Precision balances KERN PLS · PLJ

STANDARD ★★

EasyTouch

- Protective working cover included with delivery

Technical data

- Backlit LCD Graphic display, digit height 15 mm
- Dimensions weighing surface
  - Ⓐ Ø 110 mm, stainless steel
  - Ⓑ Ø 160 mm, stainless steel, see larger picture
  - Ⓒ W×D 200×175 mm, stainless steel
- Permissible ambient temperature 15 °C/35 °C

Range of precision balances with enormous weighing capacities – ideal for heavy tare containers or large samples
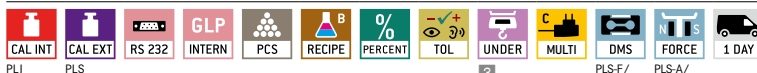
Features

- ❶ Convenient recipe-weighing: with the recipe database, in which up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
- Rapid and efficient operation thanks to the graphics display. Simple, clear user interface on the display in the following languages: DE, EN, FR, IT, ES, PT
- Dosage aid: High stability mode and other filter settings can be selected

- KERN PLJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- ❷ PLJ 2000-3A: High-quality milligram balance with enormous weighing range up to 2100 g – ideal for large samples or heavy tare containers. Large glass draught shield for easy access to the items being weighed. Weighing space W×D×H 160×170×225 mm, standard
- Ring-shaped draught shield standard, only for models with weighing plate size Ø 110 mm, weighing space Ø×H 150×60 mm

Accessories

- Protective working cover, scope of delivery 5 items, KERN PLJ-A01S05
- ❸ Hook f. underfloor weighing, KERN PLJ-A02
- Set for density determination of liquids and solids for models with [d] = 0,001 g, KERN ALT-A02
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)

STANDARD: CAL INT (PLJ) · CAL EXT (PLS) · RS 232 · INTERN · PCS · RECIPE · PERCENT · TOL · UNDER · MULTI ❸ · DMS (PLS-F/PLJ-F) · FORCE (PLS-A/PLJ-A) · 1 DAY

OPTION: ET · DAkkS +3 DAYS

FACTORY: M +3 DAYS (PLJ-M)

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Option Verification MⓉ KERN	Option DAkkS Calibr. Certificate DAkkS KERN
KERN	g	g	g	g	g			
PLS 420-3F	420	0,001	-	-	± 0,004	Ⓐ	-	963-127
PLS 720-3A	720	0,001	-	-	± 0,002	Ⓐ	-	963-103
PLS 1200-3A	1200	0,001	-	-	± 0,003	Ⓐ	-	963-103
PLS 4200-2F	4200	0,01	-	-	± 0,04	Ⓑ	-	963-127
PLS 6200-2A	6200	0,01	-	-	± 0,03	Ⓑ	-	963-104
PLS 8000-2A	8200	0,01	-	-	± 0,04	Ⓑ	-	963-104
PLS 20000-1F	20000	0,1	-	-	± 0,4	Ⓒ	–	963-128
PLJ 420-3F	420	0,001	-	-	± 0,003	Ⓐ	-	963-127
PLJ 720-3A	720	0,001	-	-	± 0,002	Ⓐ	-	963-103
PLJ 1200-3A	1200	0,001	-	-	± 0,003	Ⓐ	-	963-103
PLJ 2000-3A	2100	0,001	-	-	± 0,004	Ⓐ	-	963-103
PLJ 4200-2F	4200	0,01	-	-	± 0,04	Ⓑ	-	963-127
PLJ 6200-2A	6200	0,01	-	-	± 0,03	Ⓑ	-	963-104

Note: For applications that require verification, please order verificati on 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.

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Verification MⓉ KERN	DAkkS Calibr. Certificate DAkkS KERN
PLJ 720-3AM	720	0,001	0,01	0,02	± 0,002	Ⓐ	965-216	963-103
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,03	Ⓑ	965-217	963-104

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

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.

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

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

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:
Internal memory for complete recipes 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 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, 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
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 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