

Precision balances KERN PLS · PLJ



Technical data

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

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

Features

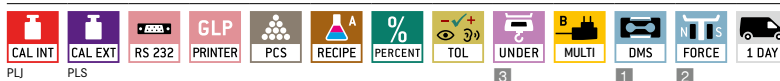
- **A** KERN PLJ 2000-3A: **High-quality milligram balance with enormous weighing capacity up to 2100 g** – ideal for large samples or heavy tare containers
- **Ergonomically optimised keypad** for left and righthanded users
- KERN PLJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use

- Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- 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 **B**, weighing space Ø×H 60×150 mm
- **Protective working cover** included with delivery

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PLJ-A01S05
- **Hook for underfloor weighing**, KERN PLJ-A02
- **Set for density determination** of liquids and solids with density $\leq/\geq 1$ 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



Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code QUA LITY	Option		
								Verification		DAkKS Calibr. Certificate
								MU KERN		
KERN										
PLS 420-3F	420	0,001	-	-	± 0,004	B	BA	-		963-127
PLS 720-3A	720	0,001	-	-	± 0,002	B	BC	-		963-127
PLS 1200-3A	1200	0,001	-	-	± 0,003	B	BC	-		963-127
PLS 4200-2F	4200	0,01	-	-	± 0,04	C	BA	-		963-127
PLS 6200-2A	6200	0,01	-	-	± 0,03	C	BC	-		963-128
PLS 8000-2A	8200	0,01	-	-	± 0,04	C	BC	-		963-128
PLS 20000-1F	20000	0,1	-	-	± 0,4	D	BA	-		963-128
PLJ										
PLJ 420-3F	420	0,001	-	-	± 0,003	B	BA	-		963-127
PLJ 720-3A	720	0,001	-	-	± 0,002	B	CC	-		963-127
PLJ 1200-3A	1200	0,001	-	-	± 0,003	B	CC	-		963-127
PLJ 2000-3A	2100	0,001	-	-	± 0,004	A	CC	-		963-127
PLJ 3000-2FM*	3100	0,01	-	-	± 0,03	C	BA	-		963-127
PLJ 4200-2F	4200	0,01	-	-	± 0,04	C	BA	-		963-127
PLJ 6200-2A	6200	0,01	-	-	± 0,03	C	CC	-		963-128
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 720-3AM	720	0,001	0,01	0,02	± 0,002	B	CC	965-216		963-127
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,03	C	CC	965-217		963-128

* ONLY WHILE STOCKS LAST!

Pictograms

Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	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	Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram.
Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required		Stainless steel: The balance is protected against corrosion
Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone		Suspended weighing: Load support with hook on the underside of the balance
Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	Battery operation: Ready for battery operation. The battery type is specified for each device
Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	GLP/ISO log: With weight, date and time. Only with KERN printers	Rechargeable battery pack: Rechargeable set
Data interface RS-232: To connect the balance to a printer, PC or network	Piece counting: Reference quantities selectable. Display can be switched from piece to weight	Universal mains adapter: with universal input and optional input socket adapters for A) EU, CH; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS
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	Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available
USB data interface: To connect the balance to a printer, PC or other peripherals	Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals	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	Weighing principle: Strain gauges Electrical resistor on an elastic deforming body
WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals		Weighing principle: Tuning fork: A resonating body is electromagnetically excited, causing it to oscillate
Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	Totalising level A: The weights of similar items can be added together and the total can be printed out	Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings
Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	Percentage determination: Determining the deviation in % from the target value (100 %)	Weighing principle: Single cell technology: Advanced version of the force compensation principle with the highest level of precision
Interface for second balance: For direct connection of a second balance	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	Verification possible: The time required for verification is specified in the pictogram
Network interface: For connecting the scale to an Ethernet network	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	DAKkS calibration possible: The time required for DAKkS calibration is shown in days in the pictogram
Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module	Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	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

*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license. Other trademarks and trade names are those of their respective owners.

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: