



User-friendly operation modes, as well as internal automatic 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 very small parts



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

# Precision balances KERN PLS · PLJ



## Features

- **1 Ergonomically optimised keypad** for left and righthanded users
- **Glass draught shield**, standard for models with weighing plate size **A**. Removable metal cover with pipette opening, weighing space ØxH 150x60 mm
- **2 KERN PLJ: Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- **3 KERN PLS: Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 165 ff.

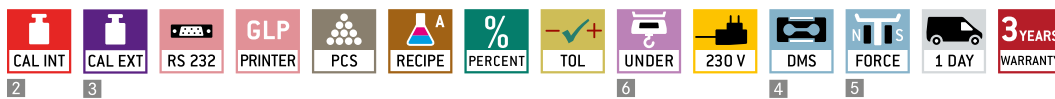
## Technical data

- Backlit LCD display, digit height 17 mm
- Weighing plate dimensions, stainless steel, **A** Ø 110 mm  
**B** Ø 160 mm, see enlarged picture  
**C** WxD 200x175 mm
- Overall dimensions WxDxH  
without draught shield: 210x340x100 mm  
with draught shield: 210x340x160 mm
- **4** KERN PLS/PLJ-F: Strain gauge
- **5** KERN PLS/PLJ-A: Force compensation
- Net weight approx. 4,6 kg
- Permissible ambient temperature 5 °C / 35 °C

## Accessories

- **Protective working cover** standard, can be retrofitted, KERN PLJ-A01
- **6 Hook for underfloor weighing** of hanging loads, not included, KERN PLJ-A02
- **Set for density determination** of liquids and solids with density  $\leq/\geq 1$ . The density, is indicated directly on the display. On all models with readout [d] = 0,001 g, KERN ALT-A02  
on all models with readout [d] = 0,01 g, KERN PLT-A01
- **RS-232/Ethernet adapter** to connect balances with an RS-232 interface to a network, using Ethernet, details see page 158, KERN YKI-01
- **Suitable test weights**, also with calibration certificate, see the internet
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD



OPTION

FACTORY


































Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Weighing plate	Net weight approx. kg	Options			
									Verification	DAKKS-Calibr. Certificate		
<b>KERN</b>									<b>MD</b>		<b>DAKKS</b>	
											<b>KERN</b>	
PLS 420-3F	420	0,001	-	0,001	± 0,004	0,005	A	2,8	-	-	963-127	
PLS 720-3A <sup>6</sup>	720	0,001	-	0,001	± 0,002	0,005	A	4,6	-	-	963-127	
PLS 1200-3A <sup>6</sup>	1200	0,001	-	0,001	± 0,003	0,005	A	4,6	-	-	963-127	
PLS 4200-2F <sup>6</sup>	4200	0,01	-	0,01	± 0,04	0,05	B	2,9	-	-	963-127	
PLS 6200-2A <sup>6</sup>	6200	0,01	-	0,01	± 0,03	0,05	B	4,6	-	-	963-128	
PLS 8000-2A <sup>6</sup>	8200	0,01	-	0,01	± 0,04	0,01	B	4,6	-	-	963-128	
PLS 20000-1F <sup>6</sup>	20000	0,1	-	0,1	± 0,4	0,5	C	3,2	-	-	963-128	
<b>PLJ</b>												
PLJ 420-3F	420	0,001	-	0,001	± 0,003	0,005	A	3,6	<sup>1</sup>	-	963-127	
PLJ 720-3A <sup>6</sup>	720	0,001	-	0,001	± 0,002	0,001	A	4,9	<sup>1</sup>	-	963-127	
PLJ 1200-3A <sup>6</sup>	1200	0,001	-	0,001	± 0,003	0,005	A	4,9	-	-	963-127	
PLJ 4200-2F	4200	0,01	-	0,02	± 0,04	0,05	B	3,8	<sup>1</sup>	-	963-127	
PLJ 6200-2A <sup>6</sup>	6200	0,01	-	0,01	± 0,03	0,01	B	5,2	<sup>1</sup>	-	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	0,001	± 0,002	0,001	A	4,9		965-216		963-127
PLJ 6200-2AM	6200	0,01	0,1	0,01	± 0,03	0,01	B	5,2		965-217		963-128

<sup>1</sup> Price reduction

# KERN Pictograms

 <b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).	 <b>Recipe level A:</b> Separate memory for the weight of the tare container and the recipe ingredients (net total).	 <b>Suspended weighing:</b> Load support with hook on the underside of the balance.
 <b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required.	 <b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device.
 <b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 <b>Recipe level C:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation functions.	 <b>Rechargeable battery pack:</b> Rechargeable set.
 <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network.	 <b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out.	 <b>Mains adapter:</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 <b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 <b>Totalising level C:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation.	 <b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 <b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals.	 <b>Strain gauges:</b> Electrical resistor on an elastic deforming body.	
 <b>Bluetooth data interface:</b> To transfer data from the balance to a printer, PC or other peripherals.	 <b>Tuning fork principle:</b> A resonating body is electromagnetically excited, causing it to oscillate.	
 <b>WLAN data interface:</b> To transfer data from the balance to a printer, PC or other peripherals.	 <b>Percentage determination:</b> Determining the deviation in % from the target value (100 %).	 <b>Electromagnetic force compensation:</b> Coil inside a permanent magnet. For the most accurate weighings.
 <b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	 <b>Weighing units:</b> 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.	 <b>Single cell technology:</b> Advanced version of the force compensation principle with the highest level of precision.
 <b>Interface for second balance:</b> For direct connection of a second balance.	 <b>Weighing with tolerance range:</b> Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.	 <b>Verification possible:</b> The time required for verification is specified in the pictogram.
 <b>Network interface:</b> For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.	 <b>Vibration-free weighing:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.	 <b>DAkkS calibration possible:</b> The time required for DAkkS calibration is shown in days in the pictogram.
 <b>GLP/ISO log:</b> The balance displays the weight, date and time, regardless of a printer connection.	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram. For details see the glossary.	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
 <b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers, see "Accessories"	 <b>ATEX explosion protection:</b> Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.	 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
 <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight.	 <b>Stainless steel:</b> The balance is protected against corrosion.	 <b>Warranty:</b> The warranty period is shown in the pictogram.

## 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 - 2000 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 6 t
- DAkkS 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
- DAkkS calibration certificates in the following languages D, GB, F, I, E, NL

## Your KERN specialist dealer: