

Precision balances KERN PES · PEJ



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
- **T** 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
- KERN PES: Internal rechargeable battery pack, operating time up to 32 h, without backlight, charging time approx. 15 h, KERN PES-A01
- Loop for underfloor weighing, for models with weighing plate size **B**, KERN PES-A03
- 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
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01
- Further details, plenty of further accessories and suitable printers see *Accessories*

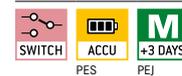
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Option			
								Verification		DAkkS Calibr. Certificate	
								M	KERN	DAkkS	KERN
PES 620-3M	620	0,001	-	-	± 0,003	A	BB	-	-	963-103	
PES 2200-2M	2200	0,01	-	-	± 0,02	B	BB	-	-	963-127	
PES 4200-2M	4200	0,01	-	-	± 0,02	B	BB	-	-	963-127	
PES 6200-2M	6200	0,01	-	-	± 0,03	B	BB	-	-	963-104	
PES 15000-1M	15000	0,1	-	-	± 0,2	B	BB	-	-	963-128	
PES 31000-1M	31000	0,1	-	-	± 0,4	C	CB	-	-	963-128	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
PEJ 620-3M	620	0,001	0,01	0,1	± 0,003	A	BB	965-201	I	963-103	
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02	B	CB	965-216	II	963-127	
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	CB	965-216	II	963-127	

Pictograms

<p>Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)</p>	<p>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</p>	<p>Suspended weighing: Load support with hook on the underside of the balance</p>
<p>Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required</p>	<p>GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection</p>	<p>Battery operation: Ready for battery operation. The battery type is specified for each device</p>
<p>Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone.</p>	<p>GLP/ISO log: With weight, date and time. Only with KERN printers</p>	<p>Rechargeable battery pack: Rechargeable set</p>
<p>Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.</p>	<p>GLP/ISO log: With weight, date and time. Only with KERN printers</p>	<p>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</p>
<p>Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard</p>	<p>Piece counting: Reference quantities selectable. Display can be switched from piece to weight</p>	<p>Mains adapter: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available</p>
<p>Data interface RS-232: To connect the balance to a printer, PC or network</p>	<p>Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out</p>	<p>Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request</p>
<p>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</p>	<p>Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display</p>	<p>Weighing principle: Strain gauges: Electrical resistor on an elastic deforming body</p>
<p>USB data interface: To connect the balance to a printer, PC or other peripherals</p>	<p>Totalising level A: The weights of similar items can be added together and the total can be printed out</p>	<p>Weighing principle: Tuning fork: A resonating body is electromagnetically excited, causing it to oscillate</p>
<p>Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals</p>	<p>Percentage determination: Determining the deviation in % from the target value (100 %)</p>	<p>Weighing principle: Electromagnetic force compensation: Coil inside a permanent magnet. For the most accurate weighings</p>
<p>WiFi data interface: To transfer data from the balance to a printer, PC or other peripherals</p>	<p>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</p>	<p>Weighing principle: Single cell technology: Advanced version of the force compensation principle with the highest level of precision</p>
<p>Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.</p>	<p>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</p>	<p>Verification possible: The time required for verification is specified in the pictogram</p>
<p>Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements</p>	<p>Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value</p>	<p>DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram</p>
<p>Interface for second balance: For direct connection of a second balance</p>	<p>Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram</p>	<p>Factory calibration (ISO): The time required for Factory calibration is shown in days in the pictogram</p>
<p>Network interface: For connecting the scale to an Ethernet network</p>		<p>Package shipment: The time required for internal shipping preparations is shown in days in the pictogram</p>
		<p>Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram</p>

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KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAKkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAKkS calibration laboratory today is one of the most modern and best-equipped DAKkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAKkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DAKkS calibration of balances with a maximum load of up to 50 t
- DAKkS calibration of weights in the range of 1 mg - 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

Your KERN specialist dealer: