



Features

- 2 only PEJ: Automatic internal adjustment
- 3 only PES: Adjusting program CAL for quick setting of the balance accuracy
- 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 and visual signal assists with the portioing, dispensing or grading
- II Draught shield standard on all models with readout [d] = 0,001 g, weighing space WxDxH 170x150x100 mm. Removable metal cover with pipette opening
- Underfloor weighing: load support with hook on the underside of the balance

Technical data

- Fluorescent display, bright with high contrast, digit height 13 mm
- Weighing plate dimensions, stainless steel, WxD
- A 140x120 mm
- B 200x200 mm, see enlarged picture
- © 250x220 mm
- Overall dimensions (without draught shield) WxDxH
- A 220x330x93 mm
- **B** 220x333x93 mm
- © 260x333x110 mm
- Permissible ambient temperature 10 °C / 30 °C





Accessories

- Protective working cover standard. Can be re-ordered, scope of delivery: 5 items (not for KERN PES 31000-1M), KERN PES-A04S05
- only PES: Rechargeable battery pack internal, operating time up to 6 h, charging time approx. 15 h (internal charging via mains adapter), KERN PES-A01
- Relay output with 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, for details see page 180, KERN YKI-01
- Suitable printers see page 177 ff.







































Model	Weighing	Readout	Verification	Repro-	Linearity	Net weight	Weighing	Options			
	range		value	ducibility		approx.	plate	Verification		DAkkS Calibr. Certificate	
	[Max]	[d]	[e]					M		DKD	
KERN	g	g	g	g	g	kg		KERN		KERN	
PES 620-3M	620	0,001	-	0,001	± 0,003	4	A	-	-	963-127	
PES 2200-2M	2200	0,01	-	0,01	± 0,02	4	В	-	-	963-127	
PES 4200-2M	4200	0,01	-	0,01	± 0,02	4	В	-	-	963-127	
PES 6200-2M	6200	0,01	-	0,01	± 0,03	4	В	-	-	963-128	
PES 15000-1M	15000	0,1	-	0,1	± 0,2	4	В	-	-	963-128	
PES 31000-1M	31000	0,1	-	0,1	± 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.

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PEJ 620-3M	620	0,001	0,01	0,001	± 0,003	6	А	965-201 🗓	963-127	
PEJ 2200-2M	2200	0,01	0,1	0,01	± 0,02	6	В	965-216 🗓	963-127	
PEJ 4200-2M	4200	0,01	0,1	0,01	± 0,02	6	В	965-216 🗓	963-127	

KERN Pictograms:



Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).



Piece counting: Reference quantities selectable. Display can be switched from piece to weight.



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.



Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).



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.



Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.



Rechargeable battery pack: Rechargeable set.



Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard.

Data interface RS-232: To connect the

balance to a printer, PC or network.



Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode.



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



Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available.



• AHA •

RS 232

RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.



Totalising level A: The weights of similar items can be added together and the total can be printed out.



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 C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode



Weighing principle: Strain gauge Electrical resistor on an elastic



Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals.

WLAN data interface: To transfer data

from the balance to a printer, PC or other



recognition.



deforming body. Weighing principle: Tuning fork

excited, causing it to oscillate.

For the most accurate weighings.

A resonating body is electromagnetically



Percentage determination: Determining the deviation in % from the target value (100 %).



Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet.



WLAN

peripherals.

Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.



Weighing units: Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KFRN's website for more details.



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.



Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.



Verification possible:

The time required for verification is specified in the pictogram.



Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.



Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average



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.



Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram.



Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.



GLP/ISO log: The balance displays the weight, date and time, regardless of a printer



ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.



Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.



GLP/ISO log: With weight, date and time. Only with KERN printers.



Stainless steel: The balance is protected against corrosion.



Warranty: The warranty period is shown in the pictogram.

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 - 2000 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 forcemeasurement 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
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices • DAkkS calibration certificates in the following languages D, GB, F, I, E, NL, PL

Your KERN specialist dealer: