





PRECISION BALANCES

PROFESSIONAL
MEASURING



2018

KERN Pictograms

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	 Suspended weighing: Load support with hook on the underside of the balance
 Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required	 GLP/ISO log: With weight, date and time. Only with KERN printers, see page 154/155	 Battery operation: Ready for battery operation. The battery type is specified for each device
 Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight	 Rechargeable battery pack: Rechargeable set
 Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 191	 Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 Universal mains adapter: with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS
 Data interface RS-232: To connect the balance to a printer, PC or network	 Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available
 RS-485 data interface: To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	 Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 USB data interface: To connect the balance to a printer, PC or other peripherals	 Totalising level A: The weights of similar items can be added together and the total can be printed out	 Weighing principle: Strain gauges Electrical resistor on an elastic deforming body
 Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals	 Percentage determination: Determining the deviation in % from the target value (100 %)	 Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals	 Weighing units: Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details	 Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings
 Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	 Weighing with tolerance range: (Checkweighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model	 Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision
 Interface for second balance: For direct connection of a second balance	 Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 Verification possible: The time required for verification is specified in the pictogram
 Network interface: For connecting the scale to an Ethernet network	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see page 58	 DAkkS calibration possible (DKD): The time required for DAkkS calibration is shown in days in the pictogram
 Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module	 Stainless steel: The balance is protected against corrosion	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram
 KERN Communication Protocol (KCP): It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram	

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 such as verification, calibration, etc.



Medical scales catalogue

Complete line of medical scales, from infant scales to patient scales, chair scales and adiposity scales, as well as hand grip dynamometers, chemist's balances and veterinary scales.



Microscopes & refractometers catalogue

Extensive range in the area of optical instruments, such as, for example, biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers.



SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness and calibration service.



DAkKS calibration service brochure

Detailed information on topics pertaining to the calibration and verification of balances, test weights, and force measuring devices.

Your advantages

fast

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

reliable

- Up to 3 years warranty
- Precision in weighing technology for more than 170 years

competent

- DAkKS accreditation
DIN EN ISO/IEC 17025
- Certified QM system
DIN EN ISO 9001
- Authorisation for initial verification by the manufacturer 2014/31/EU
- Medical certifications
DIN EN ISO 13485 and
93/42/EEC

versatile

- One-stop shopping: from pocket balances through to 15 t crane balance – everything from one supplier
- Find the product you want at lightning speed with the “Balance Quick-Finder” at www.kern-sohn.com



Order hotline

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Calibration hotline

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Our team of consultants will assist you

from Monday to Friday
from 8:00 am to 6:00 pm



Online Shop

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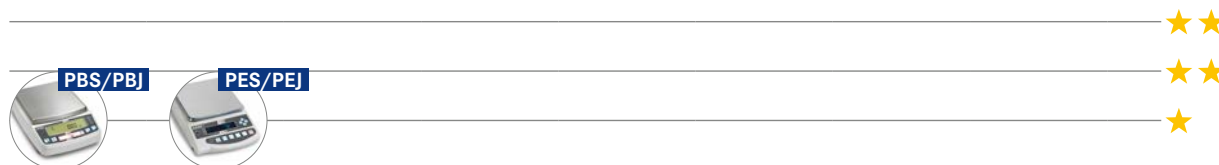
www.kern-sohn.com

Information on current product availability, product data sheets, user instructions, useful knowledge, technical glossary, images and much for you to download, practical topic areas, which will guide you to the right product in your industry as well as a clever test weight and balance search engine.

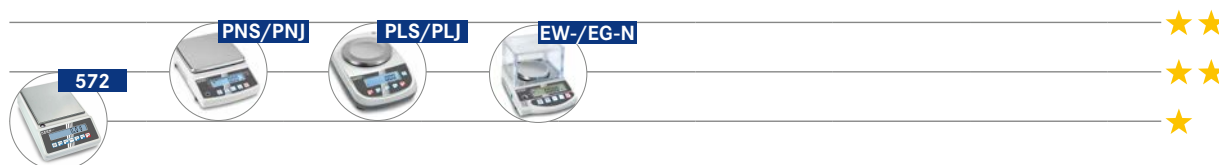
Precision balances

Here you'll find a complete summary of the KERN laboratory scales series and their positioning within the precision scales segment on the basis of application, price-performance ratio and functional volume

PREMIUM LABORATORY BALANCES



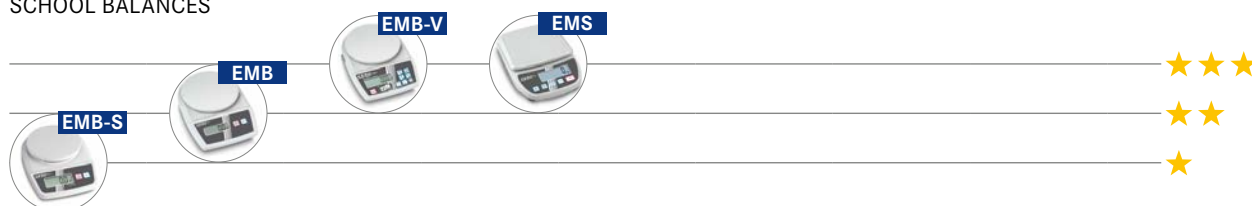
STANDARD LABORATORY BALANCES



BASIC LABORATORY BALANCES



SCHOOL BALANCES



HIGH-LIGHT

from €

220,-

page 23

FACE LIFT



- ▶ High resolution precision balance
- ▶ Concept of easy use
- ▶ Stable housing
- ▶ Available with separate second display

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KERN PFB

Precision balances

KERN school balances

are entry-level devices in the field of laboratory balances, and they cover basic applications. They feature simple operation and the very best price/performance ratio. In addition they can be stacked and can also be operated by battery, as an alternative to mains power, which means that they have the flexibility to be used in different locations.

KERN Basic laboratory balances

are used in laboratory applications mostly as single-user balances for sample preparation, etc. They are fitted with all useful laboratory functions which will support the user in a helpful way. With their strain gauge measuring principle, they are used anywhere where individual weighings are carried out, such as, for example, checkweighing. These devices are often connected to printers or local PCs using the standard, integrated RS-232 data interface.

KERN Basic standard laboratory balances

offer you all the tools you would need for effective and accurate work in your laboratory environment. All important laboratory functions such as a recipe weighing function or data interfaces are on board at all times. But above all, the high-quality measuring principles of these balances such as force compensation or tuning fork measuring principle, allow them to be used in dosing procedures with very small

weight changes and rapid display. In addition these balances are often fitted with automatic internal adjustment, which permits calibrated operation and means the balance can be used in any location.

KERN premium laboratory balances

are right at the top of the precision balance segment. The numerous equipment features of the standard balances are complemented by high-quality materials with robust, sturdy construction, high-quality, high-performance weighing systems, optimised operating sequences, speed benefits and in some cases, the most modern touchscreen technology. With its touchscreen technology a premium laboratory balance will support your

users in their typical procedures. In this way these scales can be operated more efficiently and quickly than devices from other quality classes. In particular these balances are used in demanding laboratory applications and anywhere where the environmental conditions are not ideal because of vibrations or other interference, but where, naturally, the balance is expected to provide accurate weighing results. Another field of application for these balances is the pharmaceutical industry, which is subject to particularly demanding requirements and regulations such as, for example, the FDA (Food and Drug Administration).

In order to make it easier for you to make the right choice of KERN balance, we have included a quality code for each model, which is made up of two quality features and will give you technical data and pictograms in addition to the product features. This will help you to make the decision on the perfect balance for your application:



The stability quality feature

On the basis of the information on the housing material and total weight of the balance, the stability quality feature gives you an indication of the types of application for which the balance is particularly well-suited. Due to their low weight, materials such as plastic allows structures which are particularly advantageous for mobile applications. The appeal of models which are used to process high-quality, heavy material, such as, for example, aluminium casting or steel, is their durability and robustness and the fact that they are less susceptible to vibrations. A high level of stability allows rapid, repeatable weighing results.











Categorisation in **A, B, C, best value: C**

The dosing level quality feature

comes from the values for reaction time, stabilisation time and behaviour during long-term weighing procedures. These parameters give information about how well-suited a model is for fine dosing, amongst other functions. In particular with these dosing procedures, the balance performs a balancing act between filtering out disruptive environmental influences, such as, for example, vibrations on the one hand, and the highest level of accuracy as well as rapid display when weighing goods right down to the smallest division [d] on the other hand. In addition this value is printed, whether drift effects influence the continuous measurement in long-term trials. Categorisation into **A, B, C, best value: C**

If you have further questions on the subject of “Which balance will be best for my application?”, then please ask your personal KERN product specialist who will be happy to help you.

Quick-Finder Precision balances

Readout [d] g	Weighing range [Max] g	Model KERN	Price excl. of VAT ex works €	Page	Quality code QUA LITY	 DAYS										For an explanation on the pictos, see front flap									
0,001	60	440-21A	350,-	22	AA	1			●			●	●		●	○									
0,001	100	EMB 100-3	195,-	17	AA	1			●						●										
0,001	100	PCB 100-3	265,-	21	AA	1			●			●	●		●	○									
0,001	120	PFB 120-3	280,-	23	BA	1			●			●	●												
0,001	120	KB 120-3N	290,-	25	AA	1			●			●	●			○									
0,001	200	EMB 200-3	210,-	17	AA	1			●						●										
0,001	200	EMB 200-3V	250,-	18	AA	1			●			●	●		●										
0,001	200	PFB 200-3	290,-	23	BA	1			●			●	●												
0,001	220	EW 220-3NM	620,-	30	AB	1			●			●	●			○									
0,001	220	EG 220-3NM	760,-	30	BB	1	○	●				●	●			○									
0,001	240	KB 240-3N	300,-	25	AA	1			●			●	●			○									
0,001	240	572-30	520,-	27	BA	1			●			●	●			○									
0,001	250	PCD 250-3	305,-	20	AA	1			●			●	●		●	○									
0,001	250	PCB 250-3	290,-	21	AA	1			●			●	●		●	○									
0,001	300	EMS 300-3	260,-	19	AA	1			●			●	●		●										
0,001	300	PFB 300-3	320,-	23	BA	1			●			●	●												
0,001	300	EWJ 300-3	450,-	26	BA	1		●				●	●			○									
0,001	300	EWJ 300-3H	490,-	26	BA	1		●				●	●			○									
0,001	300	572-31	530,-	27	BA	1			●			●	●			○									
0,001	350	PCD 300-3	350,-	20	AA	1			●			●	●		●	○									
0,001	350	PCB 350-3	300,-	21	AA	1			●			●	●		●	○									
0,001	360	KB 360-3N	310,-	25	AA	1			●			●	●			○									
0,001	420	PLE 420-3N	450,-	24	AA	1			●			●	●			○									
0,001	420	572-32	540,-	27	BA	1			●			●	●			○									
0,001	420	PLS 420-3F	590,-	28	BA	1			●			●	●			○									
0,001	420	PLJ 420-3F	700,-	28	BA	1		●				●	●			○									
0,001	420	EW 420-3NM	690,-	30	AB	1			●			●	●			○									
0,001	420	EG 420-3NM	830,-	30	BB	1	○	●				●	●			○									
0,001	620	PNS 600-3	620,-	29	BB	1			●			●	●			○									
0,001	620	PNJ 600-3M	730,-	29	BB	1	○	●				●	●			○									
0,001	620	EW 620-3NM	770,-	30	AB	1			●			●	●			○									
0,001	620	EG 620-3NM	930,-	30	BB	1	○	●				●	●			○									
0,001	620	PBS 620-3M	1370,-	31	BC	1			●			●	●			○									
0,001	620	PBJ 620-3M	1610,-	31	BC	1	○	●				●	●			○									
0,001	620	PES 620-3M	1280,-	32	BB	1			●			●	●			○									
0,001	620	PEJ 620-3M	1480,-	32	BB	1	○	●				●	●			○									
0,001	720	PLS 720-3A	840,-	28	BC	1			●			●	●			○									
0,001	720	PLJ 720-3A	980,-	28	CC	1			●			●	●			○									
0,001	720	PLJ 720-3AM	990,-	28	CC	1	○	●				●	●			○									
0,001	1200	PLS 1200-3A	870,-	28	BC	1			●			●	●			○									
0,001	1200	PLJ 1200-3A	1000,-	28	CC	1		●				●	●			○									
0,001	2100	PLJ 2000-3A	1650,-	28	CC	1		●				●	●			○									
0,01	200	EMB 200-2	125,-	17	AA	1			●						●										
0,01	200	PCB 200-2	230,-	21	AA	1			●			●	●		●	○									
0,01	200	440-33N	290,-	22	AA	1			●			●	●		●	○									
0,01	400	440-35N	330,-	22	AA	1			●			●	●		●	○									
0,01	600	EMB 600-2	160,-	17	AA	1			●						●										
0,01	600	440-35A	365,-	22	AA	1			●			●	●		●	○									
0,01	600	EWJ 600-2SM	350,-	26	BA	1	○	●				●	●			○									
0,01	600	EWJ 600-2M	360,-	26	BA	1	○	●				●	●			○									
0,01	650	KB 650-2N	270,-	25	BA	1			●			●	●			○									
0,01	650	573-34	590,-	27	BA	1			●			●	●			○									
0,01	820	EW 820-2NM	540,-	30	BB	1			●			●	●			○									
0,01	1000	EMB 1000-2	195,-	17	AA	1			●						●										
0,01	1000	PCB 1000-2	255,-	21	AA	1			●			●	●		●	○									
0,01	1200	PFB 1200-2	245,-	23	BA	1			●			●	●												
0,01	1200	KB 1200-2N	280,-	25	BA	1			●			●	●			○									
0,01	1600	572-33	490,-	27	BA	1			●			●	●			○									
0,01	2000	EMB 2000-2	205,-	17	AA	1			●						●										
0,01	2000	EMB 2000-2V	250,-	18	AA	1			●			●	●		●										
0,01	2000	PFB 2000-2	255,-	23	BA	1			●			●	●												
0,01	2000	KB 2000-2N	280,-	25	BA	1			●			●	●			○									
0,01	2200	EW 2200-2NM	660,-	30	BB	1			●			●	●			○									
0,01	2200	EG 2200-2NM	820,-	30	BB	1	○	●				●	●			○									
0,01	2200	PES 2200-2M	840,-	32	BB	1			●			●	●			○									
0,01	2200	PEJ 2200-2M	1060,-	32	CB	1	○	●				●	●			○									
0,01	2400	KB 2400-2N	290,-	25	BA	1			●			●	●			○									
0,01	2400	572-35	500,-	27	BA	1			●			●	●			○									
0,01	2500	PCD 2500-2	295,-	20	BA	1			●			●	●		●	○									
0,01	2500	PCB 2500-2	290,-	21	BA	1			●			●	●		●	○									
0,01	3000	EMS 3000-2	240,-	19	BA	1			●			●	●		●										
0,01	3000	PFB 3000-2	280,-	23	BA	1			●			●	●												

● = standard ○ = option

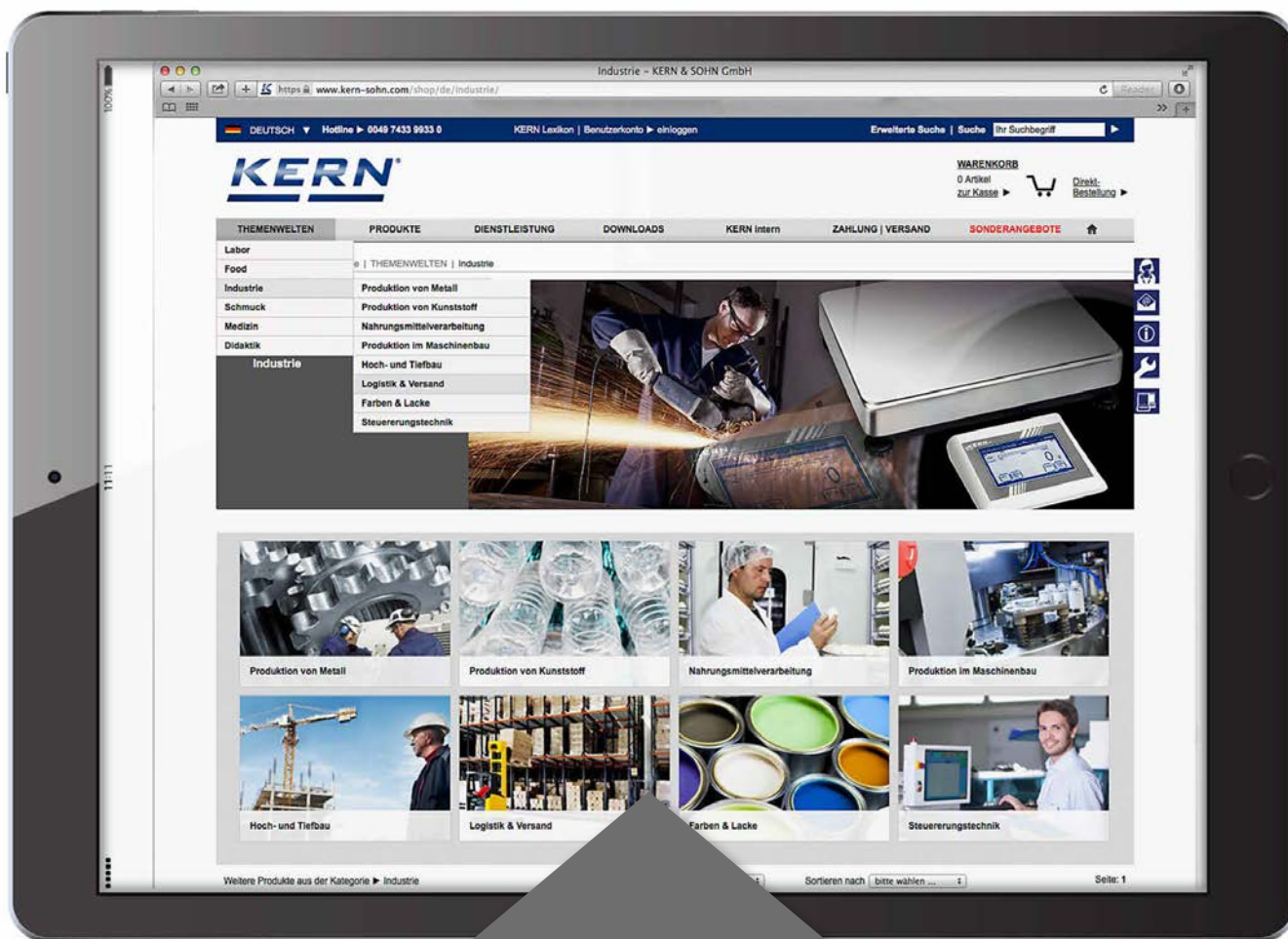
Quick-Finder Precision balances

Readout [d] g	Weighing range [Max] g	Model KERN	Price excl. of VAT ex works €	Page	Quality code O U A L I T Y	DAYS	M	CAL INT	CAL EXT	MEMORY	RS 232	PCS	TOL	BATT	ACCU
1	6000	PCB 6000-0	130,-	21	BA	1			●		●	●		●	○
1	6000	440-53N	180,-	22	AA	1			●		●	●		●	○
1	10000	PCD 10K-3	190,-	20	BA	1			●		●	●		●	○
1	12000	EMS 12K1	95,-	19	AA	1			●			●		●	○
5	5200	EMB 5.2K5	55,-	17	AA	1			●					●	○

● = standard ○ = option

03

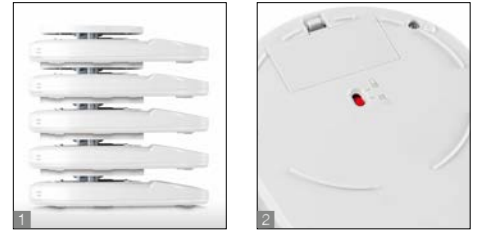
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area of expertise.

03



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

Features

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

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, \varnothing 120 mm
- Overall dimensions WxDxH 145x205x45 mm
- Optional battery operation, 2x1.5 V AA, standard, operating time up to 35 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,5 kg/piece
- Permissible ambient temperature 5 °C/35 °C
- **Note:** The models are only delivered in a set of 5 units. i.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

Accessories

- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, YKA-03, € 31,-

STANDARD OPTION

CAL EXT	UNIT	BATT	DMS	1 DAY	MULTI	DAkkS	+3 DAYS

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Price set of 5 units excl. of VAT ex works €	Option	
						DAkkS Calibr. Certificate DKD KERN	1 Piece €
EMB 200-1SS05	200	0,1	0,2	± 0,3	180,-	963-127	72,-
EMB 500-1SS05	500	0,1	0,2	± 0,3	200,-	963-127	72,-
EMB 2000-OSS05	2000	1	2	± 3	180,-	963-127	72,-
EMB 5000-OSS05	5000	1	2	± 3	200,-	963-127	72,-



03

Entry level laboratory balance with tremendous weighing performance

Features

- **Simple and convenient 2-key operation**
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Ready for use:** Batteries included
- **1 Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space $\phi \times H$ 96×35 mm
- **Hook for underfloor weighing** standard
- **2 Note: Anniversary Gnome edition KERN EMB 500-1GN**, including gnome booklet, for details see internet, only while stocks last

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, with conductive lacquer
 - A** ϕ 82 mm
 - B** ϕ 105 mm
 - C** ϕ 150 mm
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B, C** plastic
- Net weight approx. 0,75 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **3 Stainless steel weighing plate**, only for models with weighing plate size **B**, KERN EMB-A02, **€ 26,-**
- **4 Stack frame** for space-saving storage of precision balances from the KERN EMB range, scope of delivery 5 pieces, for models with housing dimensions W×D×H 170×240×39 mm: KERN EMB-A07, **€ 70,-** 170×240×54 mm: KERN EMB-A09, **€ 85,-**
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, YKA-03, **€ 31,-**

STANDARD

CAL EXT UNIT UNDER BATT DMS 1 DAY

OPTION

B MULTI DAKKS +3 DAYS

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Dimensions housing W×D×H mm	Weighing plate	Price € excl. of VAT ex works €	Option	
								DAKKS Calibr. Certificate	€
KERN								DKD KERN	
EMB 100-3	100	0,001	0,001	± 0,005	170×240×54	A	195,-	963-127	72,-
EMB 200-3	200	0,001	0,001	± 0,005	170×240×54	A	210,-	963-127	72,-
EMB 200-2	200	0,01	0,01	± 0,02	170×240×39	B	125,-	963-127	72,-
EMB 600-2	600	0,01	0,01	± 0,03	170×240×39	B	160,-	963-127	72,-
EMB 1000-2	1000	0,01	0,01	± 0,05	170×240×54	C	195,-	963-127	72,-
EMB 2000-2	2000	0,01	0,01	± 0,05	170×240×54	C	205,-	963-127	72,-
EMB 500-1	500	0,1	0,1	± 0,2	170×240×39	C	57,-	963-127	72,-
EMB 500-1BE *	500	0,1	0,1	± 0,2	170×240×39	C	57,-	963-127	72,-
EMB 1200-1	1200	0,1	0,1	± 0,3	170×240×39	C	80,-	963-127	72,-
EMB 3000-1	3000	0,1	0,1	± 0,3	170×240×39	C	125,-	963-127	72,-
EMB 6000-1	6000	0,1	0,1	± 0,3	170×240×39	C	160,-	963-128	88,-
EMB 2200-0	2200	1	1	± 2	170×240×39	C	60,-	963-127	72,-
EMB 5.2K1	5200	1	1	± 3	170×240×39	C	60,-	963-128	88,-
EMB 5.2K5	5200	5	5	± 10	170×240×39	C	55,-	963-128	88,-

* housing colour black, see KERN EMB 500-1GN

03



School 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
- **Self-explanatory graphic control panel,** the workings steps 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 Tare the balance by pressing the [TARE] key
 - 2 Select density determination mode (solids/liquids)
 - 3 Weighing of samples/plummet in air
 - 4 Weighing of samples/plummet in liquid. The density will be shown on the display right away
- **Particularly flat design**

- **Hook for underfloor weighing** standard
- **Ready for use:** Batteries included, 9 V block, operating time up to 12 h, AUTO-OFF function to preserve the battery
- **Note: Balance and appropriate set for density determination should be ordered at the same time, see accessories**

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic
 - A Ø 82 mm
 - B Ø 150 mm
- Overall dimensions W×D×H 175×245×54 mm
- Net weight approx. 0,85 kg
- Permissible ambient temperature 5 °C/35 °C
- **Now also with carat weighing unit:**
EMB 200-3V: 1000 ct/0,005 ct
EMB 2000-2V: 10000 ct/0,05 ct

Accessories

- KERN EMB 200-3V:**
- **5 Set for density determination** of liquids and solids with density ≤ 1 .
Scope of delivery: Weighing plate, beaker (H×Ø 71×51 mm), sample holder, plummet, KERN YDB-01, **€ 215,-**
 - **DAKKS-Calibration certificate** for the plummet (20 g), KERN 962-335V, **€ 143,-**
- KERN EMB 2000-2V:**
- **6 Set for density determination** of liquids and solids with density ≤ 1 .
Scope of delivery: Weighing plate, beaker (H×Ø 135×100 mm), sample holder, plummet, KERN YDB-02, **€ 330,-**
 - **DAKKS-Calibration certificate** for the plummet (200 g), KERN 962-338V, **€ 141,-**

STANDARD

- CAL EXT
- RS 232
- UNIT
- UNDER
- BATT
- MULTI
- DMS
- 1 DAY

OPTION

- DAKKS +3 DAYS

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



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 weighing plate made of plastic, with conductive lacquer**
- **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** for quick setting of the balance accuracy, external test weights at an additional price, see *Test weights*
- **1 Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 145×145×65 mm

Technical data

- LCD display, digit height 25 mm
- Dimensions weighing surface
 - A** ø 105 mm
 - B** W×D 175×190 mm, see larger picture
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B** plastic
- Overall dimensions W×D×H 200×280×63 mm (without draught shield)
- Optional battery operation, 9 V block not included, operating time up to 40 h
- External mains adapter 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,-

STANDARD

CAL EXT PCS RECIPE PERCENT UNIT BATT MULTI DMS 1 DAY

OPTION

DAKKS +3 DAYS

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

03



High-resolution precision balance with removable display for maximum flexibility

Features

- Laboratory balance with separate platform: Ideal when working in the glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **1 Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 146×146×80 mm
- **Protective working cover** included with delivery

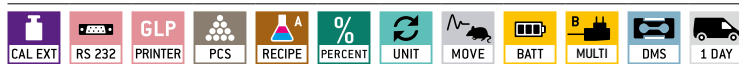
Technical data

- Large backlit LCD display, digit height 21 mm
- Dimensions weighing surface
 - A** Ø 105 mm
 - B** W×D 160×160 mm
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B** stainless steel
- Dimensions of display device W×D×H 140×46×75 mm
- Optional battery operation, 9 V block not included, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Overall dimensions W×D×H 165×280×75 mm
- Cable length of display device approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN PCD-A05S05, **€ 40,-**
- **2 Stand** to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, **€ 50,-**
- **Rechargeable battery pack internal**, operating time up to 24 h without backlight, charging time approx. 10 h,
- **3 Foot switch**, ideal when the application requires two free hands. TARE or PRINT function can be selected. Scope of delivery: foot switch, junction box, connection cable. For the PRINT function you will need the RS-232 interface cable, KERN YKF-01, **€ 85,-**, KERN PCD-A04, **€ 50,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **Individual header data:** the free software can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option	
								DAkKS Calibr. Certificate	
KERN								DKD KERN	€
PCD 250-3	250	0,001	0,002	± 0,005	A	AA	305,-	963-127	72,-
PCD 300-3	350	0,001	0,002	± 0,005	A	AA	350,-	963-127	72,-
PCD 2500-2	2500	0,01	0,02	± 0,05	B	BA	295,-	963-127	72,-
PCD 3000-2	3500	0,01	0,02	± 0,05	B	BA	350,-	963-127	72,-
PCD 6K-4	6000	0,1	0,1	± 0,3	B	BA	260,-	963-128	88,-
PCD 10K0.1	10000	0,1	0,1	± 0,3	B	BA	240,-	963-128	88,-
PCD 10K-3	10000	1	1	± 3	B	BA	190,-	963-128	88,-



The standard in the laboratory

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
- 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
- **Plus/minus weighing procedures**
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space $\varnothing \times H$ 90×40 mm
- **Protective working cover** included with delivery

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface
 - A** \varnothing 81 mm
 - B** \varnothing 105 mm
 - C** W×D 130×130 mm
 - D** W×D 150×170 mm, see larger picture
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B, C, D** stainless steel
- Overall dimensions W×D×H 163×245×79 mm (without draught shield)
- Optional battery operation, 9 V block not included, operating time up to 20 h AUTO-OFF function to preserve the battery
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
 - A** KERN PCB-A02S05, € 40,-
 - B** KERN PCB-A03S05, € 40,-
 - C** KERN PCB-A04S05, € 40,-
 - D** KERN PCB-A05S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 48 h without backlight, charging time approx. 8 h, KERN PCB-A01, € 75,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- **Balance Connection Software**, KERN SCD-4.0, € 150,-
- **Individual header data**: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option	
								DAkKS Calibr. Certificate	€
KERN						QUALITY		DKD KERN	
PCB 100-3	100	0,001	0,001	± 0,003	A	AA	265,-	963-127	72,-
PCB 250-3	250	0,001	0,001	± 0,005	A	AA	290,-	963-127	72,-
PCB 350-3	350	0,001	0,002	± 0,005	A	AA	300,-	963-127	72,-
PCB 200-2	200	0,01	0,01	± 0,02	B	AA	230,-	963-127	72,-
PCB 1000-2	1000	0,01	0,01	± 0,03	C	AA	255,-	963-127	72,-
PCB 2500-2	2500	0,01	0,01	± 0,05	C	BA	290,-	963-127	72,-
PCB 3500-2	3500	0,01	0,02	± 0,05	C	AA	300,-	963-127	72,-
PCB 1000-1	1000	0,1	0,1	± 0,2	C	AA	185,-	963-127	72,-
PCB 2000-1	2000	0,1	0,1	± 0,2	C	AA	215,-	963-127	72,-
PCB 6000-1	6000	0,1	0,1	± 0,3	D	BA	240,-	963-128	88,-
PCB 10000-1	10000	0,1	0,1	± 0,3	D	BA	245,-	963-128	88,-
PCB 6000-0	6000	1	1	± 2	D	BA	130,-	963-128	88,-



03



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 $\varnothing \times H$ 90×40 mm
- **Protective working cover** included with delivery

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface
 - A** \varnothing 81 mm
 - B** \varnothing 105 mm
 - C** W×D 130×130 mm
 - D** W×D 150×170 mm, see larger picture
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B, C, D** stainless steel
- Overall dimensions W×D×H 165×230×80 mm (without draught shield)
- Optional battery operation, 9 V block, not included, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,95 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
 - A** KERN 440-210-002S05, € 40,-
 - B** KERN 440-330-002S05, € 40,-
 - C** KERN 440-450-002S05, € 40,-
 - D** KERN 440-530-002S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, € 50,-
- **Hook for underfloor weighing**, KERN 440-A01, € 25,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- **Individual header data**: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



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



03

Quick-displaying precision balance, now with larger housing for more secure footing

Features

- **Easy to use:** All primary functions have their own key on the keypad
- **Compact size,** practical for small spaces
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **Draught shield** standard for models with weighing plate size **A** and **B**, Weighing space W×D×H 158×143×64 mm
- **Protective working cover** included with delivery
- **Note:** For further models with EC-Type Approval [M], see the internet

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface, stainless steel
 - A** ø 80 mm
 - B** ø 120 mm
 - C** W×D 155×145 mm, see larger picture
- Overall dimensions W×D×H 315×210×156 mm (without draught shield)
- Net weight approx. 2,0 kg
- Permissible ambient temperature 15 °C/30 °C

Accessories

- **Protective working cover,** scope of delivery: 5 items, KERN EWJ-A04S05, **€ 40,-**
- **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, **€ 115,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, Bluetooth 2.0: KERN PFB-A10, **€ 95,-** Bluetooth 4.0: KERN PFB-A11, **€ 125,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

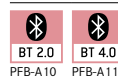
STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Price € excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
							DKD KERN	€
PFB 120-3	120	0,001	0,001	± 0,003	A	280,-	963-127	72,-
PFB 200-3	200	0,001	0,002	± 0,005	A	290,-	963-127	72,-
PFB 300-3	300	0,001	0,002	± 0,005	A	320,-	963-127	72,-
PFB 1200-2	1200	0,01	0,01	± 0,03	B	245,-	963-127	72,-
PFB 2000-2	2000	0,01	0,02	± 0,05	B	255,-	963-127	72,-
PFB 3000-2	3000	0,01	0,02	± 0,05	B	280,-	963-127	72,-
PFB 6000-2	6000	0,05	0,05	± 0,15	C	250,-	963-128	88,-
PFB 6000-1	6000	0,1	0,1	± 0,3	C	220,-	963-128	88,-



03



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

Features

- With its **exceptionally large weighing ranges and readouts**, this range offers a large pool of products to cover the most varied applications within the laboratory environment. They are therefore particularly suitable for heavy tare containers or large samples
- **Stable weighing results** thanks to the individual temperature compensation of the strain gauge measuring system which is set at the factory. It is therefore especially suitable for use in areas where there are temperature fluctuations
- The **measuring system's exceptionally high resolution** of 420.000 points ensures the highest level of accuracy with large weighing ranges. Almost unbeatable in this price category
- **Compact size**, practical for small spaces
- **Totalising** of weights
- **Draught shield** standard for models with weighing plate size **A**, weighing space $\varnothing \times H$ 125×70 mm

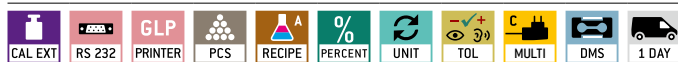
Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface, stainless steel
A \varnothing 80 mm
B \varnothing 135 mm, see larger picture
- Dimensions housing W×D×H 185×250×80 mm (without draft shield)
- Net weight approx. 1,2 kg
- Permissible ambient temperature 10 °C/30 °C

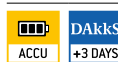
Accessories

- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN PLE-A06, **€ 35,-**
- **Set for density determination** of liquids and solids with density $\leq / \geq 1$, for models with [d] = 0,001 g, KERN ALT-A02, **€ 830,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



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

ONLY WHILE STOCKS LAST!



Compact precision balance with large weighing range

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 KB-N is a reliable partner for day-to-day work in the laboratory
- **User guidance step by step** on display by Yes/No dialogue
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space $\varnothing \times H$ 90×40 mm
- **Protective working cover** included with delivery

Technical data

- Backlit LCD display, digit height 9 mm
- Dimensions weighing surface
 - A** \varnothing 81 mm, plastic, with conductive lacquer
 - B** W×D 130×130 mm, stainless steel
 - C** W×D 150×170 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 167×250×85 mm (without draught shield)
- Net weight approx. 1,0 kg
- Permissible ambient temperature 10 °C/40 °C

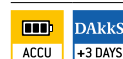
Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
 - A** KERN PCB-A02S05, € 40,-
 - B** KERN PCB-A04S05, € 40,-
 - C** KERN PCB-A05S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, € 50,-
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, € 180,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option	
								DAkkS Calibr. Certificate	€
KERN						QUALITY		DKD KERN	
KB 120-3N	120	0,001	0,001	± 0,003	A	AA	290,-	963-127	72,-
KB 240-3N	240	0,001	0,001	± 0,003	A	AA	300,-	963-127	72,-
KB 360-3N	360	0,001	0,002	± 0,005	A	AA	310,-	963-127	72,-
KB 650-2N	650	0,01	0,01	± 0,03	B	BA	270,-	963-127	72,-
KB 1200-2N	1200	0,01	0,01	± 0,03	B	BA	280,-	963-127	72,-
KB 2000-2N	2000	0,01	0,01	± 0,03	B	BA	280,-	963-127	72,-
KB 2400-2N	2400	0,01	0,01	± 0,03	B	BA	290,-	963-127	72,-
KB 3600-2N	3600	0,01	0,02	± 0,05	B	BA	310,-	963-127	72,-
KB 6500-1N	6500	0,1	0,1	± 0,3	C	BA	260,-	963-128	88,-
KB 10K0.05N	10000	0,05	0,05	± 0,15	C	BA	280,-	963-128	88,-
KB 10000-1N	10000	0,1	0,1	± 0,3	C	BA	270,-	963-128	88,-



03



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 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **USB interface** for transferring weighing data to the PC, printer, USB sticks etc.
- **Draft shield** standard on models EWJ 300-3, EWJ 600-2SM, EWJ 600-2M, weighing space W×D×H 145×160×80 mm
- **1** KERN EWJ 300-3H: **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 175×155×217 mm
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
 - A** Ø 80 mm
 - B** Ø 135 mm, see larger picture
 - C** W×D 155×145 mm
- Overall dimensions W×D×H 220×315×90 mm (without draught shield)
- Permissible ambient temperature
 - KERN EWJ: 15 °C/35 °C
 - KERN EWJ-M: 15 °C/30 °C

Accessories

- **Protective working cover,** scope of delivery: 5 items, KERN EWJ-A04S05, **€ 40,-**
- **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/moisture analyser and computer. Scope of delivery: USB cable, driver, Software BalanceConnection, KERN DBS-A02, **€ 290,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 750,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD										OPTION			FACTORY	
not EWJ-SM										not EWJ-SM			EWJ-M	

Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Price € excl. of VAT ex works €	Option			
								Verification		DAkkS Calibr. Certificate	
KERN									€		€
EWJ 300-3	300	0,001	-	-	± 0,005	A	450,-	-	-	963-127	72,-
EWJ 300-3H	300	0,001	-	-	± 0,005	A	490,-	-	-	963-127	72,-
EWJ 3000-2	3000	0,01	-	-	± 0,05	B	430,-	-	-	963-127	72,-
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.											
EWJ 600-2SM	600	0,01	0,1	0,5	± 0,03	B	350,-	965-216	66,-	963-127	72,-
EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	B	360,-	965-216	66,-	963-127	72,-
EWJ 6000-1SM	6000	0,1	1	5	± 0,3	C	340,-	965-217	77,-	963-128	88,-
EWJ 6000-1M	6000	0,1	1	5	± 0,3	C	350,-	965-217	77,-	963-128	88,-

Price reduction



All-rounder e.g. as precision balance in the laboratory or in harsh industrial applications

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 - 573 is a reliable partner for day-to-day work in the laboratory
- **The robust version**, typical industrial functions, such as piece-counting, vibrationfree weighing and the large weighing ranges also make these balances ideal for all industrial applications, where a high level of precision is required

- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **The robust aluminium diecast housing** maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space $\varnothing \times H$ 157×43 mm
- **Loop and hook for underfloor weighing**, standard for models with [d] ≥ 0,01 g
- **Protective working cover** included with delivery

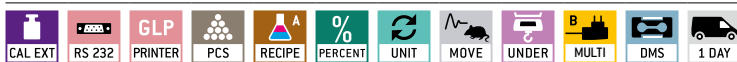
Technical data

- Large backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel
 - A** \varnothing 106 mm
 - B** \varnothing 150 mm
 - C** W×D 160×200 mm
- Overall dimensions W×D×H 180×310×85 mm
- Permissible ambient temperature 10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN 572-A02S05, **€ 40,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Loop for underfloor weighing**, for models with $d \geq 0,01$ g KERN 572-A03, **€ 25,-**
- **1 Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, for models with weighing plate size **A**, KERN 572-A05, **€ 230,-**

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Price € excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
							DKD KERN	€
572-30	240	0,001	0,001	± 0,003	A	520,-	963-127	72,-
572-31	300	0,001	0,002	± 0,005	A	530,-	963-127	72,-
572-32	420	0,001	0,002	± 0,005	A	540,-	963-127	72,-
573-34	650	0,01	0,01	± 0,03	B	480,-	963-127	72,-
572-33	1600	0,01	0,01	± 0,03	B	490,-	963-127	72,-
572-35	2400	0,01	0,01	± 0,03	B	500,-	963-127	72,-
572-37	3000	0,01	0,02	± 0,05	B	510,-	963-127	72,-
572-39	4200	0,01	0,02	± 0,05	B	520,-	963-127	72,-
572-45	12000	0,05	0,05	± 0,15	C	490,-	963-128	88,-
572-55	20000	0,05	0,1	± 0,25	C	520,-	963-128	88,-
573-46	6500	0,1	0,1	± 0,3	C	470,-	963-128	88,-
572-43	10000	0,1	0,1	± 0,3	C	480,-	963-128	88,-
572-49	16000	0,1	0,1	± 0,3	C	490,-	963-128	88,-
572-57	24000	0,1	0,1	± 0,3	C	500,-	963-128	88,-

03



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

Features

- **A** KERN PLJ 2000-3A: **High-quality milligram balance with enormous weighing range up to 2100 g** – ideal for large samples or heavy tare containers
- **Ergonomically optimised keypad** for left and righthanded users
- KERN PLJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use

- Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- KERN PLS: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see *Test weights*
- **Draught shield** standard for models with weighing plate size **B**, weighing space $\varnothing \times H$ 60×150 mm
- **Protective working cover** included with delivery

Technical data

- Backlit LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
 - A** \varnothing 80 mm
 - B** \varnothing 110 mm
 - C** \varnothing 160 mm, see larger picture
 - D** W×D 200×175 mm
- **1** KERN PLS/PLJ-F: Strain gauge
- **2** KERN PLS/PLJ-A: Force compensation
- Permissible ambient temperature
 KERN PLS, PLJ: 5 °C/35 °C
 KERN PLJ-M: 15 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PLJ-A01S05, **€ 40,-**
- **3 Hook for underfloor weighing**, KERN PLJ-A02, **€ 30,-**
- **Set for density determination** of liquids and solids with density $\leq/\geq 1$ for models with [d] = 0,001 g, KERN ALT-A02, **€ 830,-** [d] = 0,01 g, KERN PLT-A01, **€ 830,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

PLJ	PLS											

OPTION

+3 DAYS	+3 DAYS

PLJ-M

Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option			
									Verification		DAkkS Calibr. Certificate	
KERN										€		€
PLS 420-3F	420	0,001	-	-	± 0,004	B	BA	590,-	-	-	963-127	72,-
PLS 720-3A ³	720	0,001	-	-	± 0,002	B	BC	840,- [↓]	-	-	963-127	72,-
PLS 1200-3A ³	1200	0,001	-	-	± 0,003	B	BC	870,-	-	-	963-127	72,-
PLS 4200-2F ³	4200	0,01	-	-	± 0,04	C	BA	590,-	-	-	963-127	72,-
PLS 6200-2A ³	6200	0,01	-	-	± 0,03	C	BC	870,-	-	-	963-128	88,-
PLS 8000-2A ³	8200	0,01	-	-	± 0,04	C	BC	1050,-	-	-	963-128	88,-
PLS 20000-1F ³	20000	0,1	-	-	± 0,4	D	BA	570,- [↓]	-	-	963-128	88,-
PLJ 420-3F	420	0,001	-	-	± 0,003	B	BA	700,-	-	-	963-127	72,-
PLJ 720-3A ³	720	0,001	-	-	± 0,002	B	CC	980,- [↓]	-	-	963-127	72,-
PLJ 1200-3A ³	1200	0,001	-	-	± 0,003	B	CC	1000,- [↓]	-	-	963-127	72,-
PLJ 2000-3A ³	2100	0,001	-	-	± 0,004	A	CC	1650,- [↓]	-	-	963-127	72,-
PLJ 3000-2FM*	3100	0,01	-	-	± 0,03	C	BA	630,-	-	-	963-127	72,-
PLJ 4200-2F	4200	0,01	-	-	± 0,04	C	BA	690,-	-	-	963-127	72,-
PLJ 6200-2A ³	6200	0,01	-	-	± 0,03	C	CC	990,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
PLJ 720-3AM	720	0,001	0,01	0,02	± 0,002	B	CC	990,-	965-216	66,-	963-127	72,-
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,03	C	CC	1000,- [↓]	965-217	77,-	963-128	88,-

¹ * ONLY WHILE STOCKS LAST!

[↓] Price reduction



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

Features

- KERN PNJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- KERN PNS: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **High-quality tuning fork measuring system** for steady weight values and continuous weighing
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Compact size**, practical for small spaces

- **Large, shock proof weighing plate made of stainless steel**
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 172×171×160 mm, for models with weighing plate size **A**
- **Protective working cover** included with delivery

Technical data

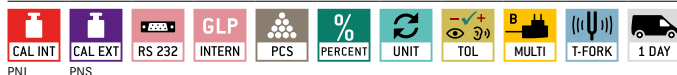
- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
 - A** Ø 140 mm
 - B** W×D 190×190 mm, see larger picture
- Overall dimensions W×D×H, without draught shield
 - A** 202×293×266 mm
 - B** 196×293×89 mm
- Net weight
 - A** approx. 2,2 kg
 - B** approx. 2,6 kg

- Permissible ambient temperature 5 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PNJ-A01S05, **€ 40,-**
- **RS-232/Bluetooth adapter** to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02, **€ 220,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 750,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **1 Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05, **€ 40,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Price € excl. of VAT ex works €	Option			
								Verification		DAkKS Calibr. Certificate	
KERN								M KERN	€	DKD KERN	€
PNS 600-3	620	0,001	-	-	± 0,004	A	620,-	-	-	963-127	72,-
PNS 3000-2	3200	0,01	-	-	± 0,02	B	580,-	-	-	963-127	72,-
PNS 12000-1	12000	0,1	-	-	± 0,2	B	570,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification 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.											
PNJ 600-3M	620	0,001	0,01	0,02	± 0,004	A	730,-	965-216	66,-	963-127	72,-
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	B	705,-	965-216	66,-	963-127	72,-
PNJ 12000-1M	12000	0,1	1	5	± 0,2	B	705,-	965-217	77,-	963-128	88,-

Price reduction

03



The classic balance with robust tuning fork measuring system

Features

- **1** KERN EG-N: **Automatic internal adjustment** in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN EW-N: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Stable temperature behaviour**
- **Short stabilisation time**
- **Shock proof construction**
- **High corner load performance**
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **GLP/ISO record keeping** of weight values
- **Totalising** of pieces when counting

- **Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 158×130×78 mm
- **Protective working cover** included with delivery

Technical data

- Large LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
 - A** Ø 118 mm, see larger picture
 - B** W×D 170×140 mm
 - C** W×D 180×160 mm
- Overall dimensions W×D×H, without draught shield
 - A, B** 182×235×75 mm
 - C** 192×275×87 mm
- Net weight approx. 1,4 kg



• Permissible ambient temperature 10 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
 - A, B** KERN EG-A05S05, € 40,-
 - C** KERN EG-A09S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 32 h without backlight, charging time approx. 12 h, for models with weighing plate size
 - A, B** KERN EG-A04, € 110,-
 - C** KERN EG-A06, € 110,-
- **2 Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, for models with weighing plate size **A**, KERN EG-A03, € 235,-
- **Loop for underfloor weighing**, for models with weighing plate size
 - A, B** KERN EG-A07, € 40,-
 - C** KERN EG-A08, € 40,-
- **Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05, € 40,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option				
									Verification		DAkkS Calibr. Certificate		
									M KERN	€	DKD KERN	€	
KERN													
EW 220-3NM	220	0,001	-	-	± 0,002	A	AB	620,-	-	-	963-127	72,-	
EW 420-3NM	420	0,001	-	-	± 0,003	A	AB	690,-	-	-	963-127	72,-	
EW 620-3NM	620	0,001	-	-	± 0,003	A	AB	770,-	-	-	963-127	72,-	
EW 820-2NM	820	0,01	-	-	± 0,01	B	BB	540,-	-	-	963-127	72,-	
EW 2200-2NM	2200	0,01	-	-	± 0,01	C	BB	660,-	-	-	963-127	72,-	
EW 4200-2NM	4200	0,01	-	-	± 0,02	C	BB	760,-	-	-	963-127	72,-	
EW 6200-2NM	6200	0,01	-	-	± 0,03	C	BB	810,-	-	-	963-128	88,-	
EW 12000-1NM	12000	0,1	-	-	± 0,2	C	BB	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	0,02	± 0,002	A	BB	760,-	965-216	66,-	963-127	72,-	
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	A	BB	830,-	965-216	66,-	963-127	72,-	
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	A	BB	930,-	965-201	110,-	963-127	72,-	
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	C	BB	820,-	965-216	66,-	963-127	72,-	
EG 4200-2NM	4200	0,01	0,1	0,5	± 0,02	C	BB	880,-	965-216	66,-	963-127	72,-	

• Price reduction



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

Features

- KERN PBJ: **Automatic internal adjustment** in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN PBS: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Metal housing:** robust and sturdy
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Weighing with tolerance range (checkweighing):** a visual signal helps with portioning, dispensing or grading
- **Totalising** of weights
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- **Automatic data output to the PC/printer** each time the balance is steady

- **1 Draught shield** standard for models with [d] = 0,001 g, weighing space W×D×H 180×193×87 mm
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel
 - A W×D 108×105 mm
 - B W×D 180×190 mm, see larger picture
- Overall dimensions W×D×H 209×322×78 mm (without draught shield)
- Net weight approx. 3,2 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
 - A KERN PBS-A01S05, € 40,-
 - B KERN PBS-A02S05, € 40,-
- **2 Set for density determination** of liquids and solids with density ≤/≥ 1, for models with weighing plate size
 - A KERN PBS-A04, € 1600,-
 - B KERN PBS-A03, € 1600,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

3 Single-cell advanced technology:

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

STANDARD



OPTION

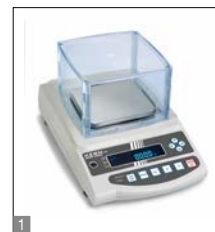


FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option			
									Verification		DAkks Calibr. Certificate	
KERN							QUALITY		M KERN	€	DKD KERN	€
PBS 620-3M	620	0,001	-	-	± 0,002	A	BC	1370,-	-	-	963-127	72,-
PBS 4200-2M	4200	0,01	-	-	± 0,02	B	BC	1160,-	-	-	963-127	72,-
PBS 6200-2M	6200	0,01	-	-	± 0,02	B	BC	1390,-	-	-	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	± 0,002	A	BC	1610,-	965-201 (I)	110,-	963-127	72,-
PBJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	CC	1430,-	965-216 (II)	66,-	963-127	72,-
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	B	CC	1730,-	965-202 (I)	110,-	963-128	88,-
PBJ 8200-1M	8200	0,1	1	5	± 0,2	B	CC	1420,-	965-217 (II)	77,-	963-128	88,-

03



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

Features

- KERN PEJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN PES: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Metal housing**: robust and sturdy
- **Weighing with tolerance range (checkweighing)**: Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- **1 Draught shield** standard for models with [d] = 0,001 g, weighing space W×D×H 170×150×100 mm

- **Underfloor weighing**: load support with loop on the underside of the balance (standard with 2), hook not included with the delivery
- **Protective working cover** included with delivery

Technical data

- Fluorescent display, bright with high contrast, digit height 14 mm
- Dimensions weighing surface, stainless steel **A** W×D 140×120 mm, **B** W×D 200×200 mm, see larger picture, **C** W×D 250×220 mm
- Overall dimensions W×D×H, without draught shield **A** 220×330×90 mm, **B** 220×339×80 mm **C** 260×330×113 mm
- Permissible ambient temperature 10 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PES-A04S05, **€ 40,-**
- KERN PES: **Rechargeable battery pack internal**, operating time up to 32 h, without backlight, charging time approx. 15 h, KERN PES-A01, **€ 610,-**
- **Relay output** with 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, **€ 480,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **Loop for underfloor weighing**, KERN PES-A03, **€ 40,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

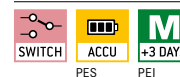
STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option			
									Verification		DAkKS Calibr. Certificate	
KERN							QUALITY		M KERN	€	DKD KERN	€
PES 620-3M 2	620	0,001	-	-	± 0,003	A	BB	1280,-	-	-	963-127	72,-
PES 2200-2M	2200	0,01	-	-	± 0,02	B	BB	840,-	-	-	963-127	72,-
PES 4200-2M	4200	0,01	-	-	± 0,02	B	BB	1000,-	-	-	963-127	72,-
PES 6200-2M	6200	0,01	-	-	± 0,03	B	BB	1240,-	-	-	963-128	88,-
PES 15000-1M	15000	0,1	-	-	± 0,2	B	BB	1190,-	-	-	963-128	88,-
PES 31000-1M 2	31000	0,1	-	-	± 0,4	C	CB	2050,-	-	-	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.												
PEJ 620-3M 2	620	0,001	0,01	0,1	± 0,003	A	BB	1480,-	965-201 (U)	110,-	963-127	72,-
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02	B	CB	1060,-	965-216 (U)	66,-	963-127	72,-
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	CB	1230,-	965-216 (U)	66,-	963-127	72,-

TIPS FROM THE EXPERTS

As well as our balances and test services, we can offer you an extensive range of medical balances, measuring and testing technology as well as microscopes and refractometers.

We will offer you reliable quality at fair prices and with the shortest delivery times. Our product specialists will give you professional advice, will work with you to find the right product and will provide comprehensive support after the purchase too. This ensures a high level of investment security and a good feeling – KERN, the nice balance manufacturer from the wilds of Southern Germany.

For all details on our ranges, please see www.kern-sohn.com or request your own personal catalogues right now: Telephone +49 [0]7433 9933-0



#1 “No compromises with optical devices”

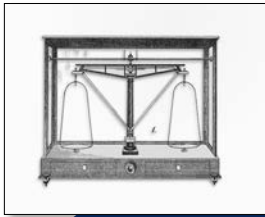
KERN offer you a complete, carefully-designed range of biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers which are high-quality and highly-competitive in terms of price. Browse and find products in the **KERN 2018 catalogue for microscopes and refractometers**.



*Daniel Junger,
Head of Product Management
Optical devices*

Tradition and innovation for more than 170 years

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



1844

KERN is founded – precision balances are produced



1863

A proud Gottlieb Kern with his staff



1880

Pharmaceutical balance with Aesculap



1923

Inflation – KERN wages are paid with self printed currency



1980

The electronic balance ousts mechanical devices



1994

Accredited DKD laboratory (ISO 17025)



2000

New premises in Balingen



2002

Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards



2007

Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)



2008

Authorisation for initial verification by the manufacturer (2009/23/EU)



2009

Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)



2012

Verification point for non-automatic balances and test weights.

New customer portal www.kern-sohn.com goes live



2014

Expansion of the product range to include optical instruments (microscopes and refractometers)



2015

Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse



2017

Come with KERN into the digital future: Expansion of the model ranges compatible with Industry 4.0, as well as the related services

KERN & SOHN GmbH
Balances, Test weights,
DAkKS Calibration laboratory
Ziegelei 1
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