Precision balances KERN PLS · PLJ

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

Technical data

- Backlit LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
  - Ⓐ ∅ 80 mm
  - Ⓑ ∅ 110 mm
  - Ⓒ ∅ 160 mm, see larger picture
  - Ⓓ W×D 200×175 mm
- ③ KERN PLS/PLJ-F: Strain gauge
- ④ KERN PLS/PLJ-A: Force compensation
- Permissible ambient temperature
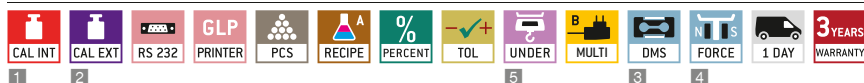 KERN PLS, PLJ: 5 °C/35 °C
  KERN PLJ-M: 15 °C/30 °C

Features

- Ⓐ **PLJ 2000-3A high-quality milligram balance with enormous weighing range up to 2100 g** – ideal for large samples or heavy tare containers
- **Ergonomically optimised keypad** for left and righthanded users
- ① 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
- ② KERN PLS: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see *test weights*
- **Draught shield** standard for models with weighing plate size Ⓐ, weighing space ∅×H 60×150 mm

Accessories

- **Protective working cover**, standard, can be re-ordered, scope of delivery: 5 items, KERN PLJ-A01S05
- ⑤ **Hook for underfloor weighing**, optional, KERN PLJ-A02
- **Set for density determination** of liquids and solids with density ≤/≥ 1 for models with
  [d] = 0,001 g, KERN ALT-A02
  [d] = 0,01 g, KERN PLT-A01
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD												OPTION	FACTORY
CAL INT ①	CAL EXT ②	RS 232	GLP PRINTER	PCS	RECIPE	PERCENT	TOL	UNDER ⑤	MULTI	DMS ③	FORCE ④	1 DAY	3 YEARS WARRANTY	DAkkS +3 DAYS	M +3 DAYS PLJ-M

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate		Options	
								Verification	DAkkS Calibr. Certificate
KERN	g	g	g	g	g			M Ⅱ KERN	DKD KERN
PLS 420-3F	420	0,001	-	-	± 0,004	Ⓐ		-	963-127
PLS 720-3A ⑤	720	0,001	-	-	± 0,002	Ⓐ		-	963-127
PLS 1200-3A ⑤	1200	0,001	-	-	± 0,003	Ⓐ		-	963-127
PLS 4200-2F ⑤	4200	0,01	-	-	± 0,04	Ⓒ		-	963-127
PLS 6200-2A ⑤	6200	0,01	-	-	± 0,03	Ⓒ		-	963-128
PLS 8000-2A ⑤	8200	0,01	-	-	± 0,04	Ⓒ		-	963-128
PLS 20000-1F ⑤	20000	0,1	-	-	± 0,4	Ⓒ		-	963-128
PLJ 420-3F	420	0,001	-	-	± 0,003	Ⓐ		-	963-127
PLJ 720-3A ⑤	720	0,001	-	-	± 0,002	Ⓐ		-	963-127
PLJ 1200-3A ⑤	1200	0,001	-	-	± 0,003	Ⓐ		-	963-127
PLJ 2000-3A ⑤	2100	0,001	-	-	± 0,004	Ⓐ		-	963-127
PLJ 3000-2FM*	3100	0,01	-	-	± 0,03	Ⓑ	🔴	-	963-127
PLJ 4200-2F	4200	0,01	-	-	± 0,04	Ⓑ		-	963-127
PLJ 6200-2A ⑤	6200	0,01	-	-	± 0,03	Ⓑ		-	963-128
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.									
PLJ 720-3AM	720	0,001	0,01	0,02	± 0,002	Ⓑ		965-216	963-127
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,03	Ⓑ		965-217	963-128

❗ *ONLY WHILE STOCKS LAST !   🔴 Price reduction

KERN Pictograms:

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

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

Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc. *(MEMORY)*

Alibi memory: Electronic archiving of weighing results, complying with the 2014/31/EU standard. *(ALIBI)*

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

RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance. *(RS 485)*

USB data interface: To connect the balance to a printer, PC or other peripherals. *(USB)*

Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals. *(BT)*

WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals. *(WLAN)*

Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc. *(SWITCH)*

Interface for second balance: For direct connection of a second balance. *(DUAL)*

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

Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module. *(RC)*

GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection. *(GLP INTERN)*

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

Piece counting: Reference quantities selectable. Display can be switched from piece to weight. *(PCS)*

Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total). *(RECIPE A)*

Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. *(RECIPE B)*

Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition. *(RECIPE C)*

Totalising level A: The weights of similar items can be added together and the total can be printed out. *(SUM A)*

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

Weighing units: Can be switched to e.g. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details. *(UNIT)*

Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning. *(TOL)*

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

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

ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device. *(ATEX)*

Stainless steel: The balance is protected against corrosion. *(INOX)*

Suspended weighing: Load support with hook on the underside of the balance. *(UNDER)*

Battery operation: Ready for battery operation. The battery type is specified for each device. *(BATT)*

Rechargeable battery pack: Rechargeable set. *(ACCU)*

Universal mains adapter: with universal input and optional input socket adapters for
A) EU, GB
B) EU, GB, CH, USA
C) EU, GB, CH, USA, AUS *(MULTI)*

Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available. *(230 V)*

Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request. *(230 V)*

Weighing principle: Strain gauge Electrical resistor on an elastic deforming body. *(DMS)*

Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate. *(T-FORK)*

Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings. *(FORCE)*

Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision. *(SC TECH)*

Verification possible: The time required for verification is specified in the pictogram. *(M +3 DAYS)*

DAkkS calibration possible (DKD): The time required for DAkkS calibration is shown in days in the pictogram. *(DAkkS +3 DAYS)*

Package shipment: The time required for internal shipping preparations is shown in days in the pictogram. *(1 DAY)*

Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram. *(2 DAYS)*

Warranty: The warranty period is shown in the pictogram. *(3 YEARS WARRANTY)*

KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the 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-measurement 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, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

Your KERN specialist dealer: