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KERN 572 Precision balance User Manual

572 Precision balance
User Manual

Precision balance KERN 572 · 573
KERN BALANCES & TEST SERVICES 2022
All-rounder e.g. as precision balance in the laboratory or in harsh industrial applications

Contents

Features

- Thanks to the many typical laboratory functions, such as, for example, recipe function, percentage determination, and GLP record keeping, combined with the high level of precision, the KERN 572 is a reliable partner for day-to-day work in the laboratory
- The robust version, typical industrial functions, such as piece-counting, vibration-free weighing, and the large weighing range also make these balances ideal for all industrial applications, where a high level of precision is required
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar
- The robust aluminum diecast housing maintains stability, protects the weighing technology elements, and is robust enough to cope with everyday use
- Ring-shaped draught shield standard, only for models with weighing plate size A weighing space ∅×H 157×43 mm
- A model with resolution > 240,000 Pt: Level indicator to level the balance precisely
- Loop for underfloor weighing, the standard for models with [d] < 0,01 g
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 18 mm
- Dimensions weighing surface, Stainless Steel A ∅ 106 mm B ∅ 150 mm W×D 160×200 mm, see larger picture
- Net weight A, B approx. 2,4 kg C approx. 2,8 kg
- Overall dimensions W×D×H 180×310×85 mm
- Permissible ambient temperature 10 °C/40 °C

Accessories

- Protective working cover, the scope of delivery: 5 items, KERN 572-A02S05
- Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- Loop and hook for underfloor weighing, for models with [d] ≥ {0,01 g, KERN 572-A03
- 1 Large glass draught shield with 3 sliding doors for easy access to the items being weighed.

- Weighing space W×D×H 150×140×130 mm, for models with weighing plate size A, KERN 572-A05

STANDARD

Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Resolution Points	Weighing plate		Option	
								DAkkS Calibr. Certificate	
								DAkkS KERN	
572-30	240	1	1	± 0,003	240.000	A		963-127	
572-31	300	1	2	± 0,005	300.000	A		963-127	
572-32	420	1	2	± 0,005	420.000	A		963-127	
573-34	650	0,01	0,01	± 0,03	65.000	B		963-127	
572-33	1600	0,01	0,01	± 0,03	160.000	B		963-127	
572-35	2400	0,01	0,01	± 0,03	240.000	B		963-127	
572-37	3000	0,01	0,02	± 0,05	300.000	B		963-127	
572-39	4200	0,01	0,02	± 0,05	420.000	B		963-127	
57245	12000	0,05	0,05	± 0,15	240.000	c		963-128	
572-55	20000	0,05	0,1	± 0,25	400.000	c		963-128	
57346	6500	0,1	0,1	± 0,3	65.000	c		963-128	
57243	10000	0,1	0,1	± 0,3	100.000	c		963-128	
57249	16000	0,1	0,1	± 0,3	160.000	c		963-128	
572-57	24000	0,1	0,1	± 0,3	240.000	c		963-128	

KERN BALANCES & TEST SERVICES 2022

Pictograms

Internal adjusting:
Quick set up of the balance‘s accuracy with internal adjusting weight (motor) iven

Adjusting program CAL:
For a quick setup of the balance‘s accuracy. External adjusting weight required

Easy Touch:
Suitable for 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.

Data interface RS-232:
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 datatransfer 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.

Analog interface:
to connect a suitable peripheral device for analog 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:
The balance displays the serial number, user ID, weight, date, and time, regardless of a printer connection

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

Piece counting:
Reference quantities are selectable. The 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 recipes with name and the target value of the recipe ingredients. User guidance through display

Totalizing 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. non-metric 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

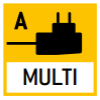
Hold function:
(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram.

Suspended weighing:
Load support with a 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, USA; C) EU, CH, GB, USA, 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:
The 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:
The coil is 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 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

KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg – 2500 kg. In combination with a DAkkS calibration certificate the best pre-requisite for proper balance calibration.
The KERN DAkkS calibration laboratory today is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights, and force-measure- met in Europe.
Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights, and force-measuring devices 24 hours a day, 7 days a week.
Range of services:

- DAkkS calibration of balances with a maximum load of up to 50 t
- DAkkS calibration of weights in the range of 1 mg – 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service

- Calibration of force-measuring devices
- DAkkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL
- Conformity evaluation and verification of balances and test weights

Your KERN specialist dealer:
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