

Robust laboratory and industrial precision balance, with EC type approval [M]

Features

- **2** only PEJ: Automatic internal adjustment
- **3** only PES: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see page 133 ff
- Metal housing: robust and sturdy
- Weighing with tolerance range (checkweighing): Input of 2 upper and 2 lower limit values through 4 arrow keys. An audible signal assists with the portion division, dispensing or grading
- **1** Draft shield standard on all models with readout $d = 0,001$ g. weighing space $W \times D \times H$ 170x150x100 mm. Removable metal cover with pipette opening

Technical data

- Fluorescent display bright with high contrast, digit height 13 mm
- Dimensions of weighing plate (stainless steel) $W \times D$
 - A** 140x120 mm
 - B** 200x200 mm, see larger picture
 - C** 250x220 mm
- Overall dimensions (without draft shield) $W \times D \times H$ for models with weighing plate sizes
 - A** 220x333x93 mm
 - B** 220x333x93 mm
 - C** 260x333x110 mm
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- Protective working cover standard, can be reordered (not for KERN PES 31000-1M), KERN PES-A04
- **4** Only PES: Rechargeable battery pack internal, operating time up to 6 h, charging time approx. 15 h (internal charging with mains adapter), must be ordered at purchase, KERN PES-A01
- Relay output with 5 outputs for weighing result in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02
- Suitable printers see page 130

STANDARD



OPTION

































FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Options			
								Verification		DKD Calibr. Certificate	
								M KERN		DKD KERN	
PES 2200-2M	2200	0,01	0,1	0,01	$\pm 0,02$	4	B	-		963-127	
PES 4200-2M	4200	0,01	0,1	0,01	$\pm 0,02$	4	B	-		963-127	
PES 6200-2M	6200	0,01	-	0,01	$\pm 0,03$	4	B	-		963-128	
PES 15000-1M	15000	0,1	1	0,1	$\pm 0,2$	4	B	-		963-128	
PES 31000-1M	31000	0,1	1	0,1	$\pm 0,4$	8,9	C	-		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	0,001	$\pm 0,003$	6	A	965-201	I	963-127	
PEJ 2200-2M	2200	0,01	0,1	0,01	$\pm 0,02$	6	B	965-216	II	963-127	
PEJ 4200-2M	4200	0,01	0,1	0,01	$\pm 0,02$	6	B	965-216	III	963-127	

KERN Pictograms

 CAL INT Internal adjusting (CAL): Quick setting of the balance's accuracy with internal adjusting weight (motordriven).	 CAL EXT Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.	 MEMORY Memory: Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU
 RS 232 Data interface RS-232: To connect the balance to a printer, PC or network	 SWITCH Control outputs (optocoupler, digital I/O) to connect relays, signal lamps, valves, etc.	 DUAL Interface for second balance: for direct connection of a second balance
 LAN Network interface: For connecting the scale to an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.	 GLP PROTOCOL GLP/ISO record keeping: of weighing data with date, time and identification-no. Only with printers from KERN.	 PCS Piece counting: Reference quantities selectable. Display can be switched from piece to weight
 RECIPE Net-total weighing: weight of tare cup and weight of components memorized in two separate stores.	 % PERCENT Percentage determination: Determining the deviation in % from the target value (100%).	 UNIT 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.
 TOL Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.	 MOVE Vibration-free weighing: (Animal weighing program)Vibrations are filtered out so that a stable weight is obtained.	 IP Spray and dust protection IPxx: The type of protection is shown by the pictogram. For details see the glossary.
 INOX Stainless steel: the balance is protected against corrosion.	 UNDER Suspended weighing: load support with hook on the underside of the balance.	 BATT Battery operation: Ready for battery operation. The battery type is specified for each device.
 ACCU Rechargeable battery pack: rechargeable set.	 230 V Mains adapter: 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.	 230 V Power supply: integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.
 DMS Strain gauges: Electrical resistor on an elastic deforming body.	 T-FORK Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.	 FORCE Electromagnetic force compensation: Coil in a permanent magnet. For the most accurate weighings.
 SC TECH Single cell technology: Advanced version of the force compensation principle with the highest level of precision.	 M +3 DAYS Verification possible: The time required for verification is specified in the pictogram.	 DKD +3 DAYS DKD calibration possible: The time required for DKD calibration is shown in days in the pictogram.
 DAYS Package shipment: The time required to manufacture the product internally is shown in days in the pictogram.	 DAYS Pallet shipment: The time required to manufacture the product internally is shown in days in the pictogram.	 3 YEARS WARRANTY Warranty: The warranty period is shown in the pictogram.

Precision is our business

To ensure the high level of precision of your balance, KERN offers the appropriate test weight package for your balance. This consists of the test weight, box and DKD calibration certificate, as proof of its accuracy. The best way to ensure proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, and M3 with weights from 1 mg to 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe. (DKD = German Calibration Service ~ UKAS)

Your KERN specialist dealer:

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MOB.: +386-41-819-607

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

Range of services:

- DKD calibration of balances with a maximum load of up to 6000 kg
- DKD calibration of weights in the range of 1 mg – 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages
D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponding test weight or the calibration service? Your KERN specialist dealer will be pleased to assist you.

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KERN – Professional measuring. Measuring technology and testing services from a single source

