T-4M	1500	500	500	20000	135	1500 x 1250 x 80	**1550,-**	965-230	132,-	963-130	165,-
BXS 3T-3M	3000	1000	1000	20000	135	1500 x 1250 x 80	**1550,-**	965-232	320,-	963-132	440,-
Complete device consisting of the KERN KXS-TM and weighing bridge KERN KFP V40 IP68, for further information, see p. 136, 141											
BAN 600K-1SM	600	200	200	20000	85	1000 x 1000 x 80	**2790,-**	965-230	132,-	963-130	165,-
BAN 1T-4SM	1500	500	500	20000	85	1000 x 1000 x 80	**3450,-**	965-230	132,-	963-130	165,-
BAN 1T-4M	1500	500	500	20000	135	1500 x 1250 x 80	**3450,-**	965-230	132,-	963-130	165,-
BAN 3T-3M	3000	1000	1000	20000	135	1500 x 1250 x 80	**3480,-**	965-232	320,-	963-132	440,-
Complete device consisting of the KERN KEN-TM and weighing bridge KERN KFP V40 IP68, for further information, see p. 137, 141											
BBN 600K-1SM	600	200	200	4000	85	1000 x 1000 x 80	**4740,-**	965-230	132,-	963-130	165,-
BBN 1T-4SM	1500	500	500	10000	85	1000 x 1000 x 80	**5390,-**	965-230	132,-	963-130	165,-
BBN 1T-4M	1500	500	500	10000	135	1500 x 1250 x 80	**5390,-**	965-230	132,-	963-130	165,-
BBN 3T-3M	3000	1000	1000	20000	135	1500 x 1250 x 80	**5430,-**	965-232	320,-	963-132	440,-

Axle load scales

VHP	130

Modular axle load scale for the mobile monitoring of vehicles up to 15 tons

Over the legal limit!

Axle load or wheel load scales are an ideal weighing solution for the mobile wieghing of trucks, trailers, small airplanes and similar, 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 bring about inconsistencies then a second measurement can be carried out on a verified vehicle scale.

Compared with fixed vehicle scales axle load scales are usually more affordable do 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. Subsequently the individual wheel weight, the weight of the axle or the total weight of the vehicle can be displayed or transferred to a printer or PC when connected via the data interface.

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 a wide range of different combination and can therefore be adapted quickly to suit the on-site conditions:

Your KERN product specialist will be happy to help:

Stephan Ade
Product specialist Axle load scales

Tel.   +49 [0] 7433 9933 – 121
Fax   +49 [0] 7433 9933 – 29121
ade@kern-sohn.com

Application examples:

Weighing aircraft landing gear	Asynchronous weighing of individual axles	Asynchronous weighing of double axles which are installed next to each other, using compensation pads	Simultaneous weighing of double axles, e.g. of a trailer
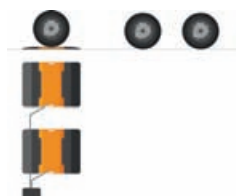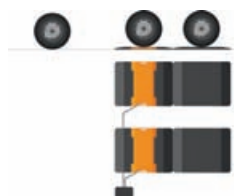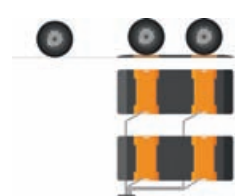
Quick-Finder Axle load scales

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	7150,-	130	2	●	○
10 kg	15 t	VHP 15T-2	7150,-	130	2	●	○

● = Standard   ○ = Option

Axle load scale KERN VHP

NEW

Modular axle load scale for the mobile monitoring of vehicles up to 15 tons

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 maximum permissible flight mass is not exceeded and that the airplane is correctly loaded

Axle load scale KERN VHP
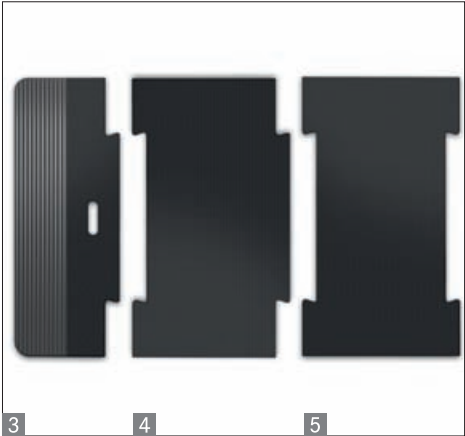
Features

- **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** in stable, lined transport case. 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
- **2 Weighing pad - 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** 2 rollers and 2 handles for easy transport of the weighing pad
- **2** 6 Load cells, aluminium, silicone-coated, IP65
- The standard scope of supplies (see technical data) can be complemented with further weighing pads, ramp extensions and equalising platforms (see accessories). Like this the system can be adapted to cover a wide range of applications.

  Do you have questions or special requests? Your KERN product specialist will be happy to help

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
- 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**

Accessories

- **3 Ascending ramp** (see application examples on page 129), extremely resistant rubber compound, dimensions WxDxH 900x250x35 mm, KERN VHP-A01, **€ 220,-**
- **4 Ramp extension** (see application examples on page 129), extremely resistant rubber compound, dimensions WxDxH 900x545x35 mm, KERN VHP-A02, **€ 310,-**
- **5 Compensation pad** (see application examples on page 129), extremely resistant rubber compound, dimensions WxDxH 900x545x35 mm, KERN VHP-A03, **€ 310,-**
- **Weighing pad, to expand the weighing system VHP** (see application examples on page 129), 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, **€ 2750,-** VHP 15T-2: [Max] = 7500 kg, [d] = 10 kg, KERN KHP 7500V20LM, **€ 2750,-**
- **Thermal receipt rolls** (10 pieces), suitable for the thermal transfer printer integrated in display device, length approx. 13 mm, width 57 mm, Ø 51 mm, KERN RFS-A10, **€ 35,-**
- **DAkkS calibration certificate** (German accreditation authority (for both pads), see table. DAkkS calibration certificate for one pad, see page 186

13

STANDARD							OPTION
CAL EXT	UNIT	IP 65	ACCU	DMS	2 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS
		2					

Model	Weighing range	Readout	Weighing pads included with delivery	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] kg	[Max] kg	€	DAkkS KERN	€
VHP 6T-3	6000	5	2 x 3000	**7150,-**	963-132A	880,-
VHP 15T-2	15000	10	2 x 7500	**7150,-**	963-133A	1000,-

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 133

• 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 191 – 192*

Your KERN product specialist will be happy to help:

Stephan Ade
Product specialist
Display devices / Platforms / Weighing bridges

Tel.   +49 [0] 7433 9933- 121
Fax   +49 [0] 7433 9933- 29121
ade@kern-sohn.com
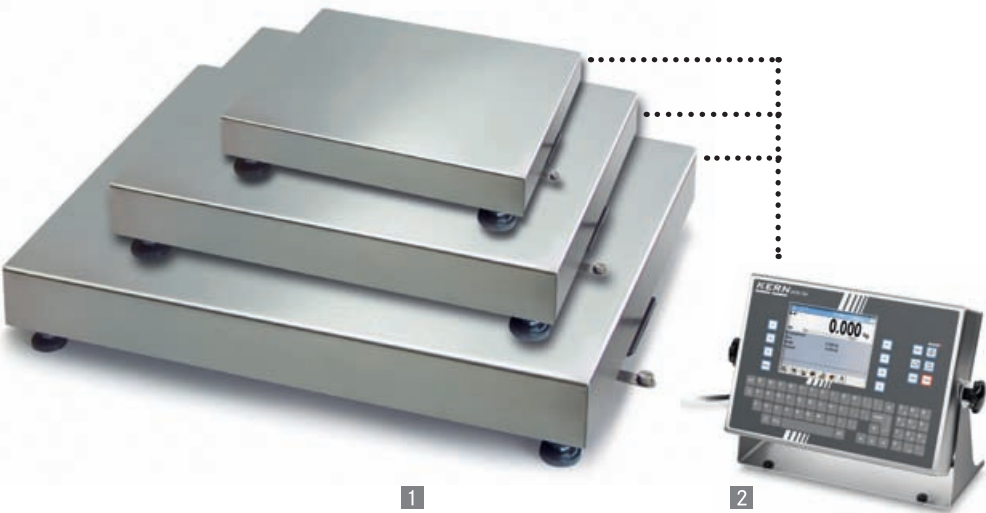
KERN Components

1

2

Components for individual scale combinations

STANDARD   FACTORY

Services Installation of platform and display device. DAkkS calibration certificate for free of charge for complete scales	Model KERN	Price excl. of VAT, ex works €
1 KERN Platforms, see page 138 – 141		
2 KERN Display devices, see page 134 – 137		
Assembly to complete scale		
3 Weighing ranges max ≤ 150 kg	965-411	70,-
3 Weighing ranges max > 150 – 600 kg	965-412	100,-
3 Weighing ranges max > 600 – 1500 kg	965-413	120,-
3 Weighing ranges max > 1500 kg	965-414	150,-
Additional price for ex works verification		
4 Proof of compatibility	965-240	45,-
5 Weighing ranges max ≤ 5 kg	965-227	55,-
5 Weighing ranges max > 5 kg – 50 kg	965-228	55,-
5 Weighing ranges max > 50 kg – 350 kg	965-229	93,-
5 Weighing ranges max > 350 kg – 1500 kg	965-230	132,-
5 Weighing ranges max > 1500 kg – 3000 kg	965-232	320,-

Order example Platform **KFP 30V20M** and display device **KEN-TM**	Model KERN	Price excl. of VAT, ex works €
1 KERN Platform	KFP 30V20M	195,-
2 KERN Display device	KEN-TM	1950,-
Assembly to complete scale		
3 Weighing ranges max ≤ 150 kg	965-411	70,-
4 Proof of compatibility	965-240	45,-
5 Verification ex works KERN	965-228	55,-
Complete scale (verified)		2315,-

For further combinations within the KERN product range, please ask for details.

Consultation service on verification for individual scale combinations

Information for specialist scale companies:

When display devices (terminals) with EC-Type approval and weighing bridges (e.g. pallet scales, floor scales or drive-through scales) with EC-Type approval are combined to a complete unit, then this weighing system can be verified as a class III commercial scale.

For this procedure KERN offers the following support:

• 4 **Proof of compatibility:** To confirm whether combinations of weighing modules such as display devices, load cells and connecting elements are appropriate for verification. We would be pleased to perform this for your application.
• **Authorisation to initial verification by the manufacturer:** We will support you in your preparations for verification, issuing the declaration of conformity and being involved in the manufacturer's initial verification
• **Issuing of declaration of conformity** upon evaluation for conformity (manufacturer's initial verification)

Pallet scales

Floor scales

Drive-through scales

14

Display devices KERN KXE-TM · KFB-TM

1 KERN KXE-TM

Affordable display device with EC type approval [M]

2 KERN KFB-TM

Display device with large digits – easy to read

STANDARD | FACTORY

| CAL EXT | SUM | MOVE | 230 V | 1 DAY | 2 YEARS WARRANTY | M |

STANDARD

| CAL EXT | RS 232 | PCS | SUM | TOL | MOVE | 230 V | 1 DAY | 2 YEARS WARRANTY |

OPTION | FACTORY

| ACCU | M |

KERN display devices for many platforms – innovative technology, to set up your own weighing system. Can be used in any combination, e.g. with all platforms on page 138 – 141

Features	Models KERN	
	1 KERN KXE-TM*	2 KERN KFB-TM
Display (segments)	6 digits	5 + ½ digits
EC type approval	yes	yes
Resolution verifiable	3.000 e	6.000 e
Resolution non verifiable	30.000 d	30.000 d
Weighing ranges	≤ 2	≤ 2
Weighing units	kg	kg
Read-out	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	–	10, 20, 50, 100, 200
Display, digit height	backlit LCD display, 25 mm	backlit LCD display, 52 mm
Additional functions	Data hold function, PRE-TARE function	Totalizing, HOLD function
Strain gauge load cells	87 – 1600 Ω	87 – 1600 Ω
Linearisation	–	2 points
Input voltage	120 – 230 V, 50 / 60 Hz	12 V / 500 mA
Permissible ambient temperature	0 °C / 40 °C	-10° C / 40° C (verified)
Interface RS-232	–	yes
Interface Bluetooth	–	–
Stand	–	BFS-A07, see page 120, **€ 115,-**
Benchtop stand for display device/Wall mount	yes / yes	yes / yes
Protective working cover	–	KFB-A02, see page 108, **€ 30,-**
Rechargeable battery pack	–	KFB-A01, see page 108, **€ 35,-**
Operating / charging time	–	approx. 35 h / 12 h
Dimensions Housing WxDxH	193x94x50 mm	250x160x58 mm
Net weight	1 kg	1,5 kg
Price excl. of VAT, ex works €	**90,-**	**190,-**

! *ONLY WHILE STOCKS LAST!

→ Note: If display devices and platforms (weighing bridges) with EC type approval [M] are combined to a complete unit, this weighing system can be verified in the EU as a class III commercial scale. For further details see page 133.

Display devices KERN KFS-TM · KXG-TM

NEW

❸ KERN KFS-TM

Professional indicator with 3 displays,
now with EC type approval

NEW

❹ KERN KXG-TM

IP68 display device with integrated
power supply

STANDARD

| CAL EXT | MEMORY | RS 232 | GLP INTERN | PCS | SUM A | PERCENT | UNIT | TOL |

STANDARD | OPTION | FACTORY

| 230 V | 1 DAY | 2 YEARS WARRANTY | ACCU | M |

STANDARD

| CAL EXT | PCS | SUM A | UNIT | TOL | MOVE | IP 68 | 230 V | 1 DAY |

STANDARD | OPTION | FACTORY

| 2 YEARS WARRANTY | RS 232 | RS 485 | BT | ACCU | M |

KERN display devices for many platforms – innovative technology, to set up your own weighing system. Can be used in any combination, e.g. with all platforms on page 138 – 141

Features	Models KERN	
	❸ KERN KFS-TM	❹ KERN KXG-TM
Display (segments)	6 digits	6 digits
EC type approval	yes	yes
Resolution verifiable	3.000 e	10.000 e
Resolution non verifiable	60.000 d	30.000 d
Weighing ranges	≤ 2	≤ 2
Weighing units	kg	kg
Read-out	1, 2, 5, ... 10, n	1, 2, 5, 10, 20, 50
Piece counting with reference	n	10, 20, 50, 100, 200
Display, digit height	backlit LCD display, 13/16,5 mm	backlit LCD display, 55 mm
Additional functions	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
Linearisation	4 points	2-7 points
Input voltage	12 V / 500 mA	110 – 230 V AC
Permissible ambient temperature	0 °C / 40 °C	-10°C / 40° C (not verified)
Interface RS-232	yes	KXS-A04, € 40,-
Interface RS-485	–	KXS-A01, € 80,-
Interface Bluetooth	–	KXS-A02, € 100,- (Scale ➜ PC)
Foot switch	–	KXS-A03, € 65,-
Stand	BFS-A07, see page 120, € 115,-	–
Benchtop stand for display device/Wall mount	yes / yes	yes / yes
Protective working cover	KFB-A02, see page 94, € 30,-	–
Rechargeable battery pack	KFS-A01, see page 94, € 35,-	GAB-A04, € 40,-
Operating / charging time	approx. 40 h / 12 h	80 h / 12 h
Dimensions Housing WxDxH	260x150x65 mm	323x170x80 mm
Net weight	1,5 kg	2 kg
Price excl. of VAT, ex works €	**200,-**	**210,-**

➜ Note: If display devices and platforms (weighing bridges) with EC type approval [M] are combined to a complete unit, this weighing system can be verified in the EU as a class lll commercial scale. For further details see page 133.

14

Display devices KERN KFE-TM · KFN-TM · KXS-TM

⑤ KERN KFE-TM

Stainless steel display device with IP65 protection

⑥ KERN KFN-TM

Stainless steel display device with IP65 protection and superior display size

⑦ KERN KXS-TM

Stainless steel display device with IP68 protection and integrated power supply
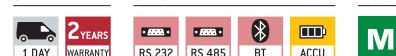
KERN display devices for many platforms – innovative technology, to set up your own weighing system. Can be used in any combination, e.g. with all platforms on page 138 – 141

Features	Models KERN		
	⑤ KERN KFE-TM	⑥ KERN KFN-TM	⑦ 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, verified	-10 °C / 40 °C	-10° C / 40° C	-10°C / 40° C
Interface RS-232	–	KFN-A01, see page 75, **€ 95,-**	KXS-A04, **€ 40,-**
Interface RS-485	–	–	KXS-A01, **€ 80,-**
Interface Bluetooth	–	–	KXS-A02, **€ 100,-** (Balance ➔ PC)
Foot switch	–	–	KXS-A03, **€ 65,-**
Stand	–	BFS-A07, see page 120, **€ 115,-**	–
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 €	**230,-**	**270,-**	**250,-**

➔ Note: If display devices and platforms (weighing bridges) with EC type approval [M] are combined to a complete unit, this weighing system can be verified in the EU as a class III commercial scale. For further details see page 133.

Display devices KERN KET-TM · KEN-TM

NEW

⑧ KERN KET-TM

State-of-the-art touchscreen display

STANDARD

MEMORY · RS 232 · USB · SWITCH · LAN · GLP INTERN · PCS · SUM · PERCENT

STANDARD

UNIT · TOL · MOVE · 230 V · 1 DAY · 3 YEARS WARRANTY

FACTORY

M

NEW

⑨ KERN KEN-TM

State-of-the-art stainless steel touch-screen display with alphanumeric keyboard

STANDARD

MEMORY · RS 232 · USB · SWITCH · DUAL · LAN · GLP INTERN · PCS · SUM

STANDARD

PERCENT · UNIT · TOL · MOVE · IP 66 · INOX · 230 V · 1 DAY · 3 YEARS WARRANTY

FACTORY

M

KERN display devices for many platforms – innovative technology, to set up your own weighing system. Can be used in any combination, e.g. with all platforms on page 138 – 141

Features	Models KERN	
	⑧ KERN KET-TM	⑨ 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	Password protection, user profile, alibi memory	Password protection, user profile, alibi memory
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, verified	-10 °C / 40 °C	-10 °C / 40 °C
Interface RS-232	yes	yes
Interface USB	yes	yes
Interface DIGITAL I/O	yes	yes
Interface DUAL	–	yes
Interface LAN	yes	yes
Interface Bluetooth	–	–
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	–	–
Dimensions Housing WxDxH	215x156x71 mm	282x200x76 mm
Net weight	0,65 kg	4,5 kg
Price excl. of VAT, ex works €	**1350,-**	**1950,-**

→ Note: If display devices and platforms (weighing bridges) with EC type approval [M] are combined to a complete unit, this weighing system can be verified in the EU as a class lll commercial scale. For further details see page 133.

14

Platforms / Weighing bridges KERN KFP · KXP
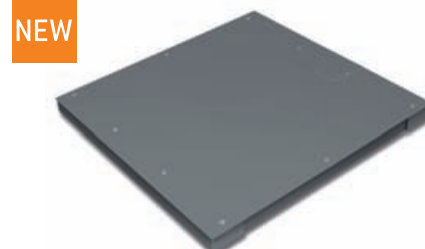
① KERN KFP V20 IP65

Platform

STANDARD | FACTORY
IP 65 | 2 DAYS | 2 DAYS | 2 YEARS WARRANTY | M
nur KFP 600

- **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 | FACTORY
IP 65 | 2 DAYS | 2 YEARS WARRANTY | 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

③ KERN KXP V20 IP67

NEW

Weighing bridge

STANDARD | FACTORY
IP 67 | 2 DAYS | 2 YEARS WARRANTY | M

- **Weighing bridge steel,** lacquered, extremely resistant to bending. Painted steel base
- **4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification,** class III, 3000 e
- Possible installation in pit frame
- **Easy access to the junction box** from the top
- **Screwed and therefore, easily removable weighing plate**
- Accessories page 128 (KERN BXS)

Can be used in any combination, e.g. with all display devices on page 134 – 137

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Min. load [Min] g	Add. preload kg	Cabel 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	**145,-**
KFP 6V20LM	6	2	2	40	2	2,5	4,6	300x240x110	**165,-**
KFP 15V20M	15	5	5	100	2	2,5	4,6	300x240x110	**165,-**
KFP 15V20LM	15	5	5	100	5	2,5	9,7	400x300x128	**195,-**
KFP 30V20M	30	10	10	200	5	2,5	9,7	400x300x128	**195,-**
KFP 60V20M	60	20	20	400	5	2,5	9,7	400x300x128	**195,-**
KFP 60V20LM	60	20	20	400	7	2,5	12,5	500x400x137	**240,-**
KFP 150V20M	150	50	50	1000	7	2,5	12,5	500x400x137	**240,-**
KFP 150V20LM	150	50	50	1000	11	2,5	20,75	650x500x142	**430,-**
KFP 300V20M	300	100	100	2000	10	2,5	20,75	650x500x142	**420,-**
KFP 600V20AM	600	200	200	4000	20	3	50	800x600x150	**710,-**
② Platform KXP V20 IP65									
KXP 6V20LM	6	2	2	40	2	3	3,2	300x240x90	**180,-**
KXP 15V20M	15	5	5	100	2	3	2,2	300x240x96	**180,-**
KXP 30V20M	30	10	10	200	10	3	7,5	400x300x89	**210,-**
KXP 30V20M	30	10	10	200	5	3	17,5	500x400x132	**320,-**
KXP 60V20M	60	20	20	400	10	3	7,5	400x300x90	**210,-**
KXP 60V20LM	60	20	20	400	10	3	17,5	500x400x123	**320,-**
KXP 150V20M	150	50	50	1000	10	3	18	500x400x123	**320,-**
KXP 150V20LM	150	50	50	1000	10	3	32,4	650x500x133,5	**450,-**
KXP 300V20M	300	100	100	1000	20	3	32,5	650x500x133,5	**430,-**
③ Weighing bridge KXP V20 IP67									
KXP 600V20SM	600	200	200	4000	120	5	105	1000x1000x80	**1350,-**
KXP 600V20M	600	200	200	4000	120	5	135	1500x1250x80	**1350,-**
KXP 1500V20SM	1500	500	500	10000	300	5	105	1000x1000x80	**1350,-**
KXP 1500V20M	1500	500	500	10000	300	5	135	1500x1250x80	**1350,-**
KXP 3000V20M	3000	1000	1000	20000	500	5	135	1500x1250x80	**1350,-**

For more information, please visit www.kern-sohn.com/en · Order hotline +49 [0] 7433 9933-0

14

Weighing bridges KERN KFP · KFD

④ KERN KFP V20 IP67

Weighing bridge

STANDARD
IP 67 | 2 DAYS | 3 YEARS WARRANTY

FACTORY
M

- **Weighing bridge made of non-slip steel chequer plate,** lacquered, extremely resistant to bending. Painted steel base
- **4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification,** class III, 3000 e
- Possible installation in pit frame
- **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 120 (KERN BFB)
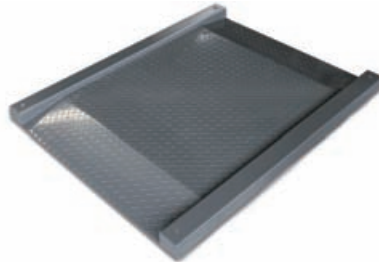
⑤ KERN KFD V20

Weighing bridge

STANDARD
IP 67 | 2 DAYS | 3 YEARS WARRANTY

FACTORY
M

- **Weighing bridge made of non-slip steel chequer 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 125 (KERN NFB)

Can be used in any combination, e.g. with all display devices on page 134 – 137

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Min. load [Min] g	Add. preload kg	Cabel length approx. m	Net weight approx. kg	Weighing plate mm	Price excl. VAT, ex works €
④ **Weighing bridge KFP V20 IP67**									
KFP 600V20SM	600	200	200	4000	120	5	105	1000x1000x80	**830,-**
KFP 600V20M	600	200	200	4000	120	5	175	1500x1250x80	**1190,-**
KFP 1500V20SM	1500	500	500	10000	300	5	105	1000x1000x80	**850,-**
KFP 1500V20M	1500	500	500	10000	300	5	175	1500x1250x80	**1200,-**
KFP 3000V20M	3000	1000	1000	20000	500	5	175	1500x1250x80	**1190,-**
KFP 3000V20LM	3000	1000	1000	20000	500	5	195	1500x1500x80	**1340,-**
KFP 6000V20M	6000	2000	2000	40000	1000	5	175	1500x1500x130	**1730,-**
⑤ **Drive-through scale KFD V20**									
KFD 600V20M	600	200	200	4000	0	0	130	1600x1200x78	**1240,-**
KFD 600V20LM	600	200	200	4000	120	5	175	1800x1400x78	**1340,-**
KFD 1500V20M	1500	500	500	10000	300	5	130	1600x1200x78	**1240,-**
KFD 1500V20LM	1500	500	500	10000	300	5	175	1800x1400x78	**1340,-**

14

Weighing beams / U-Weighing bridges KERN KFA · KFU

6 KERN KFA V20

Weighing beams

STANDARD			FACTORY
IP 67	2 DAYS	3 YEARS WARRANTY	M

- **Weighing beams and painted steel base**
- **4 load cells, alloy steel, silicone-coated, IP67**
- **Levelling feet** for precise levelling of the weighing beams
- 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 122 (KERN UFA)

7 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 123 (KERN UFB)

8 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 124 (KERN UFN)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Min. load [Min] g	Add. preload kg	Cabel length approx. m	Net weight approx. kg	Weighing plate mm	Price excl. VAT, ex works €
6 **Weighing beams KFA V20**									
KFA 1500V20	1500	500	–	–	300	5	32	2x 1200x120x100	800,-
KFA 3000V20	3000	1000	–	–	500	5	35	2x 1200x120x100	800,-
KFA 3000V20L	3000	1000	–	–	500	5	64	2x 2000x120x100	940,-
KFA 6000V20	6000	2000	–	–	500	5	82	2x 1200x163x80	1140,-
KFA 6000V20L	6000	2000	–	–	500	5	125	2x 2000x160x85	1440,-
7 **U-Weighing bridge KFU V20**									
KFU 600V20M	600	200	200	4000	120	5	41	842x1300x90	750,-
KFU 1500V20M	1500	500	500	10000	300	5	41	842x1300x90	750,-
8 **Stainless steel U-Weighing bridge KFU V30**									
KFU 600V30M	600	200	200	4000	120	5	42	842x1300x90	1450,-
KFU 1500V30M	1500	500	500	10000	300	5	42	842x1300x90	1450,-

14

Platforms / Weighing bridges KERN KFP · KFD

9 KERN KFP V30

Platform

STANDARD

| IP 67 | INOX | 2 DAYS | 3 YEARS WARRANTY |

FACTORY

| M |

- 9 **Stainless steel-weighing plate,**
  C 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

10 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
- 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
- Possible installation in pit frame
- **Level indicator and levelling feet** for precise levelling of the scale
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 121 (KERN BFN)

11 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 126 (KERN NFN)

Can be used in any combination, e.g. with all display devices on page 134 – 137

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Min. load [Min] g	Add. preload kg	Cabel length approx. m	Net weight approx. kg	Weighing plate mm	Price excl. VAT, ex works €
9 Stainless steel platform KFP V30									
KFP 15V30M	15	5	5	100	2	2,5	4,6	300x240x96	440,-
KFP 30V30M	30	10	10	200	5	2,5	9,7	400x300x128	480,-
KFP 60V30M	60	20	20	400	5	2,5	9,7	400x300x128	470,-
KFP 60V30LM	60	20	20	400	7	2,5	14,3	500x400x137	590,-
KFP 60V30XLM	60	20	20	400	10	2,5	20,75	650x500x142	890,-
KFP 150V30SM	150	50	50	1000	5	2,5	9,7	400x300x128	490,-
KFP 150V30M	150	50	50	1000	7	2,5	14,3	500x400x137	590,-
KFP 150V30LM	150	50	50	1000	10	2,5	20,75	650x500x142	870,-
KFP 300V30M	300	100	100	2000	10	2,5	20,75	650x500x142	870,-
10 Stainless steel weighing bridge KFP V40									
KFP 600V40SM	600	200	200	4000	80	5	85	1000x1000x80	2400,-
KFP 1500V40SM	1500	500	500	10000	160	5	85	1000x1000x80	3070,-
KFP 1500V40M	1500	500	500	10000	160	5	175	1500x1250x80	2830,-
KFP 3000V40M	3000	1000	1000	20000	240	5	175	1500x1250x80	3110,-
11 Stainless steel weighing bridge KFD V40									
KFD 600V40M	600	200	200	4000	120	5	130	1600x1200x45	2670,-
KFD 1500V40M	1500	500	500	10000	300	5	130	1600x1200x45	2670,-

14

15

Pallet truck scales

VHE-A		143
Robust entry-level model into mobile weighing		
VFB		144
Pallet truck scale with integrated rechargeable battery pack		
VHB		145
Robust pallet truck scale, with a memory for a container weight		
VFS		146
Pallet truck scale with large display, integrated printer and rechargeable battery pack		

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. Like this you uncover inaccurate quantities, save time and money and therefore ensure a very short amortisation period of the scales original cost.

KERN offers a carefully coordinated range from the affordable entry level model, to the easy-to-use models with counting function, printer or removable battery pack for a constant functionality.

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.

Your KERN product specialist will be happy to help:

Katharina Queitsch
Product specialist Pallet truck scales

Tel. +49 [0] 7433 9933-218
Fax +49 [0] 7433 9933-29218
katharina.queitsch@kern-sohn.com

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	**VFB 2T-3**	**1310,-**	144	2	●	●		○
1 kg	2 t	**VHB 2T1**	**1340,-**	145	2	●	●	○	
1 kg	2 t	**VFS 2T1**	**1690,-**	146	2	●	●		○
5 kg	2 t	**VHE 2T5A**	**830,-**	143	2	●	●	○	

● = Standard   ○ = Option

Pallet truck scale KERN VHE-A

NEW

Robust entry-level model into mobile weighing

Features

- **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 of low pallets
- **Pivot range 206°**
- **Castors:** Solid rubber on aluminium rims
- **Load rollers:** Polyurethane
- **Specially constructed for general checkweighing,** e.g.: plausibility check at goods receiving, determining shipping weights, avoiding overloads, safety checks

- **Operation:**
  1 Switch on and then pump up the load fork to the reference height
  2 Tare
  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
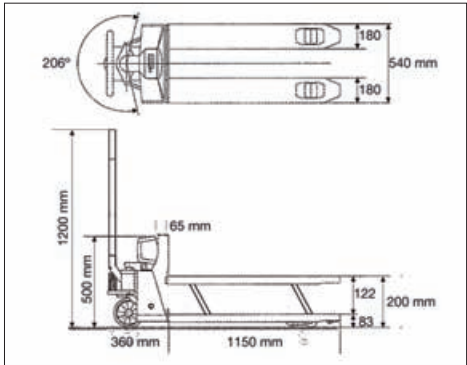
! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD

CAL EXT	IP 65	BATT	DMS	2 DAYS	3 YEARS WARRANTY

A

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	
						DAkkS KERN	€
VHE 2T5A	2000	5	65	-10 °C / 40 °C	830,-	963-131	220,-

15

Pallet truck scale KERN VFB

Pallet truck scale with integrated rechargeable battery pack

Features

- **PRE-TARE function** for manual deduction of a known container weight (e.g. pallet, mesh crate etc.), this value can be stored
- **1 Load cells:** Protection against dust and water splashes IP67, temporary use in wet areas is possible
- **Pivot range 180°**
- **Castors:** Solid rubber on aluminium rims
- **Load rollers:** Tandem tyres to overcome thresholds and obstacles more easily. Material: Polyurethane
- **Net/gross weight:** to control the consumed weighing range at the touch of a key
- **Totalising** of weights
- **Rechargeable battery pack internal**, standard, operating time up to 40 h without backlight, charging time approx. 12 h

Technical data

- Backlit LCD display, digit height 22 mm

Accessories

- **Protective working cover** over the display device, can be retrofitted, KERN VFB-A01, **€ 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							OPTION
CAL EXT	SUM A	IP 67	ACCU	230 V	DMS	2 DAYS	3 YEARS WARRANTY	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	
						DAkkS KERN	€
VFB 2T-3	2000	1	126	-10 °C / 40 °C	1310,-	963-131	220,-

For more information, please visit www.kern-sohn.com/en/VFB · Order hotline +49 [0] 7433 9933-0

15

Pallet truck scale KERN VHB

1

3

Robust pallet truck scale, with a memory for a container weight

Features

- **PRE-TARE function** for manual subtraction of a known container weight, which can be saved
- 1 **Display device:** Protection against dust and water splashes IP65
- 2 **Load cells:** 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 come over 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 (without use of printer)

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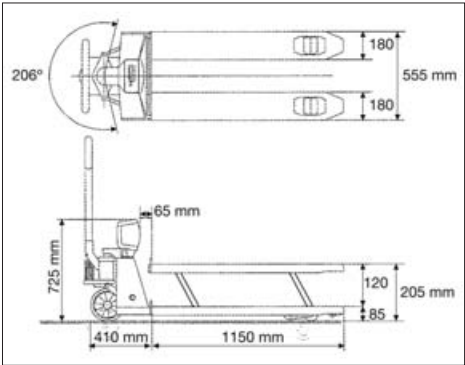
! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

15

STANDARD								OPTION
CAL EXT	UNIT	SUM A	IP 65	IP 67	BATT	DMS	2 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS
		1	2					

Model	Weighing range	Readout	Net weight	Permissible ambient temperature	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] kg	approx. kg	°C	€	**DAkkS** KERN	€
VHB 2T1	2000	1	120	-10 °C / 40 °C	**1340,-**	963-131	220,-

! ONLY WHILE STOCKS LAST

Pallet truck scale KERN VFS

Pallet truck scale with large display, integrated printer and rechargeable battery pack

Features

- **PRE-TARE function** for manual subtraction of a known container weight, e.g. pallet cages, pallets etc., which cannot be saved
- **1** **Display device:** Protection against dust and water splashes IP65
- **2** **Load cells:** Protection against dust and water splashes IP67, temporary use in wet areas is possible
- **Pivot range 180°**
- **Castors:** Solid rubber on aluminium rims
- **3** **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
- **4** **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, **€ 35,-**

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								OPTION
CAL EXT	SUM ^{A}	IP 65	IP 67	ACCU	230 V	DMS	2 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS
		1	2					only with VFS-M01

Model	Weighing range	Readout	Net weight	Permissible ambient temperature	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] kg	approx. kg	°C	€	DAkkS KERN	€
VFS 2T1	2000	1	126	-10 °C / 40 °C	**1690,-**	963-131	220,-

15

HDB-N · CH	148	
Convenient, economical and always handy		
HCB · HCN	149	
The handy scales for higher loads – now up to 1 t!		
HFB	150	
The professional alternative up to 600 kg with rear-facing second display		
HFA	151	
Compact crane scale with integrated display for use in harsh environmental conditions		
HFC	152	
Compact crane scale for use in harsh environmental conditions, with convenient hand-held terminal		
HFM	153	
Industrial crane scale up to 10 t		

HTS   154
Robust industrial crane scale up to 10 t, with EC type approval [M]

HFT   155
Robust industrial crane scale up to 15 t with radio display and RS-232 data interface for transferring weighing results

Your KERN product specialist will be happy to help:

Julia Hering
Product specialist
Hanging scales / Crane scales

Tel.   +49 [0] 7433 9933 - 141
Fax   +49 [0] 7433 9933 - 29141
hering@kern-sohn.com

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
5 g	5 kg	HDB 5K5N	55,-	148	1		●	●				●	
10 g	10 kg	HDB 10K10N	55,-	148	1		●	●				●	
10 g	20 kg	HCB 20K10	105,-	149	1		●	●				●	
20 g	15 kg	CH 15K20	65,-	148	1		●	●				●	
20 g	50 kg	HCB 50K20	115,-	149	1		●	●				●	
50 g	20 kg	HCB 20K50	85,-	149	1		●	●				●	
50 g	20 kg	HCN 20K50IP	125,-	149	1		●	●		●	●	●	
50 g	50 kg	CH 50K50	70,-	148	1		●	●				●	
50 g	99 kg	HCB 99K50	99,-	149	1		●	●				●	
50 g	150 kg	HFB 150K50	330,-	150	1		●						●
100 g	50 kg	CH 50K100	60,-	148	1		●					●	
100 g	50 kg	HCB 50K100	90,-	149	1		●					●	
100 g	50 kg	HCN 50K100IP	125,-	149	1		●	●		●	●	●	
100 g	200 kg	HCB 200K100	110,-	149	1		●					●	
100 g	300 kg	HFB 300K100	360,-	150	1		●						●
100 g	1 t	HFM 1T0.1	650,-	153	1		●						●
200 g	100 kg	HCB 100K200	110,-	149	1		●	●				●	
200 g	100 kg	HCN 100K200IP	125,-	149	1		●	●		●	●	●	
200 g	600 kg	HFB 600K200	360,-	150	1		●						●
200 g	600 kg	HFA 600K-1	590,-	151	1		●					○	●
500 g	200 kg	HCB 200K500	99,-	149	1		●	●				●	
500 g	200 kg	HCN 200K500IP	125,-	149	1		●	●		●	●	●	
500 g	1 t	HFA 1T-4	690,-	151	1		●					○	●
500 g	1 t	HFC 1T-4	990,-	152	1		●					○	●
500 g	1,5 t	HTS 1T-4AM	1070,-	154	2*	○	●						●
500 g	3 t	HFM 3T0.5	670,-	153	1		●						●
500 g	3 t	HFT 3T0.5	1120,-	155	2*		●		●	●			●
500 g	5 t	HFM 5T0.5	860,-	153	1		●						●
1000 g	500 kg	HCB 0.5T-3	290,-	149	1		●	●				●	
1000 g	3 t	HFA 3T-3	750,-	151	1		●					○	●
1000 g	3 t	HFC 3T-3	1050,-	152	1		●					○	●
1000 g	3 t	HTS 3T-3AM	1150,-	154	2*	○	●						●
1000 g	5 t	HFT 5T1	1320,-	155	2*		●		●	●			●
1000 g	10 t	HFM 10T1	1190,-	153	1		●						●
2000 g	1 t	HCB 1T-3	390,-	149	1		●	●				●	
2000 g	5 t	HFA 5T-3	790,-	151	1		●					○	●
2000 g	5 t	HFC 5T-3	1090,-	152	1		●					○	●
2000 g	6 t	HTS 6T-3AM	1250,-	154	2*	○	●						●
2000 g	10 t	HFT 10T2	1640,-	155	2*		●		●	●			●
5000 g	10 t	HFA 10T-3	990,-	151	1		●					○	●
5000 g	10 t	HFC 10T-3	1290,-	152	1		●					○	●
5000 g	10 t	HTS 10T-3AM	1350,-	154	2*	○	●						●
5000 g	15 t	HFT 15T5	2410,-	155	2*		●		●	●			●

For an explanation on the pictos, see the front flap

2* = Delivery by truck, please ask for prices

● = Standard   ○ = Option

Hanging scales KERN HDB-N · CH

KERN HDB-N

KERN CH

Convenient, economical and always handy

Features

- With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) 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.
- **Data 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)**
- **1 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

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 DAkkS KERN	€
HDB 5K5N	5	5	12	70x25x105	195	0,15	55,-	963-127	72,-
HDB 10K10N	10	10	12	70x25x105	195	0,15	55,-	963-128	88,-
CH 15K20	15	20	11	90x30x176.5	270	0,25	65,-	963-128	88,-
CH 50K50	50	50	11	90x30x176.5	270	0,25	70,-	963-128	88,-
CH 50K100	50	100	11	90x30x176.5	270	0,25	60,-	963-128	88,-

Hanging scales KERN HCB · HCN

KERN HCB

KERN HCN

The handy scales for higher loads - now up to 1 t

Features

- **1** With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) 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.
- **Data 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 12 mm
- Hole diameter of load support model with [Max] ≤ 200 kg: approx. 14 mm [Max] > 200 kg: approx. 16 mm

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 scale
- **Ready for use**: batteries 2 x 1.5 V AA standard, operating time up to 200 h

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, **€ 30,-**

STANDARD · OPTION

| CAL EXT | UNIT | MOVE | IP 65 only HCN | INOX only HCN | BATT | 1 DAY | 2 YEARS WARRANTY | 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	
							DAkkS 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	99,-	963-129H	88,-
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	290,- ⬇	963-130H	165,-
HCB 1T-3	1000	2000	80x48x150	-	0,52	390,- ⬇	963-130H	165,-
stainless steel								
HCN 50K100IP	50	100	95x55x175	315	0,8	125,-	963-128H	88,-
HCN 100K200IP	100	200	95x55x175	315	0,8	125,-	963-129H	105,-
HCN 200K500IP	200	500	95x55x175	315	0,8	125,-	963-129H	105,-

⬇ Price reduction

16

Crane scale KERN HFB
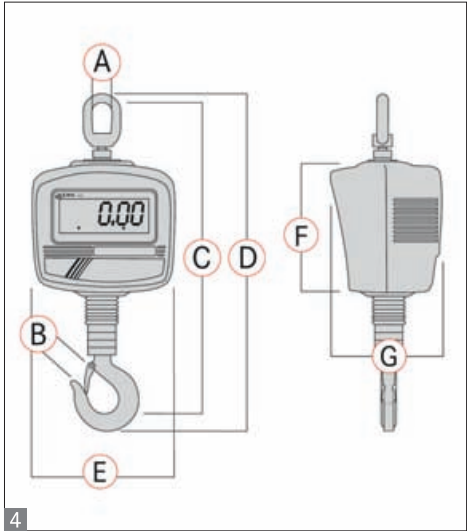
The professional alternative up to 600 kg with rear-facing second display

Features

- **1** With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) and EN 61010-1 (Electrical safety)
- **2 Second display** on the rear of the balance
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department etc.)
- **Data 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 approx. 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 163x126x158.5 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

16

STANDARD | CAL EXT | UNIT | ACCU | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY

OPTION | DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	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 DAkkS KERN	€
HFB 150K50	150	50	3,2	26	25	358	390	163	158,5	126	**330,-**	963-129H	105,-
HFB 300K100	300	100	3,2	26	25	358	390	163	158,5	126	**360,-**	963-129H	105,-
HFB 600K200	600	200	3,2	26	25	358	390	163	158,5	126	**360,-**	963-130H	165,-

Crane scale KERN HFA

NEW
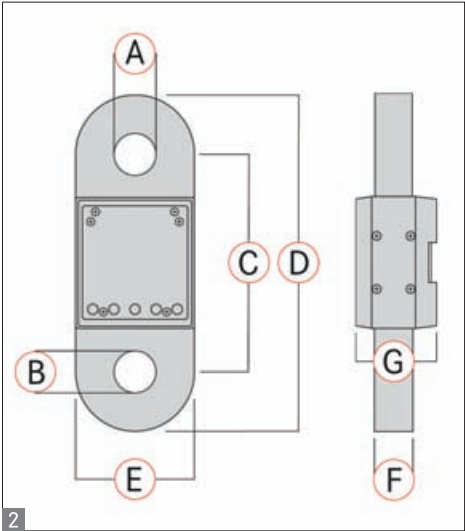
Compact crane scale with integrated display for use in harsh environmental conditions

Features

- 🔳 With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) 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 ideally suited for installation in a system plant etc.
- Ideally suited for determining weight quickly while loading and unloading
- **Peak load display** (peak hold)
- **Data 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
- Rechargeable battery pack internal, standard, operating time up to 30 h, charging time approx. 12 h (internal charging with 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, Ib, N
- Permissible ambient temperature 5 °C / 35 °C

STANDARD

| CAL EXT | UNIT | BATT | ACCU | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY |

OPTION

| DAkkS +3 DAYS |

Model	Weighing range	Readout	🔳 Dimensions						Net weight	Price	Option DAkkS Calibr. Certificate	
	[Max]	[d]	A = B	C	D	E	F	G	approx.	excl. of VAT ex works	DAkkS	
KERN	kg	g	mm	mm	mm	mm	mm	mm	kg	€	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	990,-	963-133H	700,-
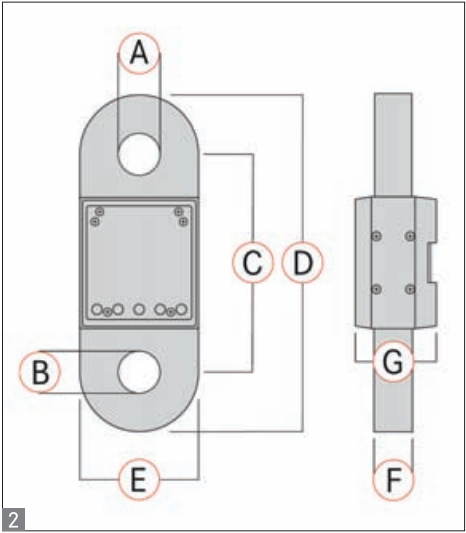
16

Crane scale KERN HFC

NEW

Compact crane scale for use in harsh environmental conditions, 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) 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 ideally suited for installation in a system plant etc.
- Ideally suited for determining weight quickly while loading and unloading
- **Peak load display** (peak hold)
- **Data 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
- **Display device with integrated radio module**, which the user can carry around with him, thanks to the convenient hand strap. In this way the weighing data can always be read off the display device even though the user might find himself in a remote distance from the crane scale (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 (internal charging with mains adapter). Operating time up to 30 h without backlight, charging time approx. 12 h. Dimensions housing WxDxH 88x64x256 mm

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
- Rechargeable battery pack internal, standard, operating time up to 30 h, charging time approx. 12 h (internal charging with mains adapter), charge condition 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

16

STANDARD | OPTION

| CAL EXT | UNIT | BATT | ACCU | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | DAkkS +3 DAYS |

only load support

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	② Dimensions						Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
				A = B mm	C mm	D mm	E mm	F mm	G mm		DAkkS KERN	€
HFC 1T-4	1000	500	2,5	27	165	255	90	30	55	990,-	963-130H	165,-
HFC 3T-3	3000	1000	4,4	27	165	255	90	30	61	1050,-	963-132H	500,-
HFC 5T-3	5000	2000	4,4	30	165	255	90	30	61	1090,-	963-132H	500,-
HFC 10T-3	10000	5000	5,5	40	185	275	90	40	71	1290,-	963-133H	700,-

Crane scale KERN HFM
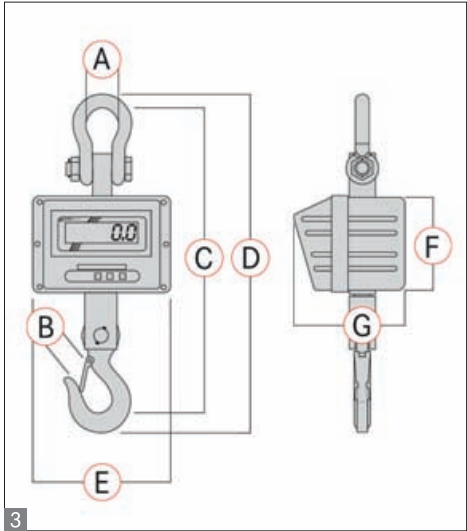
Industrial crane scale up to 10 t

Features

- **1** With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) 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 applications
- **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
- **Data 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 for easy reading of weight values, even from a distance or under poor lighting conditions
- Rechargeable battery pack internal, standard, operating time up to 50 hours with backlight, charging time approx. 14 h, can be retrofitted, KERN HFM-A01, **€ 50,-**
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C / 40 °C

STANDARD | OPTION

CAL EXT | ACCU | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | DAkkS +3 DAYS

Model KERN	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAkkS KERN	€
HFM 1T0.1	1000	100	15	80	40	540	610	270	200	175	**650,-**	963-130H	165,-
HFM 3T0.5	3000	500	16,5	75	50	540	610	270	200	175	**670,-**	963-132H	500,-
HFM 5T0.5	5000	500	25	75	50	650	730	300	230	190	**860,-**	963-132H	500,-
HFM 10T1	10000	1000	37	100	60	750	840	300	230	190	**1190,-**	963-133H	700,-

16

Crane scale KERN HTS
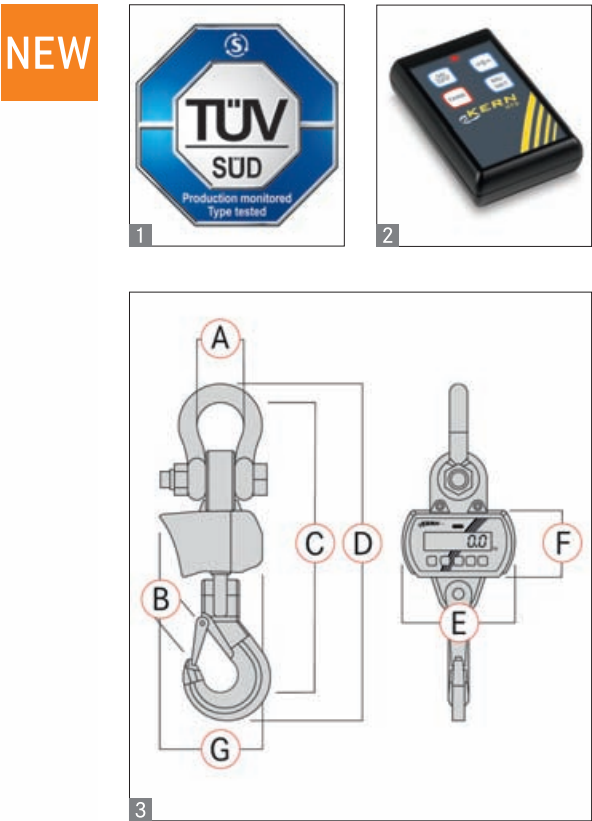
NEW

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) 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]
- **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

Additional functions:
- LED display with Gross/Tare/Net
- Charge status indicator visualised through LED
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key

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
- Precision: 0,1 % of [Max]
- Net weight approx. 20 kg
- Permissible ambient temperature -20 °C / 40 °C

16

STANDARD | CAL EXT | ACCU | 230 V | DMS | 2 DAYS | 3 YEARS WARRANTY

OPTION | DAkkS +3 DAYS

FACTORY | M +3 DAYS

Model	Weighing range	Readout	Minimum load	3 Dimensions							Price	Options			
				A	B	C	D	E	F	G	excl. of VAT	Verification		DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] = [e] g	[Min] kg	mm	mm	mm	mm	mm	mm	mm	ex works €	M KERN	€	DAkkS KERN	€
HTS 1T-4AM	1500	500	10	33,3	29	314,6	359,3	200	121	181	**1070,-**	950-130H	185,-	963-130H	165,-
HTS 3T-3AM	3000	1000	20	42,9	47	346,75	369,25	200	121	181	**1150,-**	950-132H	500,-	963-132H	500,-
HTS 6T-3AM	6000	2000	40	58	55	440	518,6	200	121	181	**1250,-**	950-132H	500,-	963-132H	500,-
HTS 10T-3AM	10000	5000	100	82,6	61	535,35	628,35	200	121	181	**1350,-**	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.

For more information, please visit www.kern-sohn.com/en/HTS · Order hotline +49 [0] 7433 9933-0

Crane scale KERN HFT

PREMIUM ★★★
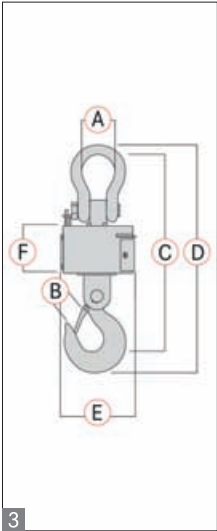
Robust industrial crane scale up to 15 t with radio display and RS-232 data interface for transferring weighing results

Features

- • **1** With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) 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
- • **Data 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 retrofitted, scale: operating time up to 80 h, charging time approx. 8 h display device: operating time up to 40 h, charging time 4 h, KERN HFM-A01, **€ 50,-**

16

STANDARD

| CAL EXT | RS 232 | RC | SUM^A | MOVE | ACCU | 230 V | 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						Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
				A mm	B mm	C mm	D mm	E mm	F mm		DAkkS KERN	€
HFT 3T0.5	3000	500	28	73	39	545	650	270	145	**1120,-**	963-132H	500,-
HFT 5T1	5000	1000	45	76	51	635	760	270	147	**1320,-**	963-132H	500,-
HFT 10T2	10000	2000	53	92	61	735	840	270	167	**1640,-**	963-133H	700,-
HFT 15T5	15000	5000	73	99	61	842	950	320	160	**2410,-**	963-133H*	700,-

* Calibration up to [Max] = 12 t

17

Accessories

Barcode scanner

Data interfaces / Accessories

Density set

Printers

Software

Miscellaneous

Tare pan

Transport case

Test weights accessories

Second display

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.

KERN YKN-01

Matrix needle printer

For printing the weights on normal paper, which is ideal for long-term archiving

Technical data

- Needle print
- Speed: 1 line/sec
- Max. 16 characters per line
- Paper stripes: 44 mm wide
- Operation via mains adapter 230V/50Hz (standard)

- Dimensions: WxDxH 158x106x40 mm
- Interface cable not included with delivery

Price printer without interface cable, KERN YKN-01**, € 200,-**

Accessories

Paper rolls (5 pieces), KERN YKN-A01**, € 35,-**

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.

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 YKB-01N**, € 355,-**

Accessories

Paper rolls (10 pieces), KERN YKB-A10**, € 55,-**

KERN YKS-01

Thermal statistics printer

For printing weights, 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 pieces), 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.

17

Accessories

BT

KERN YKC-01

Bluetooth thermal printer

For printing weights, 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 (standard)
- Dimensions: WxDxH 85x113x57 mm
- Interface cable not included with delivery

Price printer without interface cable, KERN YKC-01**, € 690,-**

Accessories

Paper rolls (10 pieces), 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.

Printer, ... → Balance ↓	YKB-01N, YKN-01, YKI-01, PC Product code	YKS-01 Product code	Cable Price excl. of VAT ex works €
440, 572, 573, ALJ-AM, ALS-A, ALT-B, CDS, CKE, DBS, DE-D, DLB, DLT, DS, EMB-V, FCB, FKB, FKB-A, FKT, FKTF, IKT, KB, PCB, PCD, PKS, PKT, PLJ-A, PLJ-J, PLS-A, PLS-F, PLE, PLT	572-926		
BFB, EWJ, GAB-N, GAB-P, IFB, KFB-TM, NFB, PFB	CFS-A01		
EG-N, EW-N, PEJ, PES (printer connection unidirectional)	474-926		46,-
ABJ, ABS (year of production 2000–2012), ABT, PBJ, PBS	770-926		
AEJ-CM, AEJ-NM, AES-C, AES-N, AET, ILJ-C, ILS-C, ILT, PET, PLJ-C, PLJ-G	MLB-A05		
HFT	KFF-A01		
AET, DLB, DLT, ILT, KFS-T, MLB-C, MLS-C, PET	MLB-A05	–	
ABJ-NM, ABS-N	ACS-A01		75,-
KFS-TM, BFS, IFS, CFS, CPB	CFS-A01		46,-

Note:

The interface cable is **free of charge** if you purchase balance and printer together.

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 through 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 supplies: 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.

17

For more information, please visit www.kern-sohn.com/en · Order hotline +49 [0] 7433 9933-0

Accessories

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 wirelessly to a WLAN device or a network (relevant software on the WLAN device needed, not included with the delivery). The adapter allows for 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 through 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 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 supplies: RS-232/WLAN adapter, mains adapter, network cable (1 m), driver CD.

Price without interface cable,
KERN YKI-03**, € 780,-**

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.
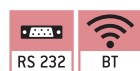
RS 232 BT

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 wirelessly 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, i.e. an additional interface cable would not be necessary. Power supply will be either through the balance (if compatible) or with the mains adapter which is supplied as standard 2.

Range up to 100 m in the open, depending on obstacles, such as, e.g., walls, and the sensitivity and type of antenna of the receiver. Intersections of send and receive lines using the DCE/DTE switch 3.

Scope of supplies: RS-232/Bluetooth adapter, mains adapter (EU/GB/USA/AUS/CH) 2, USB-A to Mini USB-B cable 4, gender changer 5, driver CD.

Price without interface cable,
KERN YKI-02**, € 260,-**

KERN SCD-4.0

Balance Connection Software

For the direct transmission of weighing data to Windows applications (operating systems Windows XP, Vista, 7, 8)

• Transfer via RS-232 to the PC, e.g. to MS Excel
• Transfer at the touch of a key or on a time-controlled basis
• Date and time can be displayed at any time
• 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
• GLP-compliant lab software

KERN SCD-4.0**, € 150,-**

17

Accessories

KERN CFS-A04

2nd RS-232 data interface

separate Y cable, e.g. for simultaneous connection of a printer, signal lamp etc. Suitable for BFB, CPB-N, CFS, GAB-N, GAB-P, IFB, KFB-TM, NFB, UFA, UFB, SFB, BAN, UFN, NFN

Sim. to illustration, KERN CFS-A04, **€ 35,-**

KERN AFH 12

RS-232 / USB adapter

RS-232 to USB converter, fits on all balances and measuring instruments with RS-232 port.

Scope of supplies:
Converter cable, CD with driver,

KERN AFH 12, **€ 85,-**

KERN AFH 14

2x RS-232 / USB adapter

RS-232 to USB converter, fits on all balances and measuring instruments with RS-232 port.

Scope of supplies:
Converter cable, CD with driver,
KERN AFH 14**, € 115,-**

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 IXS, SXS, KXS-TM, KXG-TM.

KERN KXS-A03**, € 65,-**

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**, € 200,-**

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 GAB-N, GAB-P, CPB-N, IFB, NFB, KFB-TM, BFB, UFA.

KERN CFS-A03**, € 250,-**

Accessories

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, **€ 25,-**

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 supplies: 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, **€ 141,-**

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, **€ 50,-**

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, **€ 65,-**

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.

KERN ABS-A08, **€ 30,-**

17

Accessories

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, **€ 105,-**

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, ◻ conveniently next to the
balance or you can manually direct it from all
sides onto a particular weighing item ◻.

- 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,-**

KERN YPS-03

Weighing table

Accurate measuring results require stable
working conditions! The KERN YPS-03 weigh-
ing table has been constructed to absorb
vibrations and oscillations, which would other-
wise 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,-**

STANDARD
2 DAYS

17

Accessories Touchscreen Balances series AET · ILT · KEN · KET · PET

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 serie AET, PET: KERN PET-A01, **€ 300,-**
for serie 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 supplies: 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.

Scope of supplies: Printer, USB interface cable, labeling software.
Suitable for series KERN AET, PET, BBB, BBN, ILT, KET-TM, KEN-TM.

KERN PET-A13**, € 980,-**

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 supplies: Printer, USB interface cable, labeling software.
Suitable for series KERN AET, PET, BBB, BBN, ILT, KET-TM, KEN-TM.

KERN PET-A14**, € 1000,-**

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 ILT-GM, BBB, BBN, KET-TM.

KERN KET-A06**, € 1450,-**

17

Accessories Touchscreen Balances series AET · ILT · KEN · KET · PET

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 200x55x100 mm.

Suitable for series KERN AET, PET:
KERN PET-A03, **€ 210,-**
Suitable for series KERN ILT:
KERN KET-A03, **€ 210,-**

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 152x84x63 mm.

Suitable for series KERN AET, PET, BBB, BBN, ILT, KET-TM, KEN-TM.

KERN PET-A06, **€ 45,-**

KERN KET-A01

Analogue/Digital converter

to connect up to two platforms to the display device, suitable for series KERN ILT-BM, ILT-GM, KET-TM, KEN-TM, BBB, BBN,

KERN KET-A01, **€ 350,-**

KERN KET-A02

Wall mount

for mounting the display device, (see illustration), dimensions WxDxH 135x148x110 mm, suitable for series KERN ILT-BM, ILT-GM, KET-TM,

KERN KET-A02, **€ 190,-**
(Display device is not included with the delivery)

KERN KET-A05 / KET-A08

Transponder card reader

RFID technology, dimensions WxDxH 133x30x98 mm, suitable for series KERN ILT-BM, ILT-GM, BBB, BBN, KET-TM, KEN-TM. 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,-**

17

164   Accessories Touchscreen Balances   For more information, please visit www.kern-sohn.com/en · Order hotline +49 [0] 7433 9933-0

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 185.

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.

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

Your KERN product specialist will be happy to help:

Marietta Diener
Product specialist Test weights

Tel.   +49 [0] 7433 9933 - 167
Fax   +49 [0] 7433 9933 - 29167
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 167.

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 172.

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
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

For more information, please visit www.kern-sohn.com/en · Order hotline: +49 [0] 7433 9933-0

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 – 50 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, i.e. 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 191 – 192*

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

Individual weights per set ➔	1 mg	2 mg	2 mg	5 mg	10 mg	20 mg	20 mg	50 mg	100 mg	200 mg	200 mg	500 mg	1 g	2 g	2 g	5 g	10 g	20 g	20 g	50 g	100 g	200 g	200 g	500 g	1 kg	2 kg	2 kg	5 kg	10 kg
Weight set ↓																													
1 mg – 500 mg	Total weight										1,11 g																		
1 mg – 50 g																				111,11 g									
1 mg – 100 g																					211,11 g								
1 mg – 200 g																							611,11 g						
1 mg – 500 g																								1.111,11 g					
1 mg – 1 kg																									2.111,11 g				
1 mg – 2 kg																											6.111,11 g		
1 mg – 5 kg																												11.111,11 g	
1 mg – 10 kg																													21.111,11 g

18

Test weights class E1

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	**50,-**			**116,-**
308-32	2 mg	0,003	**52,-**	338-090-200	**14,-**		962-252	**50,-**			**116,-**
308-33	5 mg	0,003	**52,-**	338-090-200	**14,-**		962-253	**50,-**			**116,-**
308-34	10 mg	0,003	**52,-**	338-090-200	**14,-**		962-254	**50,-**			**116,-**
308-35	20 mg	0,003	**52,-**	338-090-200	**14,-**		962-255	**50,-**			**116,-**
308-36	50 mg	0,004	**52,-**	338-090-200	**14,-**		962-256	**50,-**			**116,-**
308-37	100 mg	0,005	**52,-**	338-090-200	**14,-**		962-257	**50,-**			**116,-**
308-38	200 mg	0,006	**52,-**	338-090-200	**14,-**		962-258	**50,-**			**116,-**
308-39	500 mg	0,008	**52,-**	338-090-200	**14,-**		962-259	**50,-**			**116,-**

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	**191,-**		**302,-**	962-231 R	**50,-**
307-02	2 g	0,012	**89,-**	317-020-100	**28,-**		963-232	**191,-**		**308,-**	962-232 R	**50,-**
307-03	5 g	0,016	**96,-**	317-030-100	**28,-**		963-233	**191,-**		**315,-**	962-233 R	**50,-**
307-04	10 g	0,020	**104,-**	317-040-100	**28,-**		963-234	**191,-**		**323,-**	962-234 R	**50,-**
307-05	20 g	0,025	**113,-**	317-050-100	**28,-**		963-235	**191,-**		**332,-**	962-235 R	**50,-**
307-06	50 g	0,03	**135,-**	317-060-100	**28,-**		963-236	**191,-**		**354,-**	962-236 R	**50,-**
307-07	100 g	0,05	**162,-**	317-070-100	**28,-**		963-237	**191,-**		**381,-**	962-237 R	**50,-**
307-08	200 g	0,10	**194,-**	317-080-100	**28,-**		963-238	**191,-**		**413,-**	962-238 R	**50,-**
307-09	500 g	0,25	**280,-**	317-090-100	**31,-**		963-239	**191,-**		**502,-**	962-239 R	**50,-**
307-11	1 kg	0,5	**425,-**	317-110-100	**35,-**		963-241	**191,-**		**651,-**	962-241 R	**50,-**
307-12	2 kg	1,0	**630,-**	317-120-100	**44,-**		963-242	**465,-**		**1139,-**	962-242 R	**62,-**
307-13	5 kg	2,5	**1060,-**	317-130-100	**66,-**		963-243	**465,-**		**1591,-**	962-243 R	**62,-**
307-14	10 kg	5,0	**1530,-**	317-140-100	**89,-**		963-244	**465,-**		**2084,-**	962-244 R	**62,-**
307-15	20 kg	10,0	**2160,-**	317-150-100	**340,-**		963-245	**1100,-**		**3600,-**	962-245 R	**560,-**
307-16	50 kg	25,0	**4140,-**	317-160-100	**415,-**		963-246	**1300,-**		**5855,-**	962-246 R	**630,-**

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

Weight set		+	DAkkS certificate Initial calibration		=	Package price	DAkkS certificate Recalibration	
KERN	**€**		**KERN**	**€**		**KERN €**	**KERN**	**€**
308-42	1 mg – 500 mg	**655,-**	962-250	**335,-**		**990,-**	962-250 R	**335,-**
303-02	1 mg – 50 g	**1540,-**	963-201	**1060,-**		**2600,-**	962-201 R	**540,-**
303-03	1 mg –100 g	**1700,-**	963-202	**1160,-**		**2860,-**	962-202 R	**560,-**
303-04	1 mg – 200 g	**2090,-**	963-203	**1340,-**		**3430,-**	962-203 R	**610,-**
303-05	1 mg – 500 g	**2420,-**	963-204	**1430,-**		**3850,-**	962-204 R	**640,-**
303-06	1 mg – 1 kg	**2840,-**	963-205	**1520,-**		**4360,-**	962-205 R	**670,-**
303-07	1 mg – 2 kg	**4150,-**	963-206	**1980,-**		**6130,-**	962-206 R	**720,-**
303-08	1 mg – 5 kg	**5300,-**	963-207	**2430,-**		**7730,-**	962-207 R	**740,-**
303-09	1 mg – 10 kg	**6890,-**	963-208	**2870,-**		**9760,-**	962-208 R	**770,-**
304-02	1 g – 50 g	**910,-**	963-215	**760,-**		**1670,-**	962-215 R	**235,-**
304-03	1 g – 100 g	**1070,-**	963-216	**850,-**		**1920,-**	962-216 R	**260,-**
304-04	1 g – 200 g	**1460,-**	963-217	**1030,-**		**2490,-**	962-217 R	**310,-**
304-05	1 g – 500 g	**1790,-**	963-218	**1120,-**		**2910,-**	962-218 R	**335,-**
304-06	1 g – 1 kg	**2210,-**	963-219	**1220,-**		**3430,-**	962-219 R	**360,-**
304-07	1 g – 2 kg	**3520,-**	963-220	**1760,-**		**5280,-**	962-220 R	**410,-**
304-08	1 g – 5 kg	**4670,-**	963-221	**2210,-**		**6880,-**	962-221 R	**435,-**
304-09	1 g – 10 kg	**6260,-**	963-222	**2660,-**		**8920,-**	962-222 R	**465,-**

Test weights class E2

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	24,-			50,-
318-02	2 mg	0,006	24,-	347-009-400	2,-		962-352	24,-			50,-
318-03	5 mg	0,006	24,-	347-009-400	2,-		962-353	24,-			50,-
318-04	10 mg	0,008	24,-	347-009-400	2,-		962-354	24,-			50,-
318-05	20 mg	0,010	24,-	347-009-400	2,-		962-355	24,-			50,-
318-06	50 mg	0,012	24,-	347-009-400	2,-		962-356	24,-			50,-
318-07	100 mg	0,016	24,-	347-009-400	2,-		962-357	24,-			50,-
318-08	200 mg	0,020	24,-	347-009-400	2,-		962-358	24,-			50,-
318-09	500 mg	0,025	24,-	347-009-400	2,-		962-359	24,-			50,-

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	24,-			63,-
316-02	2 g	0,04	35,-	317-020-400	6,-		962-332	24,-			65,-
316-03	5 g	0,05	37,-	317-030-400	6,-		962-333	24,-			67,-
316-04	10 g	0,06	39,-	317-040-400	6,-		962-334	24,-			69,-
316-05	20 g	0,08	45,-	317-050-400	6,-		962-335	24,-			75,-
316-06	50 g	0,10	48,-	317-060-400	6,-		962-336	24,-			78,-
316-07	100 g	0,16	52,-	317-070-400	6,-		962-337	31,-			89,-
316-08	200 g	0,3	66,-	317-080-400	6,-		962-338	31,-			103,-
316-09	500 g	0,8	111,-	317-090-400	9,-		962-339	31,-			151,-
316-11	1 kg	1,6	161,-	317-110-400	9,-		962-341	31,-			201,-
316-12	2 kg	3,0	260,-	317-120-400	9,-		962-342	39,-			308,-
316-13	5 kg	8,0	375,-	317-130-400	15,-		962-343	39,-			429,-
316-14	10 kg	16,0	530,-	317-140-400	20,-		962-344	39,-			589,-

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)

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	24,-			77,-
317-02	2 g	0,04	50,-	317-020-400	6,-		962-332	24,-			80,-
317-03	5 g	0,05	54,-	317-030-400	6,-		962-333	24,-			84,-
317-04	10 g	0,06	56,-	317-040-400	6,-		962-334	24,-			86,-
317-05	20 g	0,08	65,-	317-050-400	6,-		962-335	24,-			95,-
317-06	50 g	0,10	76,-	317-060-400	6,-		962-336	24,-			106,-
317-07	100 g	0,16	82,-	317-070-400	6,-		962-337	31,-			119,-
317-08	200 g	0,3	104,-	317-080-400	6,-		962-338	31,-			141,-
317-09	500 g	0,8	175,-	317-090-400	9,-		962-339	31,-			215,-
317-11	1 kg	1,6	260,-	317-110-400	9,-		962-341	31,-			300,-
317-12	2 kg	3,0	415,-	317-120-400	9,-		962-342	39,-			463,-
317-13	5 kg	8,0	590,-	317-130-400	15,-		962-343	39,-			644,-
317-14	10 kg	16,0	850,-	317-140-400	20,-		962-344	39,-			909,-
317-15	20 kg	30,0	1340,-	317-150-100	340,-		962-345	50,-			1730,-
317-16	50 kg	80,0	2780,-	317-160-100	415,-		962-346	62,-			3257,-

For individual weights, wooden boxes are also available as an alternative to the plastic containers.
For more details on this, please see page 183.

For weights
≤ 500 g

For weights
≥ 1 kg

18

Test weights class E2

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	120,-			490,-
312-034	1 g – 100 g	410,-		962-316	142,-			552,-
312-044	1 g – 200 g	500,-		962-317	186,-			686,-
312-054	1 g – 500 g	610,-		962-318	208,-			818,-
312-064	1 g – 1 kg	810,-		962-319	230,-			1040,-
312-074	1 g – 2 kg	1310,-		962-320	290,-			1600,-
312-084	1 g – 5 kg	1650,-		962-321	320,-			1970,-

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 removable plastic box

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
318-22	1 mg – 500 mg	320,-		962-350	180,-			500,-
313-024	1 mg – 50 g	820,-		962-301	300,-			1120,-
313-034	1 mg – 100 g	910,-		962-302	322,-			1232,-
313-044	1 mg – 200 g	1110,-		962-303	366,-			1476,-
313-054	1 mg – 500 g	1270,-		962-304	388,-			1658,-
313-064	1 mg – 1 kg	1630,-		962-305	410,-			2040,-
313-074	1 mg – 2 kg	2460,-		962-306	470,-			2930,-
313-084	1 mg – 5 kg	3050,-		962-307	500,-			3550,-
314-024	1 g – 50 g	540,-		962-315	120,-			660,-
314-034	1 g – 100 g	620,-		962-316	142,-			762,-
314-044	1 g – 200 g	830,-		962-317	186,-			1016,-
314-054	1 g – 500 g	1010,-		962-318	208,-			1218,-
314-064	1 g – 1 kg	1340,-		962-319	230,-			1570,-
314-074	1 g – 2 kg	2180,-		962-320	290,-			2470,-
314-084	1 g – 5 kg	2760,-		962-321	320,-			3080,-

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 removable plastic box

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
318-22	1 mg – 500 mg	320,-		962-350	180,-			500,-
313-02	1 mg – 50 g	880,-		962-301	300,-			1180,-
313-03	1 mg – 100 g	960,-		962-302	322,-			1222,-
313-04	1 mg – 200 g	1170,-		962-303	366,-			1536,-
313-05	1 mg – 500 g	1400,-		962-304	388,-			1788,-
313-06	1 mg – 1 kg	1670,-		962-305	410,-			2080,-
313-07	1 mg – 2 kg	2550,-		962-306	470,-			3120,-
313-08	1 mg – 5 kg	3250,-		962-307	500,-			3750,-
313-09	1 mg – 10 kg	4180,-		962-308	530,-			4710,-
314-02	1 g – 50 g	590,-		962-315	120,-			710,-
314-03	1 g – 100 g	670,-		962-316	142,-			812,-
314-04	1 g – 200 g	880,-		962-317	186,-			1066,-
314-05	1 g – 500 g	1120,-		962-318	208,-			1328,-
314-06	1 g – 1 kg	1380,-		962-319	230,-			1610,-
314-07	1 g – 2 kg	2260,-		962-320	290,-			2550,-
314-08	1 g – 5 kg	2960,-		962-321	320,-			3380,-
314-09	1 g – 10 kg	3890,-		962-322	350,-			4240,-

18

For more information, please visit www.kern-sohn.com/en · Order hotline: +49 [0] 7433 9933-0

Test weights class F1

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	17,-			30,-
328-02	2 mg	0,020	11,-	347-009-400	2,-		962-452	17,-			30,-
328-03	5 mg	0,020	11,-	347-009-400	2,-		962-453	17,-			30,-
328-04	10 mg	0,025	11,-	347-009-400	2,-		962-454	17,-			30,-
328-05	20 mg	0,03	11,-	347-009-400	2,-		962-455	17,-			30,-
328-06	50 mg	0,04	11,-	347-009-400	2,-		962-456	17,-			30,-
328-07	100 mg	0,05	11,-	347-009-400	2,-		962-457	17,-			30,-
328-08	200 mg	0,06	11,-	347-009-400	2,-		962-458	17,-			30,-
328-09	500 mg	0,08	11,-	347-009-400	2,-		962-459	17,-			30,-

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	17,-			37,-
329-02	2 g	0,12	19,-	347-030-400	2,-		962-432N	17,-			38,-
329-03	5 g	0,16	20,-	347-030-400	2,-		962-433N	17,-			39,-
329-04	10 g	0,20	23,-	347-050-400	2,-		962-434N	17,-			42,-
329-05	20 g	0,25	25,-	347-050-400	2,-		962-435N	17,-			44,-
329-06	50 g	0,3	27,-	347-070-400	2,-		962-436N	17,-			46,-
329-07	100 g	0,5	31,-	347-070-400	2,-		962-437N	19,-			52,-
329-08	200 g	1,0	41,-	347-080-400	2,-		962-438N	19,-			62,-
329-09	500 g	2,5	58,-	347-090-400	3,-		962-439N	19,-			80,-
329-11	1 kg	5,0	83,-	347-110-400	3,-		962-441N	19,-			105,-
329-12	2 kg	10	127,-	347-120-400	3,-		962-442N	24,-			154,-
329-13	5 kg	25	218,-	347-130-400	9,-		962-443N	24,-			251,-
329-14	10 kg	50	412,-	347-140-400	9,-		962-444N	24,-			445,-

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	17,-			41,-
326-02	2 g	0,12	23,-	347-030-400	2,-		962-432	17,-			42,-
326-03	5 g	0,16	25,-	347-030-400	2,-		962-433	17,-			44,-
326-04	10 g	0,20	28,-	347-050-400	2,-		962-434	17,-			47,-
326-05	20 g	0,25	29,-	347-050-400	2,-		962-435	17,-			48,-
326-06	50 g	0,3	32,-	347-070-400	2,-		962-436	17,-			51,-
326-07	100 g	0,5	36,-	347-070-400	2,-		962-437	19,-			57,-
326-08	200 g	1,0	49,-	347-080-400	2,-		962-438	19,-			70,-
326-09	500 g	2,5	68,-	347-090-400	3,-		962-439	19,-			90,-
326-11	1 kg	5,0	101,-	347-110-400	3,-		962-441	19,-			123,-
326-12	2 kg	10	150,-	347-120-400	3,-		962-442	24,-			177,-
326-13	5 kg	25	257,-	347-130-400	9,-		962-443	24,-			292,-
326-14	10 kg	50	485,-	347-140-400	9,-		962-444	24,-			518,-

18

Test weights class F1

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	17,-		42,-
327-62	2 g	0,12	24,-		347-030-400	2,-		962-432	17,-		43,-
327-63	5 g	0,16	26,-		347-030-400	2,-		962-433	17,-		45,-
327-64	10 g	0,20	29,-		347-050-400	2,-		962-434	17,-		48,-
327-65	20 g	0,25	31,-		347-050-400	2,-		962-435	17,-		50,-
327-66	50 g	0,3	34,-		347-070-400	2,-		962-436	17,-		53,-
327-67	100 g	0,5	38,-		347-070-400	2,-		962-437	19,-		59,-
327-68	200 g	1,0	52,-		347-080-400	2,-		962-438	19,-		73,-
327-69	500 g	2,5	72,-		347-090-400	3,-		962-439	19,-		94,-
327-71	1 kg	5,0	106,-		347-110-400	3,-		962-441	19,-		128,-
327-72	2 kg	10	158,-		347-120-400	3,-		962-442	24,-		185,-
327-73	5 kg	25	270,-		347-130-400	9,-		962-443	24,-		303,-
327-74	10 kg	50	510,-		347-140-400	9,-		962-444	24,-		543,-
327-75	20 kg	100	960,-		317-150-100	340,-		962-445	27,-		1327,-
327-76	50 kg	250	1800,-		317-160-100	415,-		962-446	38,-		2253,-

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	17,-		49,-
327-02	2 g	0,12	31,-		347-030-400	2,-		962-432	17,-		50,-
327-03	5 g	0,16	33,-		347-030-400	2,-		962-433	17,-		52,-
327-04	10 g	0,20	37,-		347-050-400	2,-		962-434	17,-		56,-
327-05	20 g	0,25	41,-		347-050-400	2,-		962-435	17,-		60,-
327-06	50 g	0,3	45,-		347-070-400	2,-		962-436	17,-		64,-
327-07	100 g	0,5	55,-		347-070-400	2,-		962-437	19,-		76,-
327-08	200 g	1,0	72,-		347-080-400	2,-		962-438	19,-		93,-
327-09	500 g	2,5	118,-		347-090-400	3,-		962-439	19,-		140,-
327-11	1 kg	5,0	165,-		347-110-400	3,-		962-441	19,-		187,-
327-12	2 kg	10	250,-		347-120-400	3,-		962-442	24,-		277,-
327-13	5 kg	25	375,-		347-130-400	9,-		962-443	24,-		408,-
327-14	10 kg	50	680,-		347-140-400	9,-		962-444	24,-		713,-
327-15	20 kg	100	1050,-		317-150-100	340,-		962-445	27,-		1417,-
327-16	50 kg	250	2270,-		317-160-100	415,-		962-446	38,-		2723,-

Alternative to plastic container:
Wooden boxes for individual weights. For more details on this, please see page 183

18

Test weights class F1

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	64,-			249,-
321-034	1 g – 100 g	215,-		962-416	74,-			289,-
321-044	1 g – 200 g	280,-		962-417	94,-			374,-
321-054	1 g – 500 g	320,-		962-418	104,-			424,-
321-064	1 g – 1 kg	460,-		962-419	114,-			574,-
321-074	1 g – 2 kg	640,-		962-420	144,-			784,-
321-084	1 g – 5 kg	820,-		962-421	159,-			979,-

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	64,-			299,-
322-034	1 g – 100 g	270,-		962-416	74,-			344,-
322-044	1 g – 200 g	350,-		962-417	94,-			444,-
322-054	1 g – 500 g	410,-		962-418	104,-			514,-
322-064	1 g – 1 kg	580,-		962-419	114,-			694,-
322-074	1 g – 2 kg	810,-		962-420	144,-			954,-
322-084	1 g – 5 kg	1030,-		962-421	159,-			1189,-

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 removable plastic box

Weight set			+	DAkkS certificate		=	Package price	
KERN		**€**		**KERN**	**€**		**KERN**	**€**
328-22	1 mg – 500 mg	175,-		962-450	96,-			271,-
Nickel-plated and polished brass								
323-624	1 mg – 50 g	400,-		962-401	160,-			560,-
323-634	1 mg – 100 g	435,-		962-402	170,-			605,-
323-644	1 mg – 200 g	530,-		962-403	190,-			720,-
323-654	1 mg – 500 g	590,-		962-404	200,-			790,-
323-664	1 mg – 1 kg	750,-		962-405	210,-			960,-
323-674	1 mg – 2 kg	1030,-		962-406	240,-			1270,-
323-684	1 mg – 5 kg	1270,-		962-407	255,-			1525,-
324-624	1 g – 50 g	260,-		962-415	64,-			324,-
324-634	1 g – 100 g	300,-		962-416	74,-			374,-
324-644	1 g – 200 g	380,-		962-417	94,-			474,-
324-654	1 g – 500 g	450,-		962-418	104,-			554,-
324-664	1 g – 1 kg	630,-		962-419	114,-			744,-
324-674	1 g – 2 kg	900,-		962-420	144,-			1044,-
324-684	1 g – 5 kg	1140,-		962-421	159,-			1299,-
Polished stainless steel								
323-024	1 mg – 50 g	500,-		962-401	160,-			660,-
323-034	1 mg – 100 g	560,-		962-402	170,-			730,-
323-044	1 mg – 200 g	700,-		962-403	190,-			890,-
323-054	1 mg – 500 g	820,-		962-404	200,-			1020,-
323-064	1 mg – 1 kg	1070,-		962-405	210,-			1280,-
323-074	1 mg – 2 kg	1570,-		962-406	240,-			1810,-
323-084	1 mg – 5 kg	1920,-		962-407	255,-			2175,-
324-024	1 g – 50 g	340,-		962-415	64,-			404,-
324-034	1 g – 100 g	400,-		962-416	74,-			474,-
324-044	1 g – 200 g	540,-		962-417	94,-			634,-
324-054	1 g – 500 g	660,-		962-418	104,-			764,-
❗ 324-064	1 g – 1 kg	890,-		962-419	114,-			1004,-
324-074	1 g – 2 kg	1400,-		962-420	144,-			1544,-
324-084	1 g – 5 kg	1750,-		962-421	159,-			1909,-

18

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 removable plastic box

Weight set				DAkkS certificate			Package price	
KERN		€		KERN	€		KERN	€
328-22	1 mg – 500 mg	175,-		962-450	96,-			271,-
Polished and nickel-plated brass								
323-62	1 mg – 50 g	455,-		962-401	160,-			615,-
323-63	1 mg – 100 g	485,-		962-402	170,-			655,-
323-64	1 mg – 200 g	580,-		962-403	190,-			770,-
323-65	1 mg – 500 g	700,-		962-404	200,-			900,-
323-66	1 mg – 1 kg	790,-		962-405	210,-			1000,-
323-67	1 mg – 2 kg	1120,-		962-406	240,-			1360,-
323-68	1 mg – 5 kg	1470,-		962-407	255,-			1725,-
323-69	1 mg – 10 kg	1990,-		962-408	270,-			2260,-
324-62	1 g – 50 g	310,-		962-415	64,-			374,-
324-63	1 g – 100 g	350,-		962-416	74,-			424,-
324-64	1 g – 200 g	435,-		962-417	94,-			529,-
324-65	1 g – 500 g	560,-		962-418	104,-			664,-
324-66	1 g – 1 kg	660,-		962-419	114,-			774,-
324-67	1 g – 2 kg	980,-		962-420	144,-			1124,-
324-68	1 g – 5 kg	1330,-		962-421	159,-			1489,-
324-69	1 g – 10 kg	1850,-		962-422	174,-			2024,-
Polished stainless steel								
323-02	1 mg – 50 g	560,-		962-401	160,-			720,-
323-03	1 mg – 100 g	610,-		962-402	170,-			780,-
323-04	1 mg – 200 g	750,-		962-403	190,-			940,-
323-05	1 mg – 500 g	930,-		962-404	200,-			1130,-
323-06	1 mg – 1 kg	1100,-		962-405	210,-			1310,-
323-07	1 mg – 2 kg	1650,-		962-406	240,-			1890,-
323-08	1 mg – 5 kg	2110,-		962-407	255,-			2365,-
323-09	1 mg – 10 kg	2880,-		962-408	270,-			3150,-
324-02	1 g – 50 g	390,-		962-415	64,-			454,-
324-03	1 g – 100 g	450,-		962-416	74,-			524,-
324-04	1 g – 200 g	600,-		962-417	94,-			694,-
324-05	1 g – 500 g	760,-		962-418	104,-			864,-
324-06	1 g – 1 kg	940,-		962-419	114,-			1054,-
324-07	1 g – 2 kg	1480,-		962-420	144,-			1624,-
324-08	1 g – 5 kg	1950,-		962-421	159,-			2109,-
324-09	1 g – 10 kg	2710,-		962-422	174,-			2884,-

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 184.

Test weights class F2

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
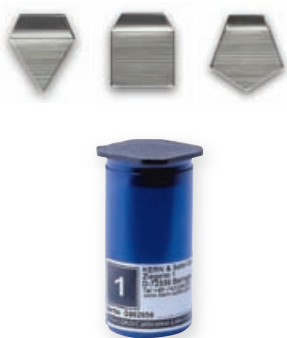
Milligram weight			+	Container		+	DAkkS certificate		=	Package price	
KERN	Tol ± mg	€		KERN	€		KERN	€		KERN	€
338-01	1 mg	0,06	10,-	347-009-400	2,-		962-451	17,-			29,-
338-02	2 mg	0,06	10,-	347-009-400	2,-		962-452	17,-			29,-
338-03	5 mg	0,06	10,-	347-009-400	2,-		962-453	17,-			29,-
338-04	10 mg	0,08	10,-	347-009-400	2,-		962-454	17,-			29,-
338-05	20 mg	0,10	10,-	347-009-400	2,-		962-455	17,-			29,-
338-06	50 mg	0,12	10,-	347-009-400	2,-		962-456	17,-			29,-
338-07	100 mg	0,16	10,-	347-009-400	2,-		962-457	17,-			29,-
338-08	200 mg	0,20	10,-	347-009-400	2,-		962-458	17,-			29,-
338-09	500 mg	0,25	10,-	347-009-400	2,-		962-459	17,-			29,-

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	17,-			38,-
337-02	2 g	0,4	20,-	347-030-400	2,-		962-432	17,-			39,-
337-03	5 g	0,5	22,-	347-030-400	2,-		962-433	17,-			41,-
337-04	10 g	0,6	24,-	347-050-400	2,-		962-434	17,-			43,-
337-05	20 g	0,8	26,-	347-050-400	2,-		962-435	17,-			45,-
337-06	50 g	1,0	28,-	347-070-400	2,-		962-436	17,-			47,-
337-07	100 g	1,6	32,-	347-070-400	2,-		962-437	19,-			53,-
337-08	200 g	3,0	42,-	347-080-400	2,-		962-438	19,-			63,-
337-09	500 g	8,0	60,-	347-090-400	3,-		962-439	19,-			82,-
337-11	1 kg	16	84,-	347-110-400	3,-		962-441	19,-			106,-
337-12	2 kg	30	129,-	347-120-400	3,-		962-442	24,-			156,-
337-13	5 kg	80	220,-	347-130-400	9,-		962-443	24,-			253,-
337-14	10 kg	160	415,-	347-140-400	9,-		962-444	24,-			448,-
337-15	20 kg	300	710,-	337-150-200	220,-		962-445	27,-			957,-
337-16	50 kg	800	1290,-	337-160-200	345,-		962-446	38,-			1673,-

Alternative to plastic container:
Wooden boxes for individual weights. For more details on this, please see page 183

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	24,-			764,-
337-151	20 kg	300	137x217 mm	670,-	337-151-200	235,-		962-445	27,-			932,-
337-161	50 kg	800	198x250 mm	1790,-	337-161-200	345,-		962-446	38,-			2173,-

18

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 removable plastic box

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
338-22	1 mg – 500 mg	143,-		962-450	96,-			239,-
333-024	1 mg – 50 g	365,-		962-401	160,-			525,-
333-034	1 mg – 100 g	405,-		962-402	170,-			575,-
333-044	1 mg – 200 g	495,-		962-403	190,-			685,-
333-054	1 mg – 500 g	570,-		962-404	200,-			770,-
333-064	1 mg – 1 kg	690,-		962-405	210,-			900,-
333-074	1 mg – 2 kg	970,-		962-406	240,-			1210,-
333-084	1 mg – 5 kg	1250,-		962-407	255,-			1505,-
334-024	1 g – 50 g	225,-		962-415	64,-			289,-
334-034	1 g – 100 g	265,-		962-416	74,-			339,-
334-044	1 g – 200 g	360,-		962-417	94,-			454,-
334-054	1 g – 500 g	425,-		962-418	104,-			529,-
334-064	1 g – 1 kg	560,-		962-419	114,-			674,-
334-074	1 g – 2 kg	850,-		962-420	144,-			994,-
334-084	1 g – 5 kg	1120,-		962-421	159,-			1279,-

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

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
338-22	1 mg – 500 mg	143,-		962-450	96,-			239,-
333-02	1 mg – 50 g	365,-		962-401	160,-			525,-
333-03	1 mg – 100 g	405,-		962-402	170,-			575,-
333-04	1 mg – 200 g	495,-		962-403	190,-			685,-
333-05	1 mg – 500 g	570,-		962-404	200,-			770,-
333-06	1 mg – 1 kg	690,-		962-405	210,-			900,-
333-07	1 mg – 2 kg	970,-		962-406	240,-			1210,-
333-08	1 mg – 5 kg	1250,-		962-407	255,-			1505,-
333-09	1 mg – 10 kg	1750,-		962-408	270,-			2020,-
334-02	1 g – 50 g	225,-		962-415	64,-			289,-
334-03	1 g – 100 g	265,-		962-416	74,-			339,-
334-04	1 g – 200 g	360,-		962-417	94,-			454,-
334-05	1 g – 500 g	425,-		962-418	104,-			529,-
334-06	1 g – 1 kg	560,-		962-419	114,-			674,-
334-07	1 g – 2 kg	850,-		962-420	144,-			994,-
334-08	1 g – 5 kg	1120,-		962-421	159,-			1279,-
334-09	1 g – 10 kg	1610,-		962-422	174,-			1784,-

**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 184.

Test weights class M1

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
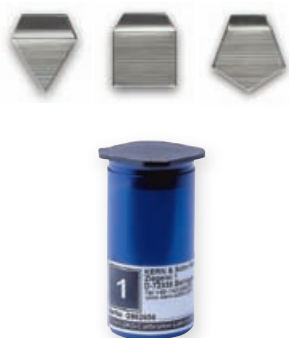
Milligram weight			+	Container		+	DAkkS certificate		=	Package price	
KERN	Tol ± mg	€		KERN	€		KERN	€		KERN	€
348-01	1 mg	0,20	**4,10**		347-009-400	2,-		962-651	14,-		20,10
348-02	2 mg	0,20	**4,10**		347-009-400	2,-		962-652	14,-		20,10
348-03	5 mg	0,20	**4,10**		347-009-400	2,-		962-653	14,-		20,10
348-04	10 mg	0,25	**4,10**		347-009-400	2,-		962-654	14,-		20,10
348-05	20 mg	0,3	**4,10**		347-009-400	2,-		962-655	14,-		20,10
348-06	50 mg	0,4	**4,10**		347-009-400	2,-		962-656	14,-		20,10
348-07	100 mg	0,5	**4,10**		347-009-400	2,-		962-657	14,-		20,10
348-08	200 mg	0,6	**4,10**		347-009-400	2,-		962-658	14,-		20,10
348-09	500 mg	0,8	**4,10**		347-009-400	2,-		962-659	14,-		20,10

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	14,-		20,10
347-42	2 g	1,2	**4,40**		347-030-400	2,-		962-632	14,-		20,40
347-43	5 g	1,6	**4,80**		347-030-400	2,-		962-633	14,-		20,80
347-44	10 g	2,0	**5,30**		347-050-400	2,-		962-634	14,-		21,30
347-45	20 g	2,5	**5,70**		347-050-400	2,-		962-635	14,-		21,70
347-46	50 g	3,0	**6,70**		347-070-400	2,-		962-636	14,-		22,70
347-47	100 g	5,0	**8,60**		347-070-400	2,-		962-637	15,-		25,60
347-48	200 g	10	**13,-**		347-080-400	2,-		962-638	15,-		30,-
347-49	500 g	25	**28,-**		347-090-400	3,-		962-639	15,-		46,-
347-51	1 kg	50	**43,-**		347-110-400	3,-		962-641	15,-		61,-
347-52	2 kg	100	**77,-**		347-120-400	3,-		962-642	16,-		96,-
347-53	5 kg	250	**165,-**		347-130-400	9,-		962-643	16,-		190,-
347-54	10 kg	500	**310,-**		347-140-400	9,-		962-644	16,-		335,-
Finely turned stainless steel											
347-01	1 g	1,0	**4,60**		347-030-400	2,-		962-631	14,-		20,60
347-02	2 g	1,2	**4,90**		347-030-400	2,-		962-632	14,-		20,90
347-03	5 g	1,6	**5,40**		347-030-400	2,-		962-633	14,-		21,40
347-04	10 g	2,0	**5,80**		347-050-400	2,-		962-634	14,-		21,80
347-05	20 g	2,5	**6,50**		347-050-400	2,-		962-635	14,-		22,50
347-06	50 g	3,0	**8,20**		347-070-400	2,-		962-636	14,-		24,20
347-07	100 g	5,0	**11,-**		347-070-400	2,-		962-637	15,-		28,-
347-08	200 g	10	**16,-**		347-080-400	2,-		962-638	15,-		33,-
347-09	500 g	25	**34,-**		347-090-400	3,-		962-639	15,-		52,-
347-11	1 kg	50	**54,-**		347-110-400	3,-		962-641	15,-		72,-
347-12	2 kg	100	**92,-**		347-120-400	3,-		962-642	16,-		111,-
347-13	5 kg	250	**196,-**		347-130-400	9,-		962-643	16,-		221,-
347-14	10 kg	500	**385,-**		347-140-400	9,-		962-644	16,-		410,-

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	16,-		671,-
347-151	20 kg	1,00	137x217 mm	**530,-**		337-151-200	235,-		962-645	21,-		786,-
347-161	50 kg	2,50	198x250 mm	**1510,-**		337-161-200	345,-		962-646	23,-		1878,-

18

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 removable plastic box

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
348-22	1 mg – 500 mg	69,-		962-650	60,-			129,-
Finely turned brass								
343-424	1 mg – 50 g	149,-		962-601	100,-			249,-
343-434	1 mg – 100 g	162,-		962-602	106,-			268,-
343-444	1 mg – 200 g	191,-		962-603	118,-			309,-
343-454	1 mg – 500 g	220,-		962-604	124,-			344,-
343-464	1 mg – 1 kg	305,-		962-605	130,-			435,-
343-474	1 mg – 2 kg	485,-		962-606	144,-			629,-
343-484	1 mg – 5 kg	710,-		962-607	151,-			861,-
344-424	1 g – 50 g	81,-		962-615	40,-			121,-
344-434	1 g – 100 g	94,-		962-616	46,-			140,-
344-444	1 g – 200 g	124,-		962-617	58,-			182,-
344-454	1 g – 500 g	158,-		962-618	64,-			222,-
344-464	1 g – 1 kg	250,-		962-619	70,-			320,-
344-474	1 g – 2 kg	430,-		962-620	84,-			514,-
344-484	1 g – 5 kg	650,-		962-621	91,-			741,-
Finely turned stainless steel								
343-024	1 mg – 50 g	155,-		962-601	100,-			255,-
343-034	1 mg – 100 g	170,-		962-602	106,-			276,-
343-044	1 mg – 200 g	205,-		962-603	118,-			323,-
343-054	1 mg – 500 g	245,-		962-604	124,-			369,-
343-064	1 mg – 1 kg	335,-		962-605	130,-			465,-
343-074	1 mg – 2 kg	540,-		962-606	144,-			684,-
343-084	1 mg – 5 kg	800,-		962-607	151,-			951,-
344-024	1 g – 50 g	88,-		962-615	40,-			128,-
344-034	1 g – 100 g	102,-		962-616	46,-			148,-
344-044	1 g – 200 g	139,-		962-617	58,-			197,-
344-054	1 g – 500 g	179,-		962-618	64,-			243,-
344-064	1 g – 1 kg	285,-		962-619	70,-			355,-
344-074	1 g – 2 kg	490,-		962-620	84,-			574,-
344-084	1 g – 5 kg	750,-		962-621	91,-			841,-

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

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
348-22	1 mg – 500 mg	69,-		962-650	60,-			129,-
Finely turned brass								
343-42	1 mg – 50 g	149,-		962-601	100,-			249,-
343-43	1 mg – 100 g	162,-		962-602	106,-			268,-
343-44	1 mg – 200 g	191,-		962-603	118,-			309,-
343-45	1 mg – 500 g	220,-		962-604	124,-			344,-
343-46	1 mg – 1 kg	305,-		962-605	130,-			435,-
343-47	1 mg – 2 kg	485,-		962-606	144,-			629,-
343-48	1 mg – 5 kg	710,-		962-607	151,-			861,-
343-49	1 mg – 10 kg	1090,-		962-608	158,-			1248,-
344-42	1 g – 50 g	81,-		962-615	40,-			121,-
344-43	1 g – 100 g	94,-		962-616	46,-			140,-
344-44	1 g – 200 g	124,-		962-617	58,-			182,-
344-45	1 g – 500 g	158,-		962-618	64,-			222,-
344-46	1 g – 1 kg	250,-		962-619	70,-			320,-
344-47	1 g – 2 kg	430,-		962-620	84,-			514,-
344-48	1 g – 5 kg	650,-		962-621	91,-			741,-
344-49	1 g – 10 kg	1020,-		962-622	98,-			1118,-

18

For more information, please visit www.kern-sohn.com/en · Order hotline: +49 [0] 7433 9933–0

Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
Finely turned stainless steel								
343-02	1 mg – 50 g	**155,-**		962-601	100,-			255,-
343-03	1 mg – 100g	**170,-**		962-602	106,-			276,-
343-04	1 mg – 200 g	**205,-**		962-603	118,-			323,-
343-05	1 mg – 500 g	**245,-**		962-604	124,-			369,-
343-06	1 mg – 1 kg	**335,-**		962-605	130,-			465,-
343-07	1 mg – 2 kg	**540,-**		962-606	144,-			684,-
343-08	1 mg – 5 kg	**800,-**		962-607	151,-			951,-
343-09	1 mg – 10 kg	**1250,-**		962-608	158,-			1408,-
344-02	1 g – 50 g	**88,-**		962-615	40,-			128,-
344-03	1 g – 100 g	**102,-**		962-616	46,-			148,-
344-04	1 g – 200 g	**139,-**		962-617	58,-			197,-
344-05	1 g – 500 g	**179,-**		962-618	64,-			243,-
344-06	1 g – 1 kg	**285,-**		962-619	70,-			355,-
344-07	1 g – 2 kg	**490,-**		962-620	84,-			574,-
344-08	1 g – 5 kg	**750,-**		962-621	91,-			841,-
344-09	1 g – 10 kg	**1190,-**		962-622	98,-			1288,-

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 184.

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	14,-			28,-
347-426	2 g	1,2	**13,-**		347-030-400	2,-		962-632	14,-			29,-
347-436	5 g	1,6	**14,-**		347-030-400	2,-		962-633	14,-			30,-
347-446	10 g	2,0	**15,-**		347-050-400	2,-		962-634	14,-			31,-
347-456	20 g	2,5	**16,-**		347-050-400	2,-		962-635	14,-			32,-
347-466	50 g	3,0	**20,-**		347-070-400	2,-		962-636	14,-			36,-
347-476	100 g	5	**23,-**		347-090-400	3,-		962-637	15,-			41,-
347-486	200 g	10	**31,-**		347-090-400	3,-		962-638	15,-			49,-
347-496	500 g	25	**43,-**		347-110-400	3,-		962-639	15,-			61,-
347-516	1 kg	50	**63,-**		347-120-400	3,-		962-641	15,-			81,-
347-526	2 kg	100	**104,-**		347-130-400	9,-		962-642	16,-			129,-
347-536	5 kg	250	**180,-**		347-140-400	9,-		962-643	16,-			205,-
347-546	10 kg	500	**350,-**		–	–		962-644	16,-			366,-

18

Test weights class M1

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	**14,-**			**30,-**
347-425	2 g	1,2	**15,-**	347-030-400	**2,-**		962-632	**14,-**			**31,-**
347-435	5 g	1,6	**16,-**	347-030-400	**2,-**		962-633	**14,-**			**32,-**
347-445	10 g	2,0	**19,-**	347-030-400	**2,-**		962-634	**14,-**			**35,-**
347-455	20 g	2,5	**20,-**	347-080-400	**2,-**		962-635	**14,-**			**36,-**
347-465	50 g	3,0	**22,-**	347-080-400	**2,-**		962-636	**14,-**			**38,-**
347-475	100 g	5,0	**25,-**	347-090-400	**3,-**		962-637	**15,-**			**43,-**
347-485	200 g	10	**30,-**	347-090-400	**3,-**		962-638	**15,-**			**48,-**
347-495	500 g	25	**48,-**	347-110-400	**3,-**		962-639	**15,-**			**66,-**
347-515	1 kg	50	**77,-**	347-130-400	**9,-**		962-641	**15,-**			**101,-**
347-525	2 kg	100	**116,-**	347-130-400	**9,-**		962-642	**16,-**			**141,-**
347-535	5 kg	250	**216,-**	347-140-400	**9,-**		962-643	**16,-**			**241,-**
347-545	10 kg	500	**376,-**	347-140-400	**9,-**		962-644	**16,-**			**401,-**

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	**14,-**
347-475-100**	100 g	1 kg	2 kg	**50,-**		962-637	**15,-**
347-495-100**	500 g	10 kg	20 kg	**79,-**		962-639	**15,-**
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	**16,-**			**81,-**
346-87	10 kg	0,50	**85,-**	962-644	**16,-**			**101,-**
346-88	20 kg	1,00	**116,-**	962-645	**21,-**			**137,-**
346-89	50 kg	2,50	**320,-**	962-646	**23,-**			**343,-**
Stainless steel								
346-06	5 kg	0,25	**315,-**	962-643	**16,-**			**331,-**
346-07	10 kg	0,50	**455,-**	962-644	**16,-**			**471,-**
346-08	20 kg	1,00	**580,-**	962-645	**21,-**			**601,-**
346-09	50 kg	2,50	**1490,-**	962-646	**23,-**			**1513,-**

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	**970,-**	962-691	**60,-**
346-82	200 kg	10	465x340x291 mm	**1270,-**	962-692	**60,-**
346-83	500 kg	25	750x500x314 mm	**2540,-**	962-693	**60,-**
346-84	1000 kg	50	750x500x500 mm	**3730,-**	962-694	**130,-**
346-85	2000 kg	100	1000x750x500 mm	**6060,-**	962-695	**190,-**

18

For more information, please visit www.kern-sohn.com/en · Order hotline: +49 [0] 7433 9933-0

Test weights class M2

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	14,-			19,60
357-42	2 g	4	3,90	347-030-400	2,-		962-632	14,-			19,90
357-43	5 g	5	4,30	347-030-400	2,-		962-633	14,-			20,30
357-44	10 g	6	4,70	347-050-400	2,-		962-634	14,-			20,70
357-45	20 g	8	5,20	347-050-400	2,-		962-635	14,-			21,20
357-46	50 g	10	6,20	347-070-400	2,-		962-636	14,-			22,20
357-47	100 g	16	8,-	347-070-400	2,-		962-637	15,-			25,-
357-48	200 g	30	12,-	347-080-400	2,-		962-638	15,-			29,-
357-49	500 g	80	26,-	347-090-400	3,-		962-639	15,-			44,-
357-51	1 kg	160	41,-	347-110-400	3,-		962-641	16,-			60,-
357-52	2 kg	300	69,-	347-120-400	3,-		962-642	16,-			88,-
357-53	5 kg	800	149,-	347-130-400	9,-		962-643	16,-			174,-
357-54	10 kg	1600	295,-	347-140-400	9,-		962-644	16,-			320,-

Alternative to plastic container:
Wooden boxes for individual weights. For more details on this, please see page 183

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	16,-			78,-
356-87	10 kg	1,6	82,-	962-644	16,-			98,-
356-88	20 kg	3,0	113,-	962-645	21,-			134,-
356-89	50 kg	8,0	310,-	962-646	23,-			333,-

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	40,-			118,-
354-43	1 g – 100 g	89,-	962-616	46,-			135,-
354-44	1 g – 200 g	117,-	962-617	58,-			175,-
354-45	1 g – 500 g	149,-	962-618	64,-			213,-
354-46	1 g – 1 kg	245,-	962-619	70,-			315,-
354-47	1 g – 2 kg	405,-	962-620	84,-			489,-
354-48	1 g – 5 kg	610,-	962-621	91,-			701,-
354-49	1 g – 10 kg	970,-	962-622	98,-			1068,-

18

Test weights class M3

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	**14,-**			**19,10**
367-42	2 g	12	**3,40**	347-030-400	**2,-**		962-632	**14,-**			**19,40**
367-43	5 g	16	**3,80**	347-030-400	**2,-**		962-633	**14,-**			**19,80**
367-44	10 g	20	**4,20**	347-050-400	**2,-**		962-634	**14,-**			**20,20**
367-45	20 g	25	**4,60**	347-050-400	**2,-**		962-635	**14,-**			**20,60**
367-46	50 g	30	**5,40**	347-070-400	**2,-**		962-636	**14,-**			**21,40**
367-47	100 g	50	**6,70**	347-070-400	**2,-**		962-637	**15,-**			**23,70**
367-48	200 g	100	**9,80**	347-080-400	**2,-**		962-638	**15,-**			**26,80**
367-49	500 g	250	**22,-**	347-090-400	**3,-**		962-639	**15,-**			**40,-**
367-51	1 kg	500	**35,-**	347-110-400	**3,-**		962-641	**15,-**			**53,-**
367-52	2 kg	1000	**59,-**	347-120-400	**3,-**		962-642	**16,-**			**78,-**

Class M3 Individual weights, cylindrical shape, lacquered cast iron

Test weight material: Lacquered cast iron.

Individual weight			+	DAkkS certificate		=	Package price	
KERN	Tol ±g	€		KERN	€		KERN	€
366-91	100 g	0,05	**11,-**	962-637	**15,-**			**26,-**
366-92	200 g	0,10	**12,-**	962-638	**15,-**			**27,-**
366-93	500 g	0,25	**18,-**	962-639	**15,-**			**33,-**
366-94	1 kg	0,50	**22,-**	962-641	**15,-**			**37,-**
366-95	2 kg	1,0	**40,-**	962-642	**16,-**			**56,-**
366-96	5 kg	2,5	**66,-**	962-643	**16,-**			**82,-**
366-97	10 kg	5,0	**118,-**	962-644	**16,-**			**134,-**

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	**16,-**			**75,-**
366-87	10 kg	5,0	**79,-**	962-644	**16,-**			**95,-**
366-88	20 kg	10	**110,-**	962-645	**21,-**			**131,-**
366-89	50 kg	25	**300,-**	962-646	**23,-**			**323,-**

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	**70,-**			**210,-**
362-97	1 g – 2 kg	**225,-**	962-620	**84,-**			**309,-**
362-98	1 g – 5 kg	**295,-**	962-621	**91,-**			**386,-**
362-99	1 g – 10 kg	**420,-**	962-622	**98,-**			**518,-**

For more information, please visit www.kern-sohn.com/en · Order hotline: +49 [0] 7433 9933-0

Test weights accessories

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
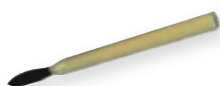
Boxes for individual weights / test weights

Box material: Lined wood
Suitable for individual weights
KERN-Nr. 307, 316, 317, 326, 327, 329

For weights ≤ 500 g

For weights ≥ 1 kg

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,-

Box material: Wood
Suitable for individual weights
KERN-Nr. 337, 347, 357, 367

For weights ≤ 500 g

For weights ≥ 1 kg

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 ≥ 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 ≥ 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,-

18

Test weights accessories

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

Aluminium case
for safe storage and transportation under harsh industrial conditions.

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 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
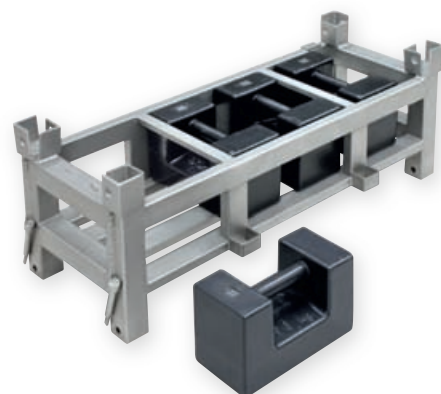
Individual weight carriers for testing high capacity floor scales, pallet scales, pallet truck scales,
crane scales, etc. This can also be used for storing the weights.
This means the weight container and the weights can be placed on the scale in one go, saving
time and money.

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.

18

Calibration service

The German Calibration Service

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 DAkkS/DKD calibration certificates. This defines not only the measuring method, but also gives information on tracing the test means to a national standard and the relevant measuring uncertainty is given.

> → **You are certified to ...**
> ISO 9001, QS 9000, GLP, GMP, TS16949
>
> → **You need ...**
> to control your measuring equipment
>
> → **Our solution ...**
> DAkkS calibration certificate (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 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 of balances with a maximum load of up to 6000 kg
- DAkkS calibration of weights in the range of 1 mg – 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

Why? DAkkS calibration 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.

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 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

Your KERN product specialist will be happy to help:

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]

Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Über-einstimmung mit dem Internationalen Einheitensystem (SI).

Hersteller *Manufacturer*	KERN & Sohn GmbH Ziegelei 1 72336 Balingen GERMANY	[3]

Die DAkkS ist Unterzeichner der multi-lateralen Übereinkommen der European co-operation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine.

Typ *Type*	PLJ 600-3CM	[4]
Fabrikate/Serien-Nr. *Serial number*	123456789	

Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist

Auftraggeber	Mustermann GmbH

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: s = 0,0006 g
Standard deviation:

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

Messunsicherheit U / *Measuring uncertainty U*

Last *Load*	Abweichung *Error*	Erweiterungs-faktor 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 191–192
[4] Identification/Applicant
[5] Metrological component
[6] Measuring uncertainty, see p. 191–192
[7] Usage accuracy, see p. 191–192
[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 6000 kg.
The calibration service is **independent of the brand.**
Preliminary maintenance work by agreement.
Prices for on-site calibration on request.
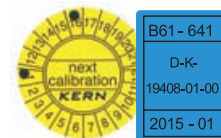
B61- 641
D-K-19408-01-00
2015 - 01

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[2] [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)		**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 DKD

	G1-123
	D-K-19408-01-00
	2014-05

Kalibrierschein 〔1〕
Calibration certificate

Kalibrierzeichen
Calibration mark

Gegenstand 〔2〕
Object
Gewichtssatz, 1 mg - 1 kg
Klasse E2
Set of weights, 1 mg - 1 kg
Class E2

Hersteller 〔3〕
Manufacturer
KERN & Sohn GmbH
Ziegelei 1
D-72336 Balingen
Germany

Typ
Type
313-052

Fabrikate/Serien-Nr.
Serial number
G123456789

Auftraggeber 〔4〕
Customer
Mustermann GmbH
Teststr.1
42446 Musterstadt
Deutschland

Auftragsnummer
2014-123456789

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

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: 〔5〕
Ambient conditions
Die Kalibrierung wurde bei folgenden Umgebungsbedingungen ausgeführt:
The calibration was carried out under the following ambient conditions:

	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: 〔7〕 〔8〕
Measurement results:

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

Note:
For more information on this subject, please see our KERN DAkkS / DKD calibration service brochure - just request your free copy.

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 167), in sizes 1 mg to 500 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 to M3, 10 to 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 schedulen

〔1〕 Official document
〔2〕 Item to be calibrated
〔3〕 Traceability, see page 191–192
〔4〕 Identification/Applicant
〔5〕 Environmental conditions
〔6〕 Metrological component
〔7〕 Conventional mass
〔8〕 Measuring uncertainty (additional price), see p. 191–192

Recalibration price of test weights (DAkkS calibration)

Class acc. OIML R111-2004 → / Nominal value ↓	E1 with volume determination KERN	Price excl. of VAT ex works €	E1 without volume determination KERN	Price excl. of VAT ex works €	E2 KERN	Price excl. of VAT ex works €	F1 / F2 * only F2 KERN	Price excl. of VAT ex works €	M1 / M2 / M3 KERN	Price excl. of VAT ex works €
1 mg	–	–	962-251R	**50,-**	962-351R	**24,-**	962-451R	**17,-**	962-651R	**14,-**
2 mg	–	–	962-252R	**50,-**	962-352R	**24,-**	962-452R	**17,-**	962-652R	**14,-**
5 mg	–	–	962-253R	**50,-**	962-353R	**24,-**	962-453R	**17,-**	962-653R	**14,-**
10 mg	–	–	962-254R	**50,-**	962-354R	**24,-**	962-454R	**17,-**	962-654R	**14,-**
20 mg	–	–	962-255R	**50,-**	962-355R	**24,-**	962-455R	**17,-**	962-655R	**14,-**
50 mg	–	–	962-256R	**50,-**	962-356R	**24,-**	962-456R	**17,-**	962-656R	**14,-**
100 mg	–	–	962-257R	**50,-**	962-357R	**24,-**	962-457R	**17,-**	962-657R	**14,-**
200 mg	–	–	962-258R	**50,-**	962-358R	**24,-**	962-458R	**17,-**	962-658R	**14,-**
500 mg	–	–	962-259R	**50,-**	962-359R	**24,-**	962-459R	**17,-**	962-659R	**14,-**
1 g	963-231	**191,-**	962-231R	**50,-**	962-331R	**24,-**	962-431R	**17,-**	962-631R	**14,-**
2 g	963-232	**191,-**	962-232R	**50,-**	962-332R	**24,-**	962-432R	**17,-**	962-632R	**14,-**
5 g	963-233	**191,-**	962-233R	**50,-**	962-333R	**24,-**	962-433R	**17,-**	962-633R	**14,-**
10 g	963-234	**191,-**	962-234R	**50,-**	962-334R	**24,-**	962-434R	**17,-**	962-634R	**14,-**
20 g	963-235	**191,-**	962-235R	**50,-**	962-335R	**24,-**	962-435R	**17,-**	962-635R	**14,-**
50 g	963-236	**191,-**	962-236R	**50,-**	962-336R	**24,-**	962-436R	**17,-**	962-636R	**14,-**
100 g	963-237	**191,-**	962-237R	**50,-**	962-337R	**31,-**	962-437R	**19,-**	962-637R	**15,-**
200 g	963-238	**191,-**	962-238R	**50,-**	962-338R	**31,-**	962-438R	**19,-**	962-638R	**15,-**
500 g	963-239	**191,-**	962-239R	**50,-**	962-339R	**31,-**	962-439R	**19,-**	962-639R	**15,-**
1 kg	963-241	**191,-**	962-241R	**50,-**	962-341R	**31,-**	962-441R	**19,-**	962-641R	**15,-**
2 kg	963-242	**465,-**	962-242R	**62,-**	962-342R	**39,-**	962-442R	**24,-**	962-642R	**16,-**
5 kg	963-243	**465,-**	962-243R	**62,-**	962-343R	**39,-**	962-443R	**24,-**	962-643R	**16,-**
10 kg	963-244	**465,-**	962-244R	**62,-**	962-344R	**39,-**	962-444R	**24,-**	962-644R	**16,-**
20 kg	963-245	**1100,-**	962-245R	**560,-**	962-345R	**50,-**	962-445R	**27,-**	962-645R	**21,-**
50 kg	963-246	**1300,-**	962-246R	**630,-**	962-346R	**62,-**	962-446R	**38,-**	962-646R	**23,-**
100 kg	–	–	–	–	–	–	962-591R*	**110,-**	962-691R	**60,-**
200 kg	–	–	–	–	–	–	962-592R*	**110,-**	962-692R	**60,-**
500 kg	–	–	–	–	–	–	962-593R*	**110,-**	962-693R	**60,-**
1 mg – 500 mg	–	–	962-250R	**335,-**	962-350R	**180,-**	962-450R	**96,-**	962-650R	**60,-**
1 mg – 50 g	963-201	**1060,-**	962-201R	**540,-**	962-301R	**300,-**	962-401R	**160,-**	962-601R	**100,-**
1 mg – 100 g	963-202	**1160,-**	962-202R	**560,-**	962-302R	**322,-**	962-402R	**170,-**	962-602R	**106,-**
1 mg – 200 g	963-203	**1340,-**	962-203R	**610,-**	962-303R	**366,-**	962-403R	**190,-**	962-603R	**118,-**
1 mg – 500 g	963-204	**1430,-**	962-204R	**640,-**	962-304R	**388,-**	962-404R	**200,-**	962-604R	**124,-**
1 mg – 1 kg	963-205	**1520,-**	962-205R	**670,-**	962-305R	**410,-**	962-405R	**210,-**	962-605R	**130,-**
1 mg – 2 kg	963-206	**1980,-**	962-206R	**720,-**	962-306R	**470,-**	962-406R	**240,-**	962-606R	**144,-**
1 mg – 5 kg	963-207	**2430,-**	962-207R	**740,-**	962-307R	**500,-**	962-407R	**255,-**	962-607R	**151,-**
1 mg – 10 kg	963-208	**2870,-**	962-208R	**770,-**	962-308R	**530,-**	962-408R	**270,-**	962-608R	**158,-**
1 g – 50 g	963-215	**760,-**	962-215R	**235,-**	962-315R	**120,-**	962-415R	**64,-**	962-615R	**40,-**
1 g – 100 g	963-216	**850,-**	962-216R	**260,-**	962-316R	**142,-**	962-416R	**74,-**	962-616R	**46,-**
1 g – 200 g	963-217	**1030,-**	962-217R	**310,-**	962-317R	**186,-**	962-417R	**94,-**	962-617R	**58,-**
1 g – 500 g	963-218	**1120,-**	962-218R	**335,-**	962-318R	**208,-**	962-418R	**104,-**	962-618R	**64,-**
1 g – 1 kg	963-219	**1220,-**	962-219R	**360,-**	962-319R	**230,-**	962-419R	**114,-**	962-619R	**70,-**
1 g – 2 kg	963-220	**1760,-**	962-220R	**410,-**	962-320R	**290,-**	962-420R	**144,-**	962-620R	**84,-**
1 g – 5 kg	963-221	**2210,-**	962-221R	**435,-**	962-321R	**320,-**	962-421R	**159,-**	962-621R	**91,-**
1 g – 10 kg	963-222	**2660,-**	962-222R	**465,-**	962-322R	**350,-**	962-422R	**174,-**	962-622R	**98,-**

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 – 1 kg, incl. volume determination	15 working days
Class E1, ≥ 2 kg, incl. volume determination	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 186

Calibration hotline: +49 [0] 7433 9933-0 · Internet: www.kern-lab.com

Verification prices for test weights

Class acc. → OIML R111-2004	E2 with verification certificate		F1 / F2 with verification certificate		M1 / M3 with verification certificate * only M1	
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	25,-	952-451	18,-	952-651*	15,-
2 mg	952-352	25,-	952-452	18,-	952-652*	15,-
5 mg	952-353	25,-	952-453	18,-	952-653*	15,-
10 mg	952-354	25,-	952-454	18,-	952-654*	15,-
20 mg	952-355	25,-	952-455	18,-	952-655*	15,-
50 mg	952-356	25,-	952-456	18,-	952-656*	15,-
100 mg	952-357	25,-	952-457	18,-	952-657*	15,-
200 mg	952-358	25,-	952-458	18,-	952-658*	15,-
500 mg	952-359	25,-	952-459	18,-	952-659*	15,-
1 g	952-331	25,-	952-431	18,-	952-631	15,-
2 g	952-332	25,-	952-432	18,-	952-632	15,-
5 g	952-333	25,-	952-433	18,-	952-633	15,-
10 g	952-334	25,-	952-434	18,-	952-634	15,-
20 g	952-335	25,-	952-435	18,-	952-635	15,-
50 g	952-336	25,-	952-436	18,-	952-636	15,-
100 g	952-337	33,-	952-437	20,-	952-637	16,-
200 g	952-338	33,-	952-438	20,-	952-638	16,-
500 g	952-339	33,-	952-439	20,-	952-639	16,-
1 kg	952-341	33,-	952-441	20,-	952-641	16,-
2 kg	952-342	41,-	952-442	25,-	952-642	17,-
5 kg	952-343	41,-	952-443	25,-	952-643	17,-
10 kg	952-344	41,-	952-444	25,-	952-644	17,-
20 kg	952-345	53,-	952-445	28,-	952-645	22,-
50 kg	952-346	65,-	952-446	40,-	952-646	24,-
1 mg – 500 mg	952-350	189,-	952-450	101,-	952-650*	63,-
1 mg – 50 g	952-301	315,-	952-401	168,-	952-601*	105,-
1 mg – 100 g	952-302	340,-	952-402	179,-	952-602*	111,-
1 mg – 200 g	952-303	385,-	952-403	200,-	952-603*	124,-
1 mg – 500 g	952-304	405,-	952-404	210,-	952-604*	130,-
1 mg – 1 kg	952-305	430,-	952-405	220,-	952-605*	137,-
1 mg – 2 kg	952-306	495,-	952-406	250,-	952-606*	151,-
1 mg – 5 kg	952-307	530,-	952-407	270,-	952-607*	159,-
1 mg – 10 kg	952-308	560,-	952-408	285,-	952-608*	166,-
1 g – 50 g	952-315	126,-	952-415	67,-	952-615	42,-
1 g – 100 g	952-316	149,-	952-416	78,-	952-616	48,-
1 g – 200 g	952-317	195,-	952-417	99,-	952-617	61,-
1 g – 500 g	952-318	220,-	952-418	109,-	952-618	67,-
1 g – 1 kg	952-319	240,-	952-419	120,-	952-619	74,-
1 g – 2 kg	952-220	305,-	952-420	151,-	952-620	88,-
1 g – 5 kg	952-321	335,-	952-421	167,-	952-621	96,-
1 g – 10 kg	952-322	370,-	952-422	183,-	952-622	103,-

KERN verification delivery time	
Standard verification service Class E2 – M3	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 – M3)	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

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	80,-
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	60,-
Electronic balances, class III–IV, [Max] > 5 kg – 50 kg [1]	965-228	55,-	950-128R	70,-
Electronic balances, class III–IV, [Max] > 50 kg – 350 kg [1]	965-229	93,-	950-129R	120,-
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,-
Electronic balances, class III–IV, [Max] > 6000 kg – 12000 kg [1]	–	–	950-133R	670,-
Electronic balances, class III–IV, [Max] > 12000 kg – 31000 kg [2]	–	–	–	–
Electronic balances, class III–IV, [Max] > 31000 kg – 50000 kg [2]	–	–	–	–

[1] processing time 4 working days, [2] processing time 15 working days

19

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	**185,-**	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,-**

19

Calibration hotline: +49 [0] 7433 9933-0 · Internet: www.kern-lab.com

Glossary

A

Accuracy classes for test weights

E, F, M ➔ *Error limit classes*

Adjusting of measuring equipment

Precise setting of a measure 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.**

Application accuracy

Allowance for ➔ *measuring uncertainty* during practical use of a balance. Is given in the appendix to the DAkkS 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. through 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

Almost identical regarding measuring technology. For verified balances certain details are regulated by law, e.g. software changes and additional markings.

C

Calibration Certificate DKD/DAkkS

Documentation of measured characteristics of balances or test weights and of traceability to the national standard. Additional price.

Calibration of measuring equipment:

determination of the precision of a measure 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*

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 that you have measuring equipment which is working accurately. DIN/EN/ISO 9001, December Edition 2008 states in section 7.6 "Guidance of monitoring and measuring equipment", that measuring equipment must be calibrated at defined intervals and before use. The measuring devices and measuring standards needed to do this must:

- be traced back to international or national standards. (➔ *Traceability to the National Standard*)
- their measuring uncertainty must be known
- they must be marked with a clear identification
- the test must be documented

The ➔ *DKD/DAkkS calibration* fulfils all these requirements.

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.

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

Data interface/parameters

To connect the balance to a printer, PC, network or a second balance. The interfaces available are stated in the model description. Typical interfaces are, for example, RS-232, USB, LAN, DUAL, Digital I/O etc. The interface parameters can be set using the balance.

DKD = German Calibration Service
DAkkS = German accreditation authority

See product group 19 "Calibration service"

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 in accordance with R111 OIML

For further details, see chapter 18 "Test weights"

F

FACTORY

These options can only be carried out in the 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*

Gravitational force

very important influence on precise electronic balances. Due to the varying influence balances have to be ➔ *adjusted* at the location of use. ➔ *Adjusting the weighing range of a balance*

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 measuring devices for accuracy in accordance with a procedure which is recognised, but not accredited.

ISO/GLP record keeping

Quality Assurance Systems demand record keeping of weighing results and the 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.

L

Linearity/precision

Greatest deviation of the weight display of a balance to the value of the respective test weight in terms of plus and minus over the whole weighing range.

Glossary

M

Minimum load [Min]

Lower limit of the verifiable weighing range.
Is marked on the verification plate.
The function of the balance is also
given below the minimum load.

O

Optimisation of reference weight when piece counting

The reference weight is generated auto-
matically several times during the counting
process. Increases the counting accuracy.

P

Permissible ambient temperature

Measuring errors are possible with readings of
either side of the limits. With verified balances
this is stated on the identification plate.

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).

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 measuring equipment*

Reference weight (when piece counting)

See product group 10 "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.

S

SC-TECH = Single-Cell Technology

➔ *FORCE*. The load cell consists of a
single aluminium block, which gives
a very high measuring 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 19 "DAkkS-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 measure-
ment 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.

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.
With increasing the uncertainty load of
measurement rises, see product group
19 "DAkkS-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 there-
fore necessary to advise the location of use
and post-code.
See individual model details for the informa-
tion 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 the verification, therefore it is
not sealed. In this case the 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 reverified.

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.

Retailer information

Sales conditions

All prices are valid as of January 1st 2015 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, i.e. 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 customised items, such as, for example, special orders or test services such as, e.g. calibration, verification, etc.

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 through 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 (no 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.

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 at 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 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 191 ➔ *Adjusting*

Keyword index

KERN Pictograms

Internal adjusting:
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).
`CAL INT`

Adjusting program CAL:
For quick setting up of the balance's accuracy. External adjusting weight required.
`CAL EXT`

Memory:
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.
`MEMORY`

Data interface RS-232:
To connect the balance to a printer, PC or network.
`RS 232`

RS-485 data interface:
To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.
`RS 485`

USB data interface:
To connect the balance to a printer, PC or other peripherals.
`USB`

Bluetooth data interface:
To transfer data from the balance to a printer, PC or other peripherals.
`BT`

WLAN data interface:
To transfer data from the balance to a printer, PC or other peripherals.
`WLAN`

Control outputs (optocoupler, digital I/O):
To connect relays, signal lamps, valves, etc.
`SWITCH`

Interface for second balance:
For direct connection of a second balance.
`DUAL`

Network interface:
For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.
`LAN`

GLP/ISO log:
The balance displays the weight, date and time, regardless of a printer connection.
`GLP INTERN`

GLP/ISO log:
With weight, date and time. Only with KERN printers, see "Accessories"
`GLP PRINTER`

Piece counting:
Reference quantities selectable. Display can be switched from piece to weight.
`PCS`

Recipe level A:
Separate memory for the weight of the tare container and the recipe ingredients (net total).
`A RECIPE`

Recipe level B:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.
`B RECIPE`

Recipe level C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation functions.
`C RECIPE`

Totalising level A:
The weights of similar items can be added together and the total can be printed out.
`A SUM`

Totalising level C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation.
`C SUM`

Percentage determination:
Determining the deviation in % from the target value (100 %).
`PERCENT`

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.
`UNIT`

Weighing with tolerance range:
Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.
`TOL`

Vibration-free weighing:
(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.
`MOVE`

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram. For details see the glossary.
`IP`

ATEX explosion protection:
Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.
`ATEX`

Stainless steel:
The balance is protected against corrosion.
`INOX`

Suspended weighing:
Load support with hook on the underside of the balance.
`UNDER`

Battery operation:
Ready for battery operation. The battery type is specified for each device.
`BATT`

Rechargeable battery pack:
Rechargeable set.
`ACCU`

Mains adapter:
230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
`230 V`

Power supply:
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
`230 V`

Strain gauges:
Electrical resistor on an elastic deforming body.
`DMS`

Tuning fork principle:
A resonating body is electromagnetically excited, causing it to oscillate.
`T-FORK`

Electromagnetic force compensation:
Coil inside a permanent magnet. For the most accurate weighings.
`FORCE`

Single cell technology:
Advanced version of the force compensation principle with the highest level of precision.
`SC TECH`

Verification possible:
The time required for verification is specified in the pictogram.
`M +3 DAYS`

DAkkS calibration possible:
The time required for DAkkS calibration is shown in days in the pictogram.
`DAkkS +3 DAYS`

Package shipment:
The time required for internal shipping preparations is shown in days in the pictogram.
`1 DAY`

Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram.
`2 DAYS`

Warranty:
The warranty period is shown in the pictogram.
`3 YEARS WARRANTY`

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.

Medical scales catalogue

Complete line of medical scales, from infant scales to professional patient scales, chair scales and adiposity scales, as well as innovative 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 hardness measuring systems.

KERN DAkkS calibration service brochure

Detailed information on topics pertaining to the calibration of balances, test weights, and force measuring devices.

KERN branch prospectuses

Compact overview of the bestsellers for many different lines of business – just the balances your customers need!

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

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).

Price performance ratio
KERN scales are always an inexpensive alternative. They are durable, uncomplicated and easy to place into operation.

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).

3 years warranty
Items under € 400,–: 2 years

No stock-keeping necessary.
KERN does the warehousing for you.

Sale or return
within 14 days of purchase.

Tradition and innovation for more than 170 years

An independent family business, KERN since already 6 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
New customer portal www.kern-sohn.com goes live

▸ 2013
Starting construction of Ziegelei 2.0 with computer-controlled high-bay warehouse

▸ 2014
Expansion of the product range to include optical instruments (microscopes and refractometers)

👆 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