Precision balance KERN PLS · PLJ

Excellent performance, excellent price – also with internal adjustment

GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification no... Ideal for monitoring and documenting your processes in accordance with your quality management system

Piece counting
Thanks to its high level of accuracy, it is ideal for counting the smallest parts

Percentage determination: parts taken out of a container which is on the weighplate can be displayed as a percentage. Convenient when carrying out drying processes, during which the evaporated moisture or the remaining weight can be displayed as a percentage

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Features

- 1 **Ergonomically optimised keypad** for left and righthanded users
- **Glass draught guard**, standard for models with weighing plate sizes A. Removable metal cover with pipette opening. weighing space ØxH 150x60 mm
- 2 KERN PLJ: **Automatic internal adjustment**
- 3 KERN PLS: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 133 ff.

Technical data

- Backlit LCDdisplay, digit height 17 mm
- Dimensions of weighing plate (stainless steel)
  A Ø 110 mm
  B Ø 160 mm, see larger picture
  C WxD 200x175 mm
- Overall dimensions WxDxH
  without draft shield: 210x340x100 mm
  with draft shield: 210x340x160 mm
- 4 KERN PLS/PLJ-F: Strain gauge
- 5 KERN PLS/PLJ-A: Force compensation
- Net weight approx. 4,5 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** standard, can be reordered, KERN PLJ-A01
- **Hook for underfloor weighing** to weigh hanging loads, only for PLS-F and PLJ-A, KERN PLJ-A02
- **Set for density determination** of liquids and solids with density ≤ 1 ≥ on all models with readout d = 0,001 g, KERN ALT-A02
  on all models with readout d = 0,01 g, KERN PLT-A01
- **Suitable printers** see page 130

STANDARD

CAL INT 2 · CAL EXT 3 · RS 232 · GLP PROTOCOL (only with printer) · PCS · PERCENT · TOL · UNDER · 230 V · DMS 4 · FORCE 5 · 1 DAY · 3 YEARS WARRANTY

OPTION

DKD +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Repro-ducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Net weight approx. kg		Option Verification KERN		Option DKD Calibr. Certificate KERN	
PLS 420-3F	420	0,001	–	0,001	± 0,004	0,005	A	4		–		963-127	
PLS 720-3A	720	0,001	–	0,001	± 0,002	0,005	A	4,5		–		963-127	
PLS 1200-3A	1200	0,001	–	0,001	± 0,003	0,005	A	4,5		–		963-127	
PLS 4200-2F	4200	0,01	–	0,01	± 0,04	0,05	B	4		–		963-127	
PLS 6200-2A	6200	0,01	–	0,01	± 0,03	0,05	B	4,5		–		963-128	
PLS 20000-1F	20000	0,1	–	0,1	± 0,4	0,5	C	4		–		963-128	
PLJ 420-3F	420	0,001	–	0,001	± 0,003	0,005	A	4		–		963-127	
PLJ 1200-3A	1200	0,001	–	0,001	± 0,003	0,005	A	4,5		–		963-127	
PLJ 4200-2F	4200	0,01	–	0,02	± 0,04	0,05	B	4		–		963-127	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.													
PLJ 720-3A	720	0,001	0,01	0,001	± 0,002	0,05	A	4,5				963-127	
PLJ 6200-2A	6200	0,01	0,1	0,01	± 0,02	0,05	B	4,5				963-128	

KERN Pictograms

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

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

Memory: Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU

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

Control outputs (optocoupler, digital I/O) to connect relays, signal lamps, valves, etc.

Interface for second balance: for direct connection of a second balance

Network interface: For connecting the scale to an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.

GLP/ISO record keeping: of weighing data with date, time and identification-no. Only with printers from KERN.

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

Net-total weighing: weight of tare cup and weight of components memorized in two separate stores.

Percentage determination: Determining the deviation in % from the target value (100%).

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.

Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.

Vibration-free weighing: (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.

Spray and dust protection IPxx: The type of protection is shown by the pictogram. For details see the glossary.

Stainless steel: the balance is protected against corrosion.

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.

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

Power supply: integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.

Strain gauges: Electrical resistor on an elastic deforming body.

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

Electromagnetic force compensation: Coil in a permanent magnet. For the most accurate weighings.

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.

DKD calibration possible: The time required for DKD calibration is shown in days in the pictogram.

Package shipment: The time required to manufacture the product internally is shown in days in the pictogram.

Pallet shipment: The time required to manufacture the product internally is shown in days in the pictogram.

Warranty: The warranty period is shown in the pictogram.

Precision is our business

To ensure the high level of precision of your balance, KERN offers the appropriate test weight package for your balance. This consists of the test weight, box and DKD calibration certificate, as proof of its accuracy. The best way to ensure proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, and M3 with weights from 1 mg to 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe.
(DKD = German Calibration Service ~ UKAS)

Thanks to the high level of automation, we can carry out DKD calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DKD calibration of balances with a maximum load of up to 6000 kg
- DKD calibration of weights in the range of 1 mg – 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponsing test weight or the calibration service ? Your KERN specialist dealer will be pleased to assist you.

Your KERN specialist dealer:

KERN – Professional measuring. Measuring technology and testing services from a single source

DKD-K-11801

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Member

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