BALANCES & TEST SERVICE 2024

Precision balances

IoT-Line Compact Laboratory Balance KERN PCB



The standard in the laboratory, ideal for a wide range of applications for Industry 4.0

Features

- Compatible with school-specific software solutions such as, for example, Vernier ® or LabQuest ®. Thanks to the KERN School Protocol, as part of technical experiments, weighing data can be transferred to a PC, laptop, etc. for evaluation and display using the USB data interface
- Industry 4.0: The integrated KERN Universal Port (KUP) allows the connection of external KUP interface adapters such as RS-232, USB, Bluetooth, WIFI, Analogue, Ethernet etc. The outstanding advantage here is that the KUP interface adapters are simply plugged in, i.e. retrofitting interfaces is conveniently possible without opening the scale housing or complicated installation. The interface adapters enable convenient transmission of weighing data to networks, PCs, smartphones, tablets, laptops, printers etc. In addition, control commands and data inputs can also be sent to the scale via the connected devices.

Tip: with the KERN KUP-13 extension box, up to three KUP interface adapters can be operated in parallel on the scale.

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- For further information on KUP and KCP see page 20/21
- · Standardised, simplified concept of operation
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar

- A special Anti-Shock system between the weighing plate and weighing cell reduces vibrations during the weighing process and in this way ensures rapid, reliable weighing results
- A Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm
- · Protective working cover included with delivery





Easy

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Technical data

- Backlit LCD display, digit height 21 mm
- · Dimensions weighing surface
- A Ø 82 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
- Overall dimensions (without draught shield)
 W×D×H 163×245×65 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Permissible ambient temperature -10 °C/40 °C



Accessories

- Protective working cover, scope of delivery: 5 items, KERN YBA-A12S05
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01
- External data interface RS-232, interface cable included, KERN KUP-01
- External data interface USB, interface cable included, KERN KUP-03
- Interface adapter Ethernet, KERN KUP-04
- Interface adapter WiFi, KERN KUP-05
- Bluetooth interface adapter, KERN KUP-06
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies:
 1 CD, 1 license, KERN SCD-4.0
- Further details, plenty of further accessories and suitable printers see *Accessories*



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Resolution	Weighing plate	Options DAkkS Calibr. Certificate DAkkS
KERN	g	g	g	g	Points		KERN
PCB 200-3	200	0,001	0,001	± 0,005	200.000	Α	963-127
PCB 300-3	360	0,001	0,001	± 0,005	360.000	Α	963-127
PCB 300-2	300	0,01	0,01	± 0,02	30.000	В	963-127
PCB 1000-2	1200	0,01	0,01	± 0,03	120.000	C	963-127
PCB 3000-2	3600	0,01	0,01	± 0,05	360.000	C	963-127
PCB 2000-1	2000	0,1	0,1	± 0,2	20.000	C	963-127
PCB 6000-1	6000	0,1	0,1	± 0,3	60.000	D	963-128
PCB 10000-1	10000	0,1	0,1	± 0,3	100.000	D	963-128
PCB 6000-0	6000	1	1	± 2	6.000	D	963-128





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Interface for second

second balance

Protocol (KCP)

It is a standardized

Network interface

an Ethernet network

KERN Communication

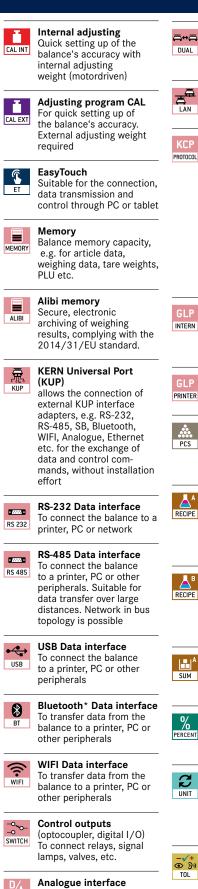
interface command set for

For direct connection of a

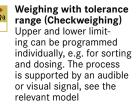
For connecting the scale to

balance

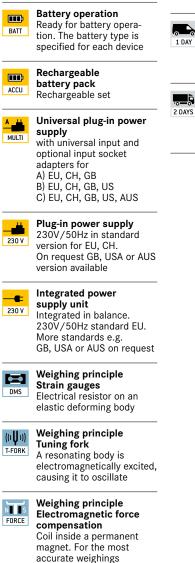
KERN Pictograms

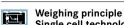












Single cell technology Advanced version of the force compensation principle with the highest level of precision

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



+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

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

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ANALOG

to connect a suitable

peripheral device for analogue processing of the measurements