

Precision balances KERN EW-N · EG-N



The classic balance with robust tuning fork measuring system



GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification no. etc. Ideal for monitoring and documenting your processes in accordance with your quality management system

Percentage determination: makes it possible to store a given weight value (100 %) and to determine deviations from this target value

Weighing with tolerance range (checkweighing): a visual signal helps with portioning, dispensing or grading

Precision balances KERN EW-N · EG-N



Features

- 1 only EG-NM: **Internal adjustment** by rotary knob on the side. Guarantees high degree of accuracy and makes the balance independent of its location
- 2 only EW-NM: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- Capacity display:** A bar 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
- Totalising** of pieces when counting
- Draught shield** standard for models with weighing plate size A. Removable metal cover with pipette opening, weighing space WxDxH 158x130x78 mm

Technical data

- Large LCD display, digit height 17 mm
- Weighing plate dimensions, stainless steel,
 - A Ø 118 mm, see enlarged picture
 - B WxD 170x142 mm
 - C WxD 180x160 mm
- Overall dimensions (without draught shield) WxDxH
 - A, B 182x235x75 mm
 - C 192x265x87 mm
- Net weight approx. 1,3 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

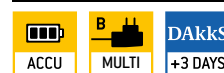
- Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items. For models with weighing plate size
 - A, B KERN EG-A05S05
 - C KERN EG-A09S05
- 4 **Precious stones plate**, aluminium with practical spout, WxDxH 83x66x23 mm, KERN AEJ-A05

- Rechargeable battery pack internal**, operating time up to 32 h without backlight, charging time approx. 12 h. AUTO-OFF function to preserve the battery, can be switched off. For models with weighing plate size
 - A, B KERN EG-A04
 - C KERN EG-A06
- 3 **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed, weighing space WxDxH 150x140x130 mm, can be retrofitted for models with weighing plate size A, KERN EG-A03
- Loop for underfloor weighing**, not included, for models with weighing plate size
 - A, B KERN EG-A07
 - C KERN EG-A08
- RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, for details see page 180, KERN YKI-01
- Suitable test weights**, also with calibration certificate see page 188
- Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD



OPTION



FACTORY






Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Reproducibility g	Linearity g	Weighing plate	Options			
							Verification		DAkkS Calibr. Certificate	
							M KERN		DKD KERN	
EW 220-3NM	220	0,001	-	0,001	± 0,002	A	-	-	963-127	
EW 420-3NM	420	0,001	-	0,001	± 0,003	A	-	-	963-127	
EW 620-3NM	620	0,001	-	0,001	± 0,003	A	-	-	963-127	
EW 820-2NM	820	0,01	-	0,01	± 0,01	B	-	-	963-127	
EW 2200-2NM	2200	0,01	-	0,01	± 0,01	C	-	-	963-127	
EW 4200-2NM	4200	0,01	-	0,01	± 0,02	C	-	-	963-127	
EW 6200-2NM	6200	0,01	-	0,01	± 0,03	C	-	-	963-128	
EW 12000-1NM	12000	0,1	-	0,1	± 0,2	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.

EG 220-3NM	220	0,001	0,01	0,001	± 0,002	A	965-216		963-127	
EG 420-3NM	420	0,001	0,01	0,001	± 0,003	A	965-216		963-127	
EG 620-3NM	620	0,001	0,01	0,001	± 0,004	A	965-201		963-127	
EG 2200-2NM	2200	0,01	0,1	0,01	± 0,01	C	965-216		963-127	
EG 4200-2NM	4200	0,01	0,1	0,01	± 0,02	C	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.	 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
 Data interface RS-232: To connect the balance to a printer, PC or network.	 Totalising level A: The weights of similar items can be added together and the total can be printed out.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available.
 RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 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 recognition.	 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.	 Weighing principle: Strain gauge Electrical resistor on an elastic deforming body.	 Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate.
 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: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings.
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.	 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.	 Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision.
 Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	 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.
 Interface for second balance: For direct connection of a second balance.	 Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.	 DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days 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.	 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.
 Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module.	 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: The balance displays the weight, date and time, regardless of a printer connection.	 Stainless steel: The balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.
 GLP/ISO log: With weight, date and time. Only with KERN printers.		

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 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
- 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: