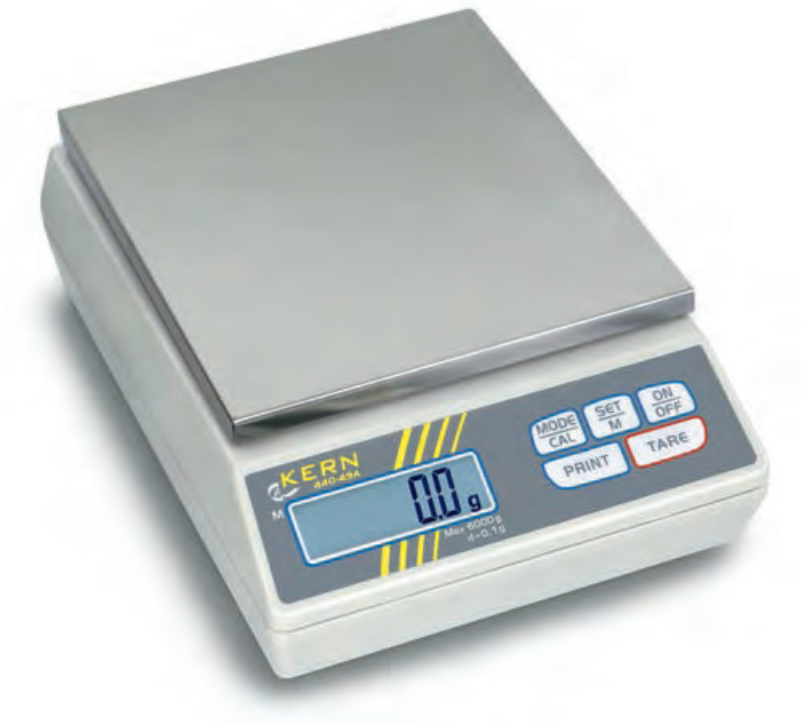


The classic balance in the laboratory

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 A, weighing space Ø×H 90×40 mm

Technical data

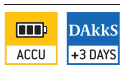
- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface
  - A Ø 81 mm
  - B Ø 105 mm
  - C W×D 130×130 mm
  - D W×D 150×170 mm, see larger picture
- Weighing plate material
  - A plastic, with conductive lacquer
  - B, C, D stainless steel
- Optional battery operation, 9 V block not included, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Overall dimensions W×D×H 165×230×80 mm
- Net weight approx. 0,95 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, can be re-ordered, standard, scope of delivery: 5 items, for models with weighing plate size
  - A KERN 440-210-002S05
  - B KERN 440-330-002S05
  - C KERN 440-450-002S05
  - D KERN 440-530-002S05
- **Rechargeable battery pack internal**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-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, YKE-01 and YKC-01 (in combination with YKI-02)
- **Hook for underfloor weighing**, optional, KERN 440-A01
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

OPTION



Model KERN	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate		Option DAkkS Calibr. Certificate DKD KERN	
440-21A	60	0,001	0,001	± 0,003	A		963-127	
440-33N	200	0,01	0,01	± 0,02	B		963-127	
440-35N	400	0,01	0,01	± 0,03	B		963-127	
440-35A	600	0,01	0,01	± 0,03	B		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	

KERN Pictograms

CAL INT
Internal adjusting:
Quick setting up of the balance's accuracy with internal adjusting weight(motordriven).

CAL EXT
Adjusting program CAL:
For quick setting up of the balance's accuracy. External adjusting weight required.

MEMORY
Memory:
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.

ALIBI
Alibi memory:
Electronic archiving of weighing results, complying with the 2009/23/EC standard.
For details see page 199

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

RS 485
RS-485 data interface:
To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.

USB
USB data interface:
To connect the balance to a printer, PC or other peripherals.

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

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

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 use a universal RS-232/LAN converter.
See page 166

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

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

GLP PRINTER
GLP/ISO log:
With weight, date and time. Only with KERN printers, see "Accessories", see page 163.

PCS
Piece counting:
Reference quantities selectable. Display can be switched from piece to weight.

A RECIPE
Recipe level A:
Separate memory for the weight of the tare container and the recipe ingredients(net total).

B RECIPE
Recipe level B:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.

C RECIPE
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.

A SUM
Totalising level A:
The weights of similar items can be added together and the total can be printed out.

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 values can be programmed individually for e.g. dosing, sorting and portioning

MOVE
Hold function:
(Animal weighing program):When the weighing conditions are unstable, a stable weight is calculated as an average value.

IP
Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram. For details see page 56.

ATEX
ATEX explosion protection:
Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.

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.

A MULTI
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

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

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

DMS
Weighing principle: Strain gauges
Electrical resistor on an elastic deforming body.

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

FORCE
Weighing principle: Electromagnetic force compensation
Coil inside a permanent magnet. For the most accurate weighings.

SC TECH
Weighing principle: 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.

DAkkS +3 DAYS
DAkkS calibration possible (DKD):
The time required for DAkkS calibration is shown in days in the pictogram.

1 DAY
Package shipment:
The time required for internal shipping preparations is shown in days in the pictogram.

2 DAYS
Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram.

3 YEARS WARRANTY
Warranty:
The warranty period is shown in the pictogram.

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