

Precizna tehtnica KERN 440



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 draft shield standard, only for models with weighing plate size **A**, weighing space ØxH 90x40 mm

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions of weighing plate (stainless steel*)
 - A** 81 mm
 - B** 105 mm*
 - C** 130x130 mm*
 - D** 150x170 mm*, see larger picture
- Optional battery operation, 9 V Block, not included. AUTO-OFF function to preserve the battery
- Overall dimensions (without draft shield) WxDxH 165x230x80 mm
- Net weight approx. 1 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- Protective working cover over keyboard and housing, standard, can be reordered for models with weighing plate sizes
 - A** KERN 440-210-002
 - B** KERN 440-330-002
 - C** KERN 440-450-002
 - D** KERN 440-530-002
- Rechargeable battery pack internal, operating time up to 20 h, charging time approx. 10 h, KERN FCB-A01
- Second display, KERN YKD-A01
- Individual header data: the free software KERN SHM-01 can be used to print 4 header lines on the printout for printers 911-013 and YKB-01N
- Hook for underfloor weighing to weigh hanging loads, standard, can be reordered, KERN 440-A01
- Suitable printers see page 130

STANDARD

































only with printer

OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Option DKD Calibr. Certificate	
							DKD KERN	
440-21A	60	0,001	0,001	± 0,003	0,002	A	963-127	
440-33N	200	0,01	0,01	± 0,02	0,02	B	963-127	
440-35N	400	0,01	0,01	± 0,03	0,02	B	963-127	
440-35A	600	0,01	0,01	± 0,03	0,02	B	963-127	
440-43N	400	0,1	0,1	± 0,2	0,2	C	963-127	
440-45N	1000	0,1	0,1	± 0,2	0,2	C	963-127	
440-47N	2000	0,1	0,1	± 0,2	0,2	C	963-127	
440-49N	4000	0,1	0,1	± 0,3	0,2	D	963-127	
440-49A	6000	0,1	0,1	± 0,3	0,2	D	963-128	
440-51N	4000	1	1	± 2	2	D	963-127	
440-53N	6000	1	1	± 2	2	D	963-128	

KERN Pictograms

 CAL INT Internal adjusting (CAL): Quick setting of the balance's accuracy with internal adjusting weight (motordriven).	 CAL EXT Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.	 MEMORY Memory: Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU
 RS 232 Data interface RS-232: To connect the balance to a printer, PC or network	 SWITCH Control outputs (optocoupler, digital I/O) to connect relays, signal lamps, valves, etc.	 DUAL Interface for second balance: for direct connection of a second balance
 LAN Network interface: For connecting the scale to an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.	 GLP PROTOCOL GLP/ISO record keeping: of weighing data with date, time and identification-no. Only with printers from KERN.	 PCS Piece counting: Reference quantities selectable. Display can be switched from piece to weight
 RECIPE Net-total weighing: weight of tare cup and weight of components memorized in two separate stores.	 % PERCENT Percentage determination: Determining the deviation in % from the target value (100%).	 UNIT Weighing units: 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.
 TOL Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.	 MOVE Vibration-free weighing: (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.	 IP Spray and dust protection IPxx: The type of protection is shown by the pictogram. For details see the glossary.
 INOX Stainless steel: the balance is protected against corrosion.	 UNDER Suspended weighing: load support with hook on the underside of the balance.	 BATT Battery operation: Ready for battery operation. The battery type is specified for each device.
 ACCU Rechargeable battery pack: rechargeable set.	 230 V Mains adapter: 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.	 230 V Power supply: integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.
 DMS Strain gauges: Electrical resistor on an elastic deforming body.	 T-FORK Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.	 FORCE Electromagnetic force compensation: Coil in a permanent magnet. For the most accurate weighings.
 SC TECH Single cell technology: Advanced version of the force compensation principle with the highest level of precision.	 M +3 DAYS Verification possible: The time required for verification is specified in the pictogram.	 DKD +3 DAYS DKD calibration possible: The time required for DKD calibration is shown in days in the pictogram.
 DAYS Package shipment: The time required to manufacture the product internally is shown in days in the pictogram.	 DAYS Pallet shipment: The time required to manufacture the product internally is shown in days in the pictogram.	 3 YEARS WARRANTY Warranty: The warranty period is shown in the pictogram.

Precision is our business

To ensure the high level of precision of your balance, KERN offers the appropriate test weight package for your balance. This consists of the test weight, box and DKD calibration certificate, as proof of its accuracy. The best way to ensure proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, and M3 with weights from 1 mg to 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe. (DKD = German Calibration Service ~ UKAS)

Thanks to the high level of automation, we can carry out DKD calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DKD calibration of balances with a maximum load of up to 6000 kg
- DKD calibration of weights in the range of 1 mg – 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages
D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponding test weight or the calibration service? Your KERN specialist dealer will be pleased to assist you.

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