

Precision Balance KERN PWS

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High-resolution precision balance made of stainless steel with IP protection

Features

- · High-quality tuning fork weighing system for rapid display of the weight, very precise dispensing and a high level of mechanical robustness
- · Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- IP65 dust and spray protection (in accordance with EN 60529)
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- 11 RS 232 data interface for connection to a printer as standard

Technical data

- · Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
 - A Ø 140 mm
- **B** W×D 190×190 mm, see larger picture
- Overall dimensions W×D×H 320×205×90 mm
- Net weight approx. 3,0 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- · Loop for underfloor weighing, KERN EG-A07
- · 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
 - 2 Battery insert, enables mobile weighing, 4×1.5 V AA batteries (not included in delivery), Operating time 200 h, KERN PWS-A01
- Interface cable RS-232 to connect an external device, IP65 dust and spray protection (in accordance with EN 60529), KERN PWS-A02
- Further details, plenty of further accessories and suitable printers see Accessories

STANDARD





























Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Options
	[Max]	[d]				DAkkS Calibr. Certificate
KERN	[Wax]	[0]	~	~		DAkkS
KEKIN	g	g	g	g		KERN
PWS 800-2	820	0,01	0,01	± 0,01	А	963-127
PWS 3000-1	3200	0,1	0,1	± 0,1	В	963-127
PWS 8000-1	8200	0,1	0,1	± 0,1	В	963-128

BALANCES & TEST SERVICE 2024

KERN Pictograms





Internal adjusting

Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)



Adjusting program CAL

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



EasyTouch

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.



KERN Universal Port (KUP)

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



RS-232 Data interface

To connect the balance to a printer, PC or network



RS-485 Data interface

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



Bluetooth* Data interface

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



WIFI Data interface

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



Control outputs

(optocoupler, digital I/O) 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



Network interface

For connecting the scale to an Ethernet network



KERN Communication Protocol (KCP)

It is a standardized interface command 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



GLP/ISO log intern

The balance displays weight, date and time, independent of a printer connection



GLP/ISO log Printer

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

Internal memory for complete recipés 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 Can be switched to e.g. nonmetric units. See



 \mathcal{Z}

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

(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 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



Conformity Assessment

The time required for conformity assessment is specified in the pictogram



DAkkS calibration possible (DKD)

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



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 internal shipping preparations is shown in days in the pictogram



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