



All-rounder e.g. as precision balance in the laboratory or in harsh industrial applications, also with EC type approval [M]

Features

- Thanks to the **many typical laboratory functions**, such as, for example, recipe function, percentage determination, GLP record keeping, combined with the high level of precision, the KERN 572 is a reliable partner for day-to-day work in the laboratory
- **The robust version**, typical industrial functions, such as piece-counting, vibrationfree weighing and the large weighing ranges also make these balances ideal for all industrial applications, where a high level of precision is required

- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **The robust aluminium diecast housing** maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- **KERN 572: Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space  $\varnothing \times H$  157×43 mm
- **Hook for underfloor weighing**, standard for models with [d] = 0,001 g

Technical data

- Large backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel
  - A**  $\varnothing$  106 mm
  - B**  $\varnothing$  150 mm
  - C** W×D 160×200 mm, see larger picture
- Overall dimensions W×D×H 180×310×85 mm
- Permissible ambient temperature
  - KERN 572: 10 °C/40 °C
  - KERN 573: 10 °C/30 °C

Accessories

- **Protective working cover**, standard, can be re-ordered, scope of delivery: 5 items, KERN 572-A02S05
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- **3 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 572-A05
- **Hook for underfloor weighing**, for models with [d]  $\geq$  0,01 g, KERN 572-A03
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



| Model   | Weighing range [Max]<br>g | Readout [d]<br>g | Verification value [e]<br>g | Minimal load [Min]<br>g | Linearity<br>g | Weighing plate | Options      |  |                           |  |
|---|---------------------------|------------------|-----------------------------|-------------------------|----------------|----------------|--------------|--|---------------------------|--|
|   |                           |                  |                             |                         |                |                | Verification |  | DAkkS Calibr. Certificate |  |
|   |                           |                  |                             |                         |                |                |              |  |                           |  |
| <b>572-30</b>   | 240                       | 0,001            | -                           | -                       | ± 0,003        | <b>A</b>       | -            |  | 963-127                   |  |
| <b>572-31</b>   | 300                       | 0,001            | -                           | -                       | ± 0,005        | <b>A</b>       | -            |  | 963-127                   |  |
| <b>572-32</b>   | 420                       | 0,001            | -                           | -                       | ± 0,005        | <b>A</b>       | -            |  | 963-127                   |  |
| <b>572-33</b>   | 1600                      | 0,01             | -                           | -                       | ± 0,03         | <b>B</b>       | -            |  | 963-127                   |  |
| <b>572-35</b>   | 2400                      | 0,01             | -                           | -                       | ± 0,03         | <b>B</b>       | -            |  | 963-127                   |  |
| <b>572-37</b>   | 3000                      | 0,01             | -                           | -                       | ± 0,05         | <b>B</b>       | -            |  | 963-127                   |  |
| <b>572-39</b>   | 4200                      | 0,01             | -                           | -                       | ± 0,05         | <b>B</b>       | -            |  | 963-127                   |  |
| <b>572-45</b>   | 12000                     | 0,05             | -                           | -                       | ± 0,15         | <b>C</b>       | -            |  | 963-128                   |  |
| <b>572-55</b>   | 20000                     | 0,05             | -                           | -                       | ± 0,25         | <b>C</b>       | -            |  | 963-128                   |  |
| <b>572-43</b>   | 10000                     | 0,1              | -                           | -                       | ± 0,3          | <b>C</b>       | -            |  | 963-128                   |  |
| <b>572-49</b>   | 16000                     | 0,1              | -                           | -                       | ± 0,3          | <b>C</b>       | -            |  | 963-128                   |  |
| <b>572-57</b>   | 24000                     | 0,1              | -                           | -                       | ± 0,3          | <b>C</b>       | -            |  | 963-128                   |  |
| Note: For applications that require verification, please order verification on at the same time, initial verification at a later date is not possible.<br>Verification at the factory, we need to know the full address of the location of use. |                           |                  |                             |                         |                |                |              |  |                           |  |
| <b>573-34NM</b>   | 650                       | 0,01             | 0,1                         | 0,5                     | ± 0,03         | <b>B</b>       | 965-216      |  | 963-127                   |  |
| <b>573-46NM</b>   | 6500                      | 0,1              | 1                           | 5                       | ± 0,3          | <b>C</b>       | 965-217      |  | 963-128                   |  |

# 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.



**Rechargeable battery pack:** Rechargeable set.



**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).



**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



**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.



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



**Alibi memory:** Electronic archiving of weighing results, complying with the 2014/31/EU standard.



**Recipe level C:** 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.



**Power supply:** Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.



**Data interface RS-232:** To connect the balance to a printer, PC or network.



**Weighing principle: Strain gauge**  
Electrical resistor on an elastic deforming body.



**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.



**Weighing principle: Tuning fork**  
A resonating body is electromagnetically excited, causing it to oscillate.



**USB data interface:** To connect 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.



**Bluetooth\* 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.



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



**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.



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



**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.



**Interface for second balance:** For direct connection of a second balance.



**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.



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



**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.



**Wireless data transfer:** between the weighing unit and the evaluation unit using an integrated radio module.



**Stainless steel:** The balance is protected against corrosion.



**Warranty:** The warranty period is shown in the pictogram.



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



**Suspended weighing:** Load support with hook on the underside of the balance.



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



**Battery operation:** Ready for battery operation. The battery type is specified for each device.

## 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: