

Precision balances KERN PLJ-C · PLJ-G



Process reliability thanks to automatic internal adjustment and EC type approval [M]

Features

- **Automatic internal adjustment** in the case of temperature change  $\geq 3\text{ }^{\circ}\text{C}$  and time-controlled every 3 hours
- **Draught shield** standard (on all models with readout [d] = 0,001 g). Weighing space WxDxH 140x140x65 mm

PLJ -C:

- **2** Weighing principle: Force compensation
- **Alibi memory:** paperless archive of weighing results, see page 215
- **Internal memory** for up to 999 weighing results, 1000 items, 100 container weights, 100 users
- **USB interface** for transferring weighing data to the PC, printer, USB sticks etc.

PLJ -G:

- **8** Weighing principle: Strain gauge
- Rechargeable battery pack internal, standard, operating time up to 35 h, charging time approx. 12 h

Technical data

- Backlit LCD display  
PLJ-C: digit height 17 mm  
PLJ-G: digit height 19 mm
- Weighing plate dimensions, stainless steel, WxD  
**A** 128x128 mm  
**B** 195x195 mm, see enlarged picture
- Overall dimensions WxDxH  
without draught shield 206x335x85 mm  
incl. draught shield 206x335x157 mm
- Net weight approx. 3,6 kg  
(incl. draught shield approx. 4 kg)
- Permissible ambient temperature 15  $^{\circ}\text{C}$  / 30  $^{\circ}\text{C}$



Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN ALS-A02S05
- **5 Set for density determination** of liquids and solids with density  $\geq 1$ , only suitable for models with readout [d] = 0,001 g. The density is indicated directly on the display, sim. to illustration. For interesting facts about density determination see page 214, KERN PLS-A01
- only PLJ-C: **WLAN interface** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smart-phones, must be ordered at purchase, please ask for delivery time, KERN PLJ-A06
- only PLJ-C: **Alibi memory software** for viewing and saving data from the alibi memory onto a PC connected to the system, KERN PET-A16
- **Suitable test weights**, also with calibration certificate see page 188
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL INT  
only PLJ-C

ALIBI  
only PLJ-C

RS 232  
only PLJ-C

USB  
only PLJ-C

GLP INTERN  
only PLJ-C

GLP PRINTER  
only PLJ-G

PCS

RECIPE

UNIT

TOL

MOVE

UNDER

ACCU

MULTI

DMS

FORCE

1 DAY WARRANTY

3 YEARS WARRANTY

DAkkS +3 DAYS

WLAN

M +3 DAYS

OPTIONFACTORY

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Repro-ducibility	Linearity	Min. piece weight [Counting]	Weighing plate	Options			
								Verification		DAkkS Calibr. Certificate	
								MU KERN		DKD KERN	
KERN	g	g	g	g	g	g/piece					
PLJ 300-3CM	360	0,001	0,01	0,001	$\pm 0,004$	0,005	A	965-216		963-127	
PLJ 600-3CM	600	0,001	0,01	0,002	$\pm 0,004$	0,005	A	965-216		963-127	
PLJ 700-3CM	750	0,001	0,01	0,02	$\pm 0,004$	0,005	A	965-216		963-127	
PLJ 600-2GM	600	0,01	0,1	0,02	$\pm 0,02$	0,05	A	965-216		963-127	
PLJ 3000-2CM	3500	0,01	0,1	0,01	$\pm 0,04$	0,05	B	965-216		963-127	
PLJ 6000-1GM	6000	0,1	1	0,2	$\pm 0,2$	0,5	B	965-217		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.

# KERN Pictograms:



**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.



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



**Alibi memory:** Electronic archiving of weighing results, complying with the 2009/23/EC standard.



**Data interface RS-232:** 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. High tolerance against electromagnetic disturbance.



**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.



**WLAN 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.



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



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



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



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



**GLP/ISO log:** 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:** Separate memory for the weight of the tare container and the recipe ingredients (net total).



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



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



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



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



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



**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.



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



**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.



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



**Stainless steel:** The balance is protected against corrosion.



**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 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



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



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



**Weighing principle: Strain gauge**  
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.



**Verification possible:**  
The time required for verification is specified in the pictogram.



**DAKkS calibration possible (DKD):** The time required for DAKkS 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.



**Warranty:** The warranty period is shown in the pictogram.

## 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 - 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 50 t
- DAKkS calibration of weights in the range of 1 mg – 2500 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, PL

## Your KERN specialist dealer: