

# Precision balance KERN PLS · PLJ



02

## Features

- Dual range balances (D = Dual). The total weighing range is subdivided into 2 sub-ranges and begins with a high resolution readout in the fine weighing range. If this range is exceeded the balance automatically switches to the higher weighing range with the lower resolution readout.
- **1** Ergonomically optimised keypad for left and righthanded users
- Glass draught guard, standard for models with weighing plate sizes **A**. Removable metal cover with pipette opening. Weighing space ØxH 150x60 mm
- **2** only PLJ: Automatic internal adjustment
- **3** only PLS: Adjusting program CAL, for quick setting of the balance accuracy, external test weights at an additional price
- UNITS: Further weighing units see the internet

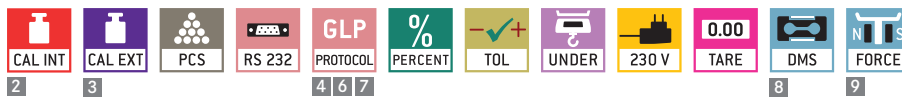
## Options

- Protective working cover standard, can be reordered, **KERN PLJ-A01**
- Hook for underfloor weighing to weigh hanging loads, **KERN PLJ-A02**
- **4** Standard printer, **KERN YKB-01N**
- **5** Label printer, **KERN YKL-01**
- **6** Statistics printer, **KERN YKT-01**
- **7** Statistics printer, **KERN YKS-01**

## Technical data

- Backlit LCD, digit height 17 mm
- Dimensions of weighing plate (stainless steel):
  - A** ø 110 mm
  - B** ø 160 mm, see larger picture
  - C** 200x175 mm
- Overall dimensions WxDxH for models with weighing plate sizes
  - A** 210x340x160 mm
  - B** 210x340x100 mm
  - C** 210x340x100 mm
- **B** Weighing principle: Strain gauge (only PLS-F and PLJ-F)
- **9** Weighing principle: Force compensation (only PLS-A and PLJ-A)
- Net weight approx. 4,5 kg
- Permissible ambient temperature 5°C / 35°C

### STANDARD



### STANDARD



### OPTION


























Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Option	
							DKD	Kalibr. Certificate
<b>KERN</b>							DKD	KERN
PLS 310-3F	310	0,001	0,002	± 0,003	0,005	A	963-127	
PLS 510-3A	510	0,001	0,002	± 0,002	0,005	A	963-127	
PLS 720-3A	720	0,001	0,001	± 0,002	0,005	A	963-127	
PLS 1200-3A	1200	0,001	0,001	± 0,003	0,005	A	963-127	
PLS 1200-3DA	720   1200	0,001   0,01	0,001   0,01	± 0,002   ± 0,02	0,005	A	963-127	
PLS 3100-2F	3100	0,01	0,02	± 0,03	0,05	B	963-127	
PLS 4200-2A	4200	0,01	0,01	± 0,02	0,05	B	963-127	
PLS 6200-2A	6200	0,01	0,01	± 0,03	0,05	B	963-128	
PLS 6200-2DA	4200   6200	0,01   0,1	0,01   0,1	± 0,02   ± 0,2	0,05	B	963-128	
PLS 20000-1F	20000	0,1	0,1	± 0,4	0,5	C	963-128	
<b>PLJ 310-3F</b>	310	0,001	0,001	± 0,003	0,005	A	963-127	
<b>PLJ 720-3A</b>	720	0,001	0,001	± 0,002	0,005	A	963-127	
<b>PLJ 1200-3A</b>	1200	0,001	0,001	± 0,003	0,005	A	963-127	
<b>PLJ 1200-3DA</b>	720   1200	0,001   0,01	0,001   0,01	± 0,003   ± 0,03	0,005	A	963-127	
<b>PLJ 3100-2F</b>	3100	0,01	0,01	± 0,03	0,05	B	963-127	
<b>PLJ 6200-2A</b>	6200	0,01	0,01	± 0,03	0,05	B	963-128	
<b>PLJ 6200-2DA</b>	4200   6200	0,01   0,1	0,01   0,1	± 0,03   ± 0,3	0,05	B	963-128	

■ Price reduction

■ New model

# KERN Pictograms

 <b>Internal adjusting (CAL):</b> Quick setting of the balance's accuracy with internal adjusting weight (motordriven).	 <b>Adjusting program (CAL):</b> For quick setting of the balance's accuracy. External adjusting weight required.	 <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>Rechargeable battery pack:</b> rechargeable set.	 <b>Power supply:</b> integrated in balance. 230V/50Hz in Germany. On request GB or USA version.	 <b>Mains adapter:</b> 230V/50Hz in standard version for Germany. On request GB or USA version.
 <b>Battery operation:</b> The battery type is specified for each device.	 <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	 <b>Spray and dust protection IPxx</b> The type of protection is shown by the pictogram. For details see the glossary.
 <b>Data interface:</b> The type of interface is shown by the pictogram. See the glossary for further details.	 <b>GLP/ISO record keeping</b> of weighing data with date, time and identification-no. Only with printers from KERN.	 <b>Tare:</b> put back displayed value to "0" during weighing process, e.g. to add or remove weighing material from a container.
 <b>Animal weighing program:</b> Strong vibrations are filtered out to determine a stable weighing result.	 <b>Stainless steel:</b> the balance is protected against corrosion.	 <b>Warranty:</b> The warranty period is shown in the pictogram.
 <b>Net-total weighing:</b> weight of tare cup and weight of components memorized in two separate stores.	 <b>Suspended weighing:</b> load support with hook on the underside of the balance.	 <b>Verification possible.</b> The time required for verification is specified in the pictogram.
 <b>Percentage determination:</b> Displays the deviation from the reference weight (100%) in % instead of grams.	 <b>Weighing with tolerance range:</b> Upper and lower limiting can be programmed individually, e.g. dosing/sorting.	 <b>DKD calibration possible.</b> The time required for DKD calibration is specified in the pictogram.
 <b>Package shipment</b> via courier.	 <b>Pallet shipment</b> via freight forwarder.	<b>[DMS]</b> For details on weighing technologies, see the glossary.

## Precision is our business

To ensure the high level of precision of your balance, KERN offers the appropriate test weight package for your balance. This consists of the test weight, box and DKD calibration certificate, as proof of its accuracy. The best way to ensure proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, and M3 with weights from 1 mg to 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe.  
(DKD = German Calibration Service)

Thanks to the high level of automation, we can carry out DKD calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

### Range of services:

- DKD calibration of balances with a maximum load of up to 6 t
- DKD 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
- DKD calibration certificates in the following languages  
D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponding test weight or the calibration service? Your KERN specialist dealer will be pleased to assist you.

## Your KERN specialist dealer:

**KERN – Professional measuring. Measuring technology and testing services from a single source**



German Excellence Group  
Member