



Robust laboratory and industrial precision balance, with EC-Type Approval [M]

Features

- Metal housing: robust and sturdy
- Weighing with tolerance range (check-weighing): Input of 2 upper and 2 lower limit values through 4 arrow keys. An acoustic signal assists with the portion division, dispensing or grading
- **1** Draft shield standard, Removable metal cover with pipette opening, on all models with readout d = 0,001 g. Weighing space WxDxH 170x150x100 mm
- **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

Options

- 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 approx. 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**
- Label printer, **KERN YKL-01**
- **5** Standard printer, **KERN YKB-01N**
- **6** Statistics printer, **KERN YKT-01**
- **7** Statistics printer, **KERN YKS-01**

Technical data

- Fluorescent display bright with high contrast, digit height 12,5 mm
- Dimensions of weighing plate (stainless steel):
 - A** 140x120 mm
 - B** 200x200 mm, see larger picture
 - C** 250x220 mm
- Overall dimensions (without draft shield) WxDxH for models with weighing plate sizes
 - A** 220x333x93 mm
 - B** 220x333x93 mm
 - C** 260x333x110 mm
- Permissible ambient temperature 10°C / 30°C

! *Only while stocks last

STANDARD										FACTORY		STANDARD		OPTION		FACTORY	
2	3	2 ports		5	6	7						4				+3 DAYS	+7 DAYS
























Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Repro-ducibility g	Linearity g	Net weight approx. kg	Weighing plate	Options			
								Verification		DKD Calibr. Certificate	
								M	KERN	DKD	KERN
PES 220-3M*	220	0,001	0,01	0,001	± 0,002	4	A	950-116	II		963-127
PES 420-3M*	420	0,001	0,01	0,001	± 0,003	4	A	950-116	II		963-127
PES 620-3M	620	0,001	-	0,001	± 0,003	4	A	950-127	-		963-127
PES 2200-2M	2200	0,01	0,1	0,01	± 0,02	4	B	950-116	II		963-127
PES 4200-2M	4200	0,01	0,1	0,01	± 0,02	4	B	950-116	II		963-127
PES 6200-2M	6200	0,01	-	0,01	± 0,03	4	B	950-128	-		963-128
PES 8200-1M	8200	0,1	1	0,1	± 0,2	4	B	950-117	II		963-128
PES 15000-1M	15000	0,1	1	0,1	± 0,2	4	B	950-117	II		963-128
PES 31000-1M	31000	0,1	1	0,1	± 0,4	8,9	C	950-117	II		963-128

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. For the verification at the factory, we need to know the full address of the location of use.

PEJ 420-3M	420	0,001	0,01	0,001	± 0,003	6	A	950-116	II		963-127
PEJ 620-3M	620	0,001	0,01	0,001	± 0,003	6	A	950-101	I		963-101
PEJ 2200-2M	2200	0,01	0,1	0,01	± 0,02	6	B	950-116	II		963-127
PEJ 4200-2M	4200	0,01	0,1	0,01	± 0,02	6	B	950-116	II		963-127

Price reduction

KERN Pictograms

 Internal adjusting (CAL): Quick setting of the balance's accuracy with internal adjusting weight (motordriven).	 Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.	 Weighing units: Can be switched to e.g. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details.
 Rechargeable battery pack: rechargeable set.	 Power supply: integrated in balance. 230V/50Hz in Germany. On request GB or USA version.	 Mains adapter: 230V/50Hz in standard version for Germany. On request GB or USA version.
 Battery operation: The battery type is specified for each device.	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight	 Spray and dust protection IPxx The type of protection is shown by the pictogram. For details see the glossary.
 Data interface: The type of interface is shown by the pictogram. See the glossary for further details.	 GLP/ISO record keeping of weighing data with date, time and identification-no. Only with printers from KERN.	 Tare: put back displayed value to "0" during weighing process, e.g. to add or remove weighing material from a container.
 Animal weighing program: Strong vibrations are filtered out to determine a stable weighing result.	 Stainless steel: the balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.
 Net-total weighing: weight of tare cup and weight of components memorized in two separate stores.	 Suspended weighing: load support with hook on the underside of the balance.	 Verification possible. The time required for verification is specified in the pictogram.
 Percentage determination: Displays the deviation from the reference weight (100%) in % instead of grams.	 Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing/sorting.	 DKD calibration possible. The time required for DKD calibration is specified in the pictogram.
 Package shipment via courier.	 Pallet shipment via freight forwarder.	[DMS] For details on weighing technologies, see the glossary.

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)

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 6 t
- 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.

Your KERN specialist dealer:

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



German Excellence Group
Member