BALANCES & TEST SERVICE 2024

Precision balances

Compact Laboratory Balance KERN 440



BASIC ★★







The classic balance in the laboratory

Features

- Compact size, practical for small spaces
- Percentage determination: makes it possible to store a given weight value (100 %) and to determine deviations from this target value
- ▲ Ring-shaped draught shield standard, only for models with weighing plate size ▲, weighing space Ø×H 90×40 mm
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface,
- A \emptyset 81 mm, plastic, with conductive lacquer
- ₿ Ø 105 mm, stainless steel
- C W×D 130×130 mm, stainless steel
- W×D 150×170 mm, stainless steel,
- see larger picture
- + Overall dimensions W×D×H 165×230×80 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,95 kg
- + Permissible ambient temperature 5 $^\circ\text{C}/35$ $^\circ\text{C}$

Accessories

- Protective working cover, scope of delivery:
 5 items, for models with weighing plate size
- A KERN 440-210-002805
- B KERN 440-330-002S05
- C KERN 440-450-002S05
- D KERN 440-530-002S05
- Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01
- For models with weighing plate size **B**-**D**: Hook for underfloor weighing, KERN 440-A01
- Individual header data: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N and YKE-01
- Further details, plenty of further accessories and suitable printers see *Accessories*

| STANDAR | STANDARD | | | | | | | | | | | OPTION |
|---------|----------|---------|----------|----------|---------|------|------|------|-------|-----|----------|------------|
| | | GLP | <u>.</u> | ^ | % | C | ^-₽ | | B | | . | , <u>É</u> |
| CAL EXT | RS 232 | PRINTER | PCS | RECIPE | PERCENT | UNIT | MOVE | BATT | MULTI | DMS | 1 DAY | UNDER |
| | | | | | | | | | | | | B D |

| Model | Weighing capacity | Readability | Reproducibility | Linearity | Weighing plate | Options |
|---------|-------------------|-------------|-----------------|-----------|----------------|---------------------------|
| | [Max] | [d] | | | | DAkkS Calibr. Certificate |
| | | | _ | _ | | DAkkS |
| KERN | g | g | g | g | | KERN |
| 440-21A | 60 | 0,001 | 0,001 | ± 0,003 | А | 963-127 |
| 440-33N | 200 | 0,01 | 0,01 | ± 0,02 | В | 963-127 |
| 440-35N | 400 | 0,01 | 0,01 | ± 0,03 | В | 963-127 |
| 440-35A | 600 | 0,01 | 0,01 | ± 0,03 | В | 963-127 |
| 440-43N | 400 | 0,1 | 0,1 | ± 0,2 | C | 963-127 |
| 440-45N | 1000 | 0,1 | 0,1 | ± 0,2 | C | 963-127 |
| 440-47N | 2000 | 0,1 | 0,1 | ± 0,2 | C | 963-127 |
| 440-49N | 4000 | 0,1 | 0,1 | ± 0,3 | D | 963-127 |
| 440-49A | 6000 | 0,1 | 0,1 | ± 0,3 | D | 963-128 |
| 440-51N | 4000 | 1 | 1 | ± 2 | D | 963-127 |
| 440-53N | 6000 | 1 | 1 | ± 2 | D | 963-128 |

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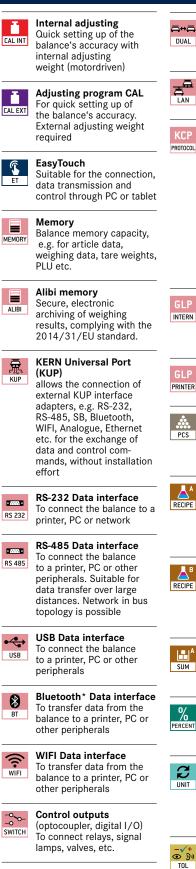
ACCU

DAkk

ONLY WHILE STOCKS LAST

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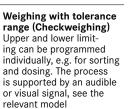
KERN Pictograms





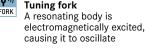
Analogue interface to connect a suitable peripheral device for analogue processing of the measurements





Hold function (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value Protection against dust and water splashes IPxx The type of protection is shown in the pictogram Suspended weighing Load support with hook on the underside of the balance **Battery operation** Ready for battery operation. The battery type is specified for each device Rechargeable battery pack Rechargeable set Universal plug-in power supply with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, US C) EU, CH, GB, US, AUS Plug-in power supply 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available Integrated power supply unit Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request Weighing principle Strain gauges Electrical resistor on an elastic deforming body

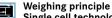
Weighing principle





Weighing principle Electromagnetic force compensation

Coil inside a permanent magnet. For the most accurate weighings



Single cell technology Advanced version of the force compensation principle with the highest level of precision

Conformity Assessment Μ The time required for +3 DAYS conformity assessment is specified in the pictogram

DAkkS calibration DAkkS

possible (DKD) The time required for DAkkS calibration is shown in days in the pictogram



1 DAY

+3 DAYS

Factory calibration (ISO) The time required for Factory calibration is shown in days in the pictogram

Package shipment

The time required for internal shipping preparations is shown in days in the pictogram

Pallet shipment

, È The time required for 2 DAYS internal shipping preparations is shown in days in the pictogram

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