

Precision balances KERN EW-N · EG-N



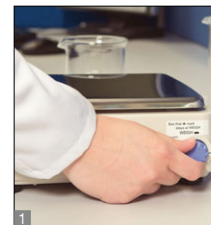
## The classic balance with robust tuning fork measuring system

### Features

- **KERN EG-N: Internal adjustment** by rotary knob on the side. Guarantees high degree of accuracy and makes the balance independent of its location
- KERN EW-N: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Stable temperature behaviour**
- **Short stabilisation time**
- **Shock proof construction**
- **High corner load performance**
- **GLP/ISO record keeping** of weight values
- **Totalising** of pieces when counting
- **Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 158×130×78 mm
- **Protective working cover** included with delivery

### Technical data

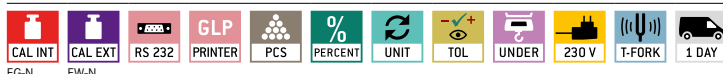
- Large LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
  - A**  $\varnothing$  118 mm, see larger picture
  - B** W×D 170×140 mm
  - C** W×D 180×160 mm
- Overall dimensions W×D×H, without draught shield
  - A, B** 182×235×75 mm
  - C** 192×275×87 mm
- Net weight approx. 1,4 kg
- Permissible ambient temperature 10 °C/30 °C



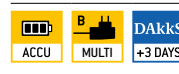
### Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size **A, B** KERN EG-A05S05  
**C** KERN EG-A09S05
- **Rechargeable battery pack internal**, operating time up to 32 h without backlight, charging time approx. 12 h, for models with weighing plate size **A, B** KERN EG-A04  
**C** KERN EG-A06  
Note: If the rechargeable battery pack is retrofitted to a verified balance, it must be recalibrated
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, for models with weighing plate size **A**, KERN EG-A03
- **Loop for underfloor weighing**, for models with weighing plate size **A, B** KERN EG-A07  
**C** KERN EG-A08
- **Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05
- 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		
<b>KERN</b>							<b>QUALITY</b>						
<b>EW 220-3NM</b>	220	0,001	-	-	± 0,002	<b>A</b>	AB	-	-	-	-	963-127	-
<b>EW 420-3NM</b>	420	0,001	-	-	± 0,003	<b>A</b>	AB	-	-	-	-	963-127	-
<b>EW 620-3NM</b>	620	0,001	-	-	± 0,003	<b>A</b>	AB	-	-	-	-	963-127	-
<b>EW 820-2NM</b>	820	0,01	-	-	± 0,01	<b>B</b>	BB	-	-	-	-	963-127	-
<b>EW 2200-2NM</b>	2200	0,01	-	-	± 0,01	<b>C</b>	BB	-	-	-	-	963-127	-
<b>EW 4200-2NM</b>	4200	0,01	-	-	± 0,02	<b>C</b>	BB	-	-	-	-	963-127	-
<b>EW 6200-2NM</b>	6200	0,01	-	-	± 0,03	<b>C</b>	BB	-	-	-	-	963-128	-
<b>EW 12000-1NM</b>	12000	0,1	-	-	± 0,2	<b>C</b>	BB	-	-	-	-	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.													
<b>EG 220-3NM</b>	220	0,001	0,01	0,02	± 0,002	<b>A</b>	BB	965-216	<b>U</b>	-	-	963-127	-
<b>EG 420-3NM</b>	420	0,001	0,01	0,02	± 0,003	<b>A</b>	BB	965-216	<b>U</b>	-	-	963-127	-
<b>EG 620-3NM</b>	620	0,001	0,01	0,1	± 0,004	<b>A</b>	BB	965-201	<b>U</b>	-	-	963-127	-
<b>EG 2200-2NM</b>	2200	0,01	0,1	0,5	± 0,01	<b>C</b>	BB	965-216	<b>U</b>	-	-	963-127	-
<b>EG 4200-2NM</b>	4200	0,01	0,1	0,5	± 0,02	<b>C</b>	BB	965-216	<b>U</b>	-	-	963-127	-

## Pictograms

<b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	<b>KERN Communication Protocol (KCP):</b> 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	<b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.
<b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required	<b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	<b>Stainless steel:</b> The balance is protected against corrosion
<b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC, tablet or smartphone	<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers	<b>Suspended weighing:</b> Load support with hook on the underside of the balance
<b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	<b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	<b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
<b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	<b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers	<b>Rechargeable battery pack:</b> Rechargeable set
<b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	<b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	<b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS
<b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	<b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	<b>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
<b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals	<b>Recipe level C:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition	<b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
<b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	<b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out	<b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
<b>WLAN data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	<b>Percentage determination:</b> Determining the deviation in % from the target value (100 %)	<b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
<b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	<b>Weighing units:</b> 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	<b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
<b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements	<b>Weighing with tolerance range:</b> (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	<b>Weighing principle: Single cell technology:</b> Advanced version of the force compensation principle with the highest level of precision
<b>Interface for second balance:</b> For direct connection of a second balance	<b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	<b>Verification possible:</b> The time required for verification is specified in the pictogram
<b>Network interface:</b> For connecting the scale to an Ethernet network		<b>DAKkS calibration possible:</b> The time required for DAKkS calibration is shown in days in the pictogram
<b>Wireless data transfer:</b> between the weighing unit and the evaluation unit using an integrated radio module		<b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram
		<b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram

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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, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

## Your KERN specialist dealer: