

PRECISION BALANCES






































PROFESSIONAL MEASURING

2021



KERN Pictograms

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 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	 Battery operation: Ready for battery operation. The battery type is specified for each device
 Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required	 GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	 Rechargeable battery pack: Rechargeable set
 Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone. For details see page 131	 GLP/ISO log: With weight, date and time. Only with KERN printers, see page 170–172	 Universal mains adapter: with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, USA C) EU, CH, GB, USA, AUS
 Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 GLP/ISO log: With weight, date and time. Only with KERN printers, see page 170–172	 Mains adapter: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
 Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 223	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 Data interface RS-232: To connect the balance to a printer, PC or network	 Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 Weighing principle: Strain gauges Electrical resistor on an elastic deforming body
 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 B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate
 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: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings
 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: Single cell technology: Advanced version of the force compensation principle with the highest level of precision
 WiFi 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	 Verification possible: The time required for verification is specified in the pictogram
 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	 DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram
 Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	 Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 Factory calibration (ISO): The time required for Factory calibration is shown in days in the pictogram
 Interface for second balance: For direct connection of a second balance	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see page 58	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram
 Network interface: For connecting the scale to an Ethernet network	 Suspended weighing: Load support with hook on the underside of the balance	 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, 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 175 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/EWG

versatile

- One-stop shopping: from pocket balances through to 12 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
+49 7433 9933-0



Service hotline
+49 7433 9933-199



Calibration hotline
+49 7433 9933-196



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



Online Shop
www.kern-sohn.com



E-mail order
info@kern-sohn.com



Fax order
+49 7433 9933-146



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.

03





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

						★★★★
						★★
						★
						
	► Page 16	► P. 17	► P. 18	► P. 19		



from €
340,-

KERN EWJ

Page 29

- Easy to use
- Automatic internal adjustment
- Capacity display
- USB interface (not EWJ-SM)

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 usually 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.

See *school balances*

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

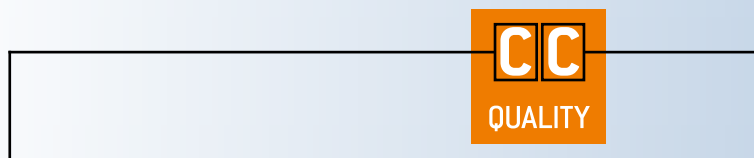
offer you all the tools you would need for effective and accurate work in your laboratory environment. All important laboratory functions such as a recipe weighing function or data interfaces are on board at all times. But above all, the high-quality measuring principles of these balances such as force 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 (KERN EasyTouch). With its touchscreen technology (KERN EasyTouch) a premium laboratory balance its 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 authorities 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

How quickly and sensitively weighing results are displayed? This 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 KERN segment specialists who will be happy to help you.

Quick-Finder Precision balances

Readability [d] g	Weighing capacity [Max] g	Model KERN	Price excl. of VAT ex works €	Page	Quality code QUALITY										
						For an explanation on the pictos, see front flap									
0,01	4200	PLJ 4200-2F	690,-	31	BA	1			●		●	●	●		
0,01	4200	EW 4200-2NM	760,-	33	BB	1					●	●	●		
0,01	4200	EG 4200-2NM	880,-	33	BB	1	○	●		●	●	●		○	
0,01	4200	PBS 4200-2M	1160,-	34	BC	1			●	●	●	●			
0,01	4200	PBJ 4200-2M	1430,-	34	BC	1	○	●		●	●	●			
0,01	4200	PES 4200-2M	1000,-	35	BB	1			●	●	●	●		○	
0,01	4200	PEJ 4200-2M	1230,-	35	CB	1	○	●		●	●	●		○	
0,01	6200	PLS 6200-2A	860,-	31	BC	1			●	●	●	●			
0,01	6200	PLJ 6200-2A	980,-	31	CC	1			●	●	●	●			
0,01	6200	PLJ 6200-2AM	980,-	31	CC	1	○	●		●	●	●			
0,01	6200	EW 6200-2NM	810,-	33	BB	1				●	●	●		○	
0,01	6200	PBS 6200-2M	1390,-	34	BC	1			●	●	●	●			
0,01	6200	PBJ 6200-2M	1730,-	34	CC	1	○		●	●	●	●			
0,01	6200	PES 6200-2M	1240,-	35	BB	1			●	●	●	●		○	
0,01	8200	PLS 8000-2A	1040,-	31	BC	1			●	●	●	●			
0,05	6000	PFB 6000-2	250,-	27	BA	1			●	●	●	●			
0,05	10000	KB 10K0.05N	280,-	28	BA	1			●	●	●	●		○	
0,05	12000	572-45	500,-	30	BA	1			●	●	●	●		○	
0,05	20000	572-55	530,-	30	BA	1			●	●	●	●		○	
0,1	400	440-43N	215,-	26	AA	1			●	●	●	●	●	○	
0,1	1000	PCB 1000-1	185,-	25	AA	1			●	●	●	●	●	○	
0,1	1000	440-45N	245,-	26	AA	1			●	●	●	●	●	○	
0,1	2000	PCB 2000-1	215,-	25	AA	1			●	●	●	●	●	○	
0,1	2000	440-47N	270,-	26	AA	1			●	●	●	●	●	○	
0,1	4000	440-49N	330,-	26	AA	1			●	●	●	●	●	○	
0,1	6000	PCD 6K-4	260,-	24	BA	1			●	●	●	●	●	○	
0,1	6000	PCB 6000-1	240,-	25	BA	1			●	●	●	●	●	○	
0,1	6000	440-49A	365,-	26	AA	1			●	●	●	●	●	○	
0,1	6000	PFB 6000-1	225,-	27	BA	1			●	●	●	●	●		
0,1	6000	EWJ 6000-1SM	340,-	29	BA	1	○	●		●	●	●		○	
0,1	6000	EWJ 6000-1M	350,-	29	BA	1	○	●		●	●	●		○	
0,1	6500	KB 6500-1N	260,-	28	BA	1			●	●	●	●		○	
0,1	6500	573-46	530,-	30	BA	1			●	●	●	●		○	
0,1	8200	PBJ 8200-1M	1420,-	34	BC	1	○	●		●	●	●	●		
0,1	10000	PCD 10K0.1	240,-	24	BA	1			●	●	●	●	●	○	
0,1	10000	PCB 10000-1	245,-	25	BA	1			●	●	●	●	●	○	
0,1	10000	KB 10000-1N	270,-	28	BA	1			●	●	●	●	●	○	
0,1	10000	572-43	490,-	30	BA	1			●	●	●	●	●	○	
0,1	12000	PNS 12000-1	570,-	32	BB	1			●	●	●	●	●		
0,1	12000	PNJ 12000-1M	705,-	32	BB	1	○	●		●	●	●	●		
0,1	12000	EW 12000-1NM	630,-	33	BB	1			●	●	●	●	●	○	
0,1	15000	PES 15000-1M	1190,-	35	BB	1			●	●	●	●	●	○	
0,1	16000	572-49	500,-	30	BA	1			●	●	●	●	●	○	
0,1	20000	PLS 20000-1F	570,-	31	BA	1			●	●	●	●	●		
0,1	24000	572-57	500,-	30	BA	1			●	●	●	●	●	○	
0,1	31000	PES 31000-1M	2090,-	35	CB	1			●	●	●	●	●	○	
1	4000	440-51N	160,-	26	AA	1			●	●	●	●	●	○	
1	6000	PCB 6000-0	185,-	25	BA	1			●	●	●	●	●	○	
1	6000	440-53N	210,-	26	AA	1			●	●	●	●	●	○	
1	10000	PCD 10K-3	190,-	24	BA	1			●	●	●	●	●	○	

● = standard

○ = option



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 , see larger picture
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B** Stainless Steel
- Dimensions of display device W×D×H 165×280×141 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Overall dimensions W×D×H, without draught shield 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, **€ 50,-**
- **2** Stand to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, **€ 50,-**
- Internal rechargeable battery pack, operating time up to 24 h without backlight, charging time approx. 10 h, KERN PCD-A04, **€ 50,-**
- **3** Foot switch, ideal when the application requires two free hands. TARE or PRINT function can be selected. Scope of delivery: foot switch, junction box, connection cable. For the PRINT function you will need the RS-232 interface cable, KERN YKF-01, **€ 85,-**
- 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 and YKE-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option	
								DAkKS KERN	DAkKS Calibr. Certificate €
KERN PCD 250-3	250	0,001	0,002	± 0,005	A	AA	305,-	963-127	78,-
KERN PCD 300-3	350	0,001	0,002	± 0,005	A	AA	350,-	963-127	78,-
KERN PCD 2500-2	2500	0,01	0,02	± 0,05	B	BA	295,-	963-127	78,-
KERN PCD 3000-2	3500	0,01	0,02	± 0,05	B	BA	350,-	963-127	78,-
KERN PCD 6K-4	6000	0,1	0,1	± 0,3	B	BA	260,-	963-128	94,-
KERN PCD 10K0.1	10000	0,1	0,1	± 0,3	B	BA	240,-	963-128	94,-
KERN PCD 10K-3	10000	1	1	± 3	B	BA	190,-	963-128	94,-



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

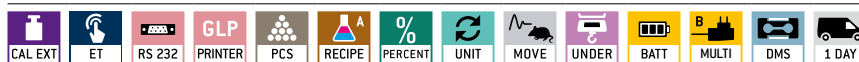
Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions of 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 in scope of delivery, 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,-
- Internal rechargeable battery pack, 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 capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option	
								DAKKS KERN	DAKKS Calibr. Certificate €
KERN PCB 100-3	100	0,001	0,001	± 0,003	A	AA	265,-	963-127	78,-
PCB 250-3	250	0,001	0,001	± 0,005	A	AA	290,-	963-127	78,-
PCB 350-3	350	0,001	0,002	± 0,005	A	AA	300,-	963-127	78,-
PCB 200-2	200	0,01	0,01	± 0,02	B	AA	230,-	963-127	78,-
PCB 1000-2	1000	0,01	0,01	± 0,03	C	AA	280,-	963-127	78,-
PCB 2500-2	2500	0,01	0,01	± 0,05	C	BA	290,-	963-127	78,-
PCB 3500-2	3500	0,01	0,02	± 0,05	C	AA	300,-	963-127	78,-
PCB 1000-1	1000	0,1	0,1	± 0,2	C	AA	185,-	963-127	78,-
PCB 2000-1	2000	0,1	0,1	± 0,2	C	AA	215,-	963-127	78,-
PCB 6000-1	6000	0,1	0,1	± 0,3	D	BA	240,-	963-128	94,-
PCB 10000-1	10000	0,1	0,1	± 0,3	D	BA	245,-	963-128	94,-
PCB 6000-0	6000	1	1	± 2	D	BA	185,-	963-128	94,-



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

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface
 - A** ϕ 81 mm
 - B** ϕ 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 (without draught shield) W×D×H 165×230×80 mm
- Optional battery operation, 9 V block, standard, 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,-
- Internal rechargeable battery pack, 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 capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option	
							DAKkS KERN	Certificate €
440-21A	60	0,001	0,001	± 0,003	A	350,-	963-127	78,-
440-33N	200	0,01	0,01	± 0,02	B	290,-	963-127	78,-
440-35N	400	0,01	0,01	± 0,03	B	330,-	963-127	78,-
440-35A	600	0,01	0,01	± 0,03	B	365,-	963-127	78,-
440-43N	400	0,1	0,1	± 0,2	C	215,-	963-127	78,-
440-45N	1000	0,1	0,1	± 0,2	C	245,-	963-127	78,-
440-47N	2000	0,1	0,1	± 0,2	C	270,-	963-127	78,-
440-49N	4000	0,1	0,1	± 0,3	D	330,-	963-127	78,-
440-49A	6000	0,1	0,1	± 0,3	D	365,-	963-128	94,-
440-51N	4000	1	1	± 2	D	160,-	963-127	78,-
440-53N	6000	1	1	± 2	D	210,-	963-128	94,-



03

Quick-display precision balance with user-friendly concept of operation mode – now with larger housing for more stability

Features

- Easy to use: All primary functions have their own key on the keypad
- Compact size, practical for small spaces
- Capacity display: A bargraph display 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

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 210×315×90 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 PFB-A12S05, **€ 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*

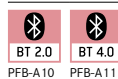
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option	
							DAkkS KERN	DAkkS Calibr. Certificate €
PFB 120-3	120	0,001	0,001	± 0,003	A	280,-	963-127	78,-
PFB 200-3	200	0,001	0,002	± 0,005	A	295,-	963-127	78,-
PFB 300-3	300	0,001	0,002	± 0,005	A	320,-	963-127	78,-
PFB 600-2	600	0,01	0,01	± 0,03	B	245,-	963-127	78,-
PFB 1200-2	1200	0,01	0,01	± 0,03	B	245,-	963-127	78,-
PFB 2000-2	2000	0,01	0,02	± 0,05	B	260,-	963-127	78,-
PFB 3000-2	3000	0,01	0,02	± 0,05	B	285,-	963-127	78,-
PFB 6000-2	6000	0,05	0,05	± 0,15	C	250,-	963-128	94,-
PFB 6000-1	6000	0,1	0,1	± 0,3	C	225,-	963-128	94,-



03

Compact precision balance with large weighing capacity

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
- Model with resolution > 240,000 Pt.: Level indicator to level the balance precisely
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 9 mm
- Dimensions of 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 1,00 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,-
- Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, € 50,-
- **1** Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, € 160,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT RS 232 GLP PRINTER PCS RECIPE PERCENT UNIT MOVE UNDER MULTI DMS 1 DAY

OPTION

ACCU DAKkS +3 DAYS

Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price excl. of VAT ex works €	Option	
								DAKkS Calibr. KERN	Certificate €
KERN KB 120-3N	120	0,001	0,001	± 0,003	A	AA	290,-	963-127	78,-
KB 240-3N	240	0,001	0,001	± 0,003	A	AA	300,-	963-127	78,-
KB 360-3N	360	0,001	0,002	± 0,005	A	AA	310,-	963-127	78,-
KB 650-2N	650	0,01	0,01	± 0,03	B	BA	270,-	963-127	78,-
KB 1200-2N	1200	0,01	0,01	± 0,03	B	BA	280,-	963-127	78,-
KB 2000-2N	2000	0,01	0,01	± 0,03	B	BA	280,-	963-127	78,-
KB 2400-2N	2400	0,01	0,01	± 0,03	B	BA	290,-	963-127	78,-
KB 3600-2N	3600	0,01	0,02	± 0,05	B	BA	310,-	963-127	78,-
KB 10K0.05N	10000	0,05	0,05	± 0,15	C	BA	280,-	963-128	94,-
KB 6500-1N	6500	0,1	0,1	± 0,3	C	BA	260,-	963-128	94,-
KB 10000-1N	10000	0,1	0,1	± 0,3	C	BA	270,-	963-128	94,-



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 bargraph display lights up to show how much of the weighing range is still available
- KERN EWJ-H/-M: USB data interface for transferring weighing data to the PC, printer etc. Can only be used in combination with KERN KERN DBS-A02 accessories
- KERN EWJ-SM: Cost-effective variant without data interfaces
- Draught shield standard on models with [Max] 600 g, weighing space W×D×H 134×128×80 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 155×175×217 mm
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface
 - A** Ø 80 mm
 - B** Ø 120 mm, see larger picture
 - C** W×D 155×145 mm
- Overall dimensions W×D×H
 - 220×315×90 mm (without draught shield)
 - 220×340×321 mm (incl. 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,-**
- Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 12 h, KERN KFB-A01, **€ 35,-**
- KERN EWJ-H/-M: Scope of delivery: USB cable, driver, Software BalanceConnection, USB interface kit for bi-directional data exchange between balance/moisture analyzer and computer. KERN DBS-A02, **€ 290,-**
- RS-232/WiFi adapter for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 690,-**
- 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



Model	Weighing capacity [Max] g	Readability [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	
								M KERN	€	DAkkS KERN	€
EWJ 300-3	300	0,001	-	-	± 0,005	A	450,-	-	-	963-127	78,-
EWJ 300-3H	300	0,001	-	-	± 0,005	A	490,-	-	-	963-127	78,-
EWJ 3000-2	3000	0,01	-	-	± 0,05	B	430,-	-	-	963-127	78,-
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	70,-	963-127	78,-
EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	B	360,-	965-216	70,-	963-127	78,-
EWJ 6000-1SM	6000	0,1	1	5	± 0,3	C	340,-	965-217	82,-	963-128	94,-
EWJ 6000-1M	6000	0,1	1	5	± 0,3	C	350,-	965-217	82,-	963-128	94,-



03

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 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
- Model with resolution > 240,000 Pt.: Level indicator to level the balance precisely
- Loop for underfloor weighing, standard for models with [d] ≥ 0,01 g
- Protective working cover included with delivery

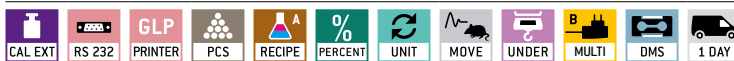
Technical data

- 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, see larger picture
- Net weight **A**, **B** approx. 2,4 kg **C** approx. 2,8 kg
- 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, **€ 160,-**
- Loop and hook for underfloor weighing, for models with [d] ≥ {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 capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Resolution Points	Weighing plate	Price excl. of VAT ex works €	Option	
								DAkKS	DAkKS Calibr. Certificate
KERN								DAKKS	€
572-30	240	0,001	0,001	± 0,003	240.000	A	520,-	963-127	78,-
572-31	300	0,001	0,002	± 0,005	300.000	A	530,-	963-127	78,-
572-32	420	0,001	0,002	± 0,005	420.000	A	540,-	963-127	78,-
573-34	650	0,01	0,01	± 0,03	65.000	B	530,-	963-127	78,-
572-33	1600	0,01	0,01	± 0,03	160.000	B	490,-	963-127	78,-
572-35	2400	0,01	0,01	± 0,03	240.000	B	500,-	963-127	78,-
572-37	3000	0,01	0,02	± 0,05	300.000	B	510,-	963-127	78,-
572-39	4200	0,01	0,02	± 0,05	420.000	B	520,-	963-127	78,-
572-45	12000	0,05	0,05	± 0,15	240.000	C	500,-	963-128	94,-
572-55	20000	0,05	0,1	± 0,25	400.000	C	530,-	963-128	94,-
573-46	6500	0,1	0,1	± 0,3	65.000	C	530,-	963-128	94,-
572-43	10000	0,1	0,1	± 0,3	100.000	C	490,-	963-128	94,-
572-49	16000	0,1	0,1	± 0,3	160.000	C	500,-	963-128	94,-
572-57	24000	0,1	0,1	± 0,3	240.000	C	500,-	963-128	94,-

FACE
LIFT



03

High-quality precision scale with comfortable graphic display and enormous weighing range

Features

- Rapid and efficient operation thanks to the graphics display
- **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
- Simple, clear user interface on the display in the following languages: German, English, French, Italian, Spanish, Portuguese
- **2** KERN PLJ 2000-3A: High-quality milligram balance with enormous weighing range up to 2100 g - ideal for large samples or heavy tare containers

- 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
- Dosage aid: high stability mode and other filter settings can be selected
- Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
- Draught shield standard for models with weighing plate size **A**, weighing space $\phi \times H$ 150×60 mm
- Protective working cover included with delivery

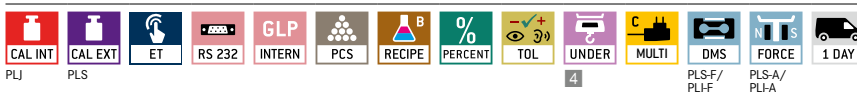
Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface, stainless steel
A ϕ 110 mm
B ϕ 160 mm, see larger picture
C W×D 200×175 mm
- Permissible ambient temperature
 KERN PLS, PLJ: 5 °C/35 °C, 35 °C
 KERN PLJ-M: 15 °C/30 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN PLJ-A01S05, **€ 40,-**
- **4** Hook for underfloor weighing, KERN PLJ-A02, **€ 30,-**
- Set for density determination of liquids and solids with density > 1 for models with [d] = 0,001 g, KERN ALT-A02, **€ 830,-**

STANDARD



OPTION



Model	Weighing capacity [Max] g	Readability [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	€	DAkkS KERN	€
PLS 420-3F	420	0,001	-	-	± 0,004	A	BA	590,-	-	-	963-127	78,-
PLS 720-3A	720	0,001	-	-	± 0,002	A	BC	840,-	-	-	963-103	130,-
PLS 1200-3A	1200	0,001	-	-	± 0,003	A	BC	880,-	-	-	963-103	130,-
PLS 4200-2F	4200	0,01	-	-	± 0,04	B	BA	590,-	-	-	963-127	78,-
PLS 6200-2A	6200	0,01	-	-	± 0,03	B	BC	860,-	-	-	963-104	148,-
PLS 8000-2A	8200	0,01	-	-	± 0,04	B	BC	1040,-	-	-	963-104	148,-
PLS 20000-1F	20000	0,1	-	-	± 0,4	C	BA	570,-	-	-	963-128	94,-
PLJ 420-3F	420	0,001	-	-	± 0,003	A	BA	700,-	-	-	963-127	78,-
PLJ 720-3A	720	0,001	-	-	± 0,002	A	BC	980,-	-	-	963-103	130,-
PLJ 1200-3A	1200	0,001	-	-	± 0,003	A	BC	1000,-	-	-	963-103	130,-
PLJ 2000-3A	2100	0,001	-	-	± 0,004	A	CC	1650,-	-	-	963-103	130,-
PLJ 4200-2F	4200	0,01	-	-	± 0,04	B	BA	690,-	-	-	963-127	78,-
PLJ 6200-2A	6200	0,01	-	-	± 0,03	B	CC	980,-	-	-	963-104	148,-
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	A	BC	980,-	965-216	70,-	963-103	130,-
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,03	B	CC	980,-	965-217	82,-	963-104	148,-



03



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 bargraph display 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

- **3** 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 **A** 196×293×266 mm **B** 196×293×89 mm
- Net weight **A** approx. 2,2 kg **B** approx. 2,8 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, **€ 310,-**
- RS-232/WiFi adapter for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 690,-**
- 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 123×72×15 mm, KERN AEJ-A05, **€ 40,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD										OPTION		FACTORY	
PNJ	PNS		PNJ								+3 DAYS		PNJ

Model	Weighing capacity [Max] g	Readability [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									€	DAKKS KERN	€
PNS 600-3	620	0,001	-	-	± 0,004	A	620,-	-	-	963-103	130,-
PNS 3000-2	3200	0,01	-	-	± 0,02	B	580,-	-	-	963-127	78,-
PNS 12000-1	12000	0,1	-	-	± 0,2	B	570,-	-	-	963-128	94,-
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.											
PNJ 600-3M	620	0,001	0,01	0,02	± 0,004	A	740,-	965-216	70,-	963-103	130,-
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	B	705,-	965-216	70,-	963-127	78,-
PNJ 12000-1M	12000	0,1	1	5	± 0,2	B	705,-	965-217	82,-	963-128	94,-



The classic balance with robust tuning fork measuring system

Features

- **1** KERN EG-N: 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
- 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

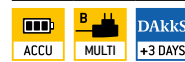
Accessories

- 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,-**
- Internal rechargeable battery pack, 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,-**
Note: If the rechargeable battery pack is retrofitted to a verified balance, it must be recalibrated
- **2** Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 158×130×78 mm, for models with weighing plate size **A**, KERN EG-A03, **€ 250,-**
- 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 capacity [Max] g	Readability [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									M KERN	€	DAkkS KERN	€
EW 220-3NM	220	0,001	-	-	± 0,002	A	AB	620,-	-	-	963-127	78,-
EW 420-3NM	420	0,001	-	-	± 0,003	A	AB	690,-	-	-	963-127	78,-
EW 620-3NM	620	0,001	-	-	± 0,003	A	AB	770,-	-	-	963-103	130,-
EW 820-2NM	820	0,01	-	-	± 0,01	B	BB	540,-	-	-	963-127	78,-
EW 2200-2NM	2200	0,01	-	-	± 0,01	C	BB	660,-	-	-	963-127	78,-
EW 4200-2NM	4200	0,01	-	-	± 0,02	C	BB	760,-	-	-	963-127	78,-
EW 6200-2NM	6200	0,01	-	-	± 0,03	C	BB	810,-	-	-	963-104	148,-
EW 12000-1NM	12000	0,1	-	-	± 0,2	C	BB	630,-	-	-	963-128	94,-
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 (U)	70,-	963-127	78,-
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	A	BB	830,-	965-216 (U)	70,-	963-127	78,-
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	A	BB	930,-	965-201 (U)	120,-	963-103	130,-
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	C	BB	800,-	965-216 (U)	70,-	963-127	78,-
EG 4200-2NM	4200	0,01	0,1	0,5	± 0,02	C	BB	880,-	965-216 (U)	70,-	963-127	78,-



03



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

Features

- KERN PBJ: 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
- 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 170×180 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

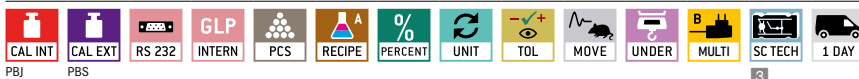
Accessories

- 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, € 1650,-
- 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 s under laboratory conditions
- **Shock proof construction**
- **High corner load performance**

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [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	€	DAkkS KERN	€
PBS 620-3M	620	0,001	-	-	± 0,002	A	BC	1370,-	-	-	963-103	130,-
PBS 4200-2M	4200	0,01	-	-	± 0,02	B	BC	1160,-	-	-	963-127	78,-
PBS 6200-2M	6200	0,01	-	-	± 0,02	B	BC	1390,-	-	-	963-104	148,-
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 (U)	120,-	963-103	130,-
PBJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	CC	1430,-	965-216 (U)	70,-	963-127	78,-
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	B	CC	1730,-	965-202 (U)	120,-	963-104	148,-
PBJ 8200-1M	8200	0,1	1	5	± 0,2	B	CC	1420,-	965-217 (U)	82,-	963-128	94,-



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 hook on the underside of the balance, standard for models with [d] = 0,001 g, hook not included with the delivery
- **A**, **B** Protective working cover included with delivery

Technical data

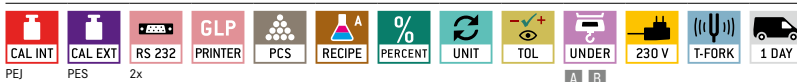
- Fluorescent display, bright with high contrast, digit height 14 mm
- Dimensions weighing surface, Stainless Steel
 - A** W×D 140×120 mm
 - B** W×D 200×200 mm, see larger picture
 - C** W×D 250×220 mm
- Overall dimensions W×D×H, without draught shield
 - A** 220×330×90 mm
 - B** 220×339×80 mm
 - C** 260×330×113 mm

- Net weight approx. **A** 4,0 kg, **B** 4,4 kg, **C** 10 kg
- Permissible ambient temperature 10 °C/30 °C

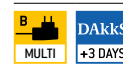
Accessories

- Protective working cover, scope of delivery: 5 items, KERN PES-A04S05, **€ 40,-**
- KERN PES: Internal rechargeable battery pack, operating time up to 32 h, without backlight, charging time approx. 15 h, KERN PES-A01, **€ 610,-**
- Loop for underfloor weighing, for models with weighing plate size **B**, KERN PES-A03, **€ 40,-**
- Relay output to connect relays, signal lamps, valves etc., 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,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

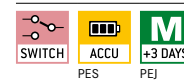
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] [g]	Readability [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								€	€	DAkkS KERN	€	€
PES 620-3M	620	0,001	-	-	± 0,003	A	BB	1220,-	-	-	963-103	130,-
PES 2200-2M	2200	0,01	-	-	± 0,02	B	BB	840,-	-	-	963-127	78,-
PES 4200-2M	4200	0,01	-	-	± 0,02	B	BB	1000,-	-	-	963-127	78,-
PES 6200-2M	6200	0,01	-	-	± 0,03	B	BB	1240,-	-	-	963-104	148,-
PES 15000-1M	15000	0,1	-	-	± 0,2	B	BB	1190,-	-	-	963-128	94,-
PES 31000-1M	31000	0,1	-	-	± 0,4	C	CB	2090,-	-	-	963-128	94,-
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.												
PEJ 620-3M	620	0,001	0,01	0,1	± 0,003	A	BB	1480,-	965-201 (M)	120,-	963-103	130,-
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02	B	CB	1060,-	965-216 (M)	70,-	963-127	78,-
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	CB	1230,-	965-216 (M)	70,-	963-127	78,-

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1769
 Ancestor Johann Jakob Sauter built the Hahn inclination scale out of iron, a foundation stone for weighing for the balance industry in Southern Germany




1844
 KERN is founded – precision balances are produced



1863
 A proud Gottlieb Kern with his staff



1880
 Pharmaceutical balance with Aesculap



1923
 Inflation – KERN wages are paid with self printed currency



1980
 The electronic balance ousts mechanical devices



1994
 Accredited DKD laboratory (ISO 17025)



2000
 New premises in Balingen



2002
 Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards




2007
 Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)




2008
 Authorisation for initial verification by the manufacturer (2009/23/EC)



2009
 Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)



2012
 Verification point for non-automatic balances and test weights.

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




2014
 Expansion of the product range to include optical instruments (microscopes and refractometers)



2015
 Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse



2017
 Come with KERN into the digital future: Expansion of the model ranges compatible with Industry 4.0, as well as the related services



2019
 Significant anniversary year! 25 years of accredited DAkkS/DKD laboratory 175 years of KERN & SOHN 250 years of balance manufacture in the Sauter family-owned company



2020
 Construction of Ziegelei 3.0, extension of administration building