

Precision Balances KERN PLS · PLJ



- Protective working cover included with delivery

### Technical data

- Backlit LCD graphic display, digit height 15 mm
- Dimensions weighing surface, stainless steel  
**A**  $\varnothing$  110 mm **B**  $\varnothing$  160 mm **C** WxD 200x175 mm
- Permissible ambient temperature 15 °C/35 °C

### Accessories

- Protective working cover, scope of delivery 5 items, KERN PLJ-A01S05
- **B** Hook for 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), for details see page 230

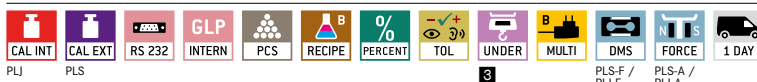
## High-quality precision scale with comfortable graphic display and enormous weighing range

### Features

- **1** Convenient recipe-weighing: with the recipe database, 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
- Dosage aid: High stability mode and other filter settings can be selected
- 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

- KERN PLJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for applications which require verification, such as gold and jewellery purchasing
- **2** 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 WxDxH 160x170x225 mm
- Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space  $\varnothing$ xH 150x60 mm

### STANDARD



### OPTION



### FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Overall dimensions WxDxH mm	Weighing plate	Verification	Options
								MD KERN	DAkks Calibr. Certificate
									DAkks KERN
<b>KERN</b>									
PLS 420-3F	420	0,001	-	-	$\pm$ 0,004	210x340x160	<b>A</b>	-	963-127
PLS 720-3A	720	0,001	-	-	$\pm$ 0,002	210x340x160	<b>A</b>	-	963-103
PLS 1200-3A	1200	0,001	-	-	$\pm$ 0,003	210x340x160	<b>A</b>	-	963-103
PLS 4200-2F	4200	0,01	-	-	$\pm$ 0,04	210x340x120	<b>B</b>	-	963-127
PLS 6200-2A	6200	0,01	-	-	$\pm$ 0,03	210x340x120	<b>B</b>	-	963-104
PLS 8000-2A	8200	0,01	-	-	$\pm$ 0,04	210x340x120	<b>B</b>	-	963-104
PLS 20000-1F	20000	0,1	-	-	$\pm$ 0,4	210x340x120	<b>C</b>	-	963-128
<b>PLJ</b>									
PLJ 420-3F	420	0,001	-	-	$\pm$ 0,003	210x340x160	<b>A</b>	-	963-127
PLJ 720-3A	720	0,001	-	-	$\pm$ 0,002	210x340x160	<b>A</b>	-	963-103
PLJ 1200-3A	1200	0,001	-	-	$\pm$ 0,003	210x340x160	<b>A</b>	-	963-103
PLJ 2000-3A	2100	0,001	-	-	$\pm$ 0,004	210x340x330	<b>A</b>	-	963-103
PLJ 4200-2F	4200	0,01	-	-	$\pm$ 0,04	210x340x120	<b>B</b>	-	963-127
PLJ 6200-2A	6200	0,01	-	-	$\pm$ 0,05	210x340x120	<b>B</b>	-	963-104

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

PLJ 720-3AM	720	0,001	0,01	0,02	$\pm$ 0,002	210x340x160	<b>A</b>	965-216	963-103
PLJ 6200-2AM	6200	0,01	0,1	0,5	$\pm$ 0,05	210x340x120	<b>B</b>	965-217	963-104

**1** ONLY WHILE STOCKS LAST

**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

**EasyTouch**  
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, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort

**RS-232 Data interface**  
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 intern**  
The balance displays weight, date and time, independent of a printer connection

**GLP/ISO log Printer**  
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, US  
C) EU, CH, GB, US, 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

**Conformity Assessment**  
The time required for conformity assessment 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

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