BALANCES & TEST SERVICE 2023

SCHOOL BALANCES

School balance KERN EFS









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Perfect school balances for experimental teaching - easy to use, space-saving, stackable

Features

- · Simple and convenient 2-key operation, making them ideal for use in schools and universities
- Tare function facilitates formulation work
- Particularly flat design
- · Secure and non-slip positioning with rubber feet
- 11 Stackable for space-saving storage
- 2 Practical battery operation using standard batteries ensures a high level of flexibility and freedom from mains adapters, sockets, chargers, etc.

Technical data

- · Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, W×D 134×127 mm
- Overall dimensions W×D×H 145×205×46,5 mm
- Battery operation, 4×1.5 V AA standard, operating time up to 200 h, Integrated AU-TO-OFF function to preserve the batteries
- Net weight approx. 0,45 kg
- Permissible ambient temperature 10 °C / 40 °C
- Note: The models with the suffix -S05 are delivered in a set of 5 units. i.e. the price given in the table refers to 5 items. Cannot be delivered individually. The calibration prices refers to one single balance

Accessories

· External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, USA, KERN YKA-27

STANDARD				OPTION		
)			B	DAkkS	
CAL EXT	BATT	DMS	1 DAY	MULTI	+3 DAYS	

Model	Weighing capacity	Readability	Reproducibility	Linearity	Quantity delivered	Option DAkkS Calibr. Certificate
KERN	[Max] g	[d] g	g	g	(balance)	DAkkS DAkkS KERN
EFS 500-2	500	0,01	0,01	± 0,03	1	963-127
EFS 200-1S05	220	0,1	0,1	± 0,3	5	963-127
EFS 600-1S05	620	0,1	0,1	± 0,3	5	963-127
EFS 3000-1	3000	0,1	0,1	± 0,3	1	963-127
EFS 2000-0S05	2200	1	1	± 3	5	963-127
EFS 5000-0S05	5200	1	1	± 3	5	963-127

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KERN PICTOGRAMS



Network interface:

Ethernet network



CAL INT

Adjusting program CAL:

Internal adjusting:

weight (motordriven)

For quick setting up of the balance's accuracy. External adjusting weight required

Quick setting up of the balance's

accuracy with internal adjusting



Easy Touch:

Suitable for the connection, data transmission and control through PC or tablet.



Memory: Balance memory capacity, e.g.

for article data, weighing data, tare weights, PLU etc.



Alibi memory:

Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.



• 888. •

RS 232

• 1998. •

RS 485

KERN Universal Port (KUP):

allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB. Bluetooth, WLAN, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort

Data interface RS-232:

To connect the balance to a printer, PC or network



To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible

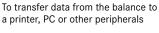
USB data interface:

To connect the balance to a printer, PC or other peripherals



USB

Bluetooth* data interface:





WiFi data interface:

To transfer data from the balance to a printer, PC or other peripherals

Control outputs _0^0_ (optocoupler, digital I/O): SWITCH

To connect relays, signal lamps, valves, etc.



Analogue interface:

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



Interface for second balance:

For direct connection of a second balance



MOVE

The type of protection is shown in the pictogram.





KCP

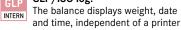
For connecting the scale to an



It is a standardized interface command PROTOCOL 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



connection



The balance displays weight, date



PRINTER

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

Piece counting:



Reference quantities selectable. Display can be switched from piece to weight

Recipe level A:

The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out

Recipe level B: Å

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



Totalising level A:

The weights of similar items can be added together and the total can be printed out



Percentage determination:

Determining the deviation in % from the target value (100 %)

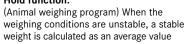
Weighing units: B

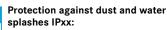
Can be switched to e.g. nonmetric UNIT units. See balance model. Please refer to KERN's website for more details



Weighing with tolerance range: (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

Hold function: M--



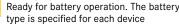


Suspended weighing: UNDER

BATT

Load support with hook on the underside of the balance

Battery operation:





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, USA C) EU, CH, GB, USA, AUS

Plug-in power supply:

230V/50Hz in standard version for EU, CH. 230 V 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: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate



Weighing principle: Electromagnetic force compensation

Coil inside a permanent magnet. For the most accurate weighings



Weighing principle: Single cell technology:

Advanced version of the force compensation principle with the highest level of precision



Verification possible: The time required for verification is +3 DAYS specified in the pictogram



ISO

+4 DAYS

1 DAY

2 DAYS

DAkkS calibration possible (DKD):

The time required for Factory calibration

The time required for internal shipping prepa-

The time required for internal shipping prepa-

rations is shown in days in the pictogram

rations is shown in days in the pictogram

is shown in days in the pictogram

The time required for DAkkS calibration is shown in days in the pictogram

Factory calibration (ISO):

Package shipment:

Pallet shipment:



Pricing on any accessories shown can be found by keying the part number into the search box on our website. The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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