Precision Balances KERN PLS · PLJ

STANDARD ★★
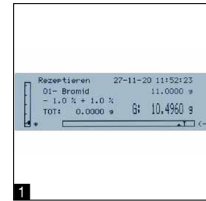
• Protective working cover included with delivery

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

Technical data

• Backlit LCD graphic display, digit height 15 mm
• Dimensions weighing surface, stainless steel
  A Ø 110 mm B Ø 160 mm C W×D 200×175 mm
• Permissible ambient temperature 15 °C/35 °C

Accessories

• Protective working cover, scope of delivery 5 items, KERN PLJ-A01S05
• 3 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
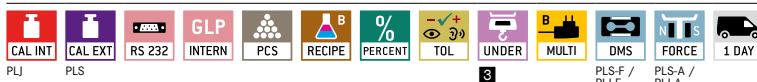
Features

• 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 W×D×H 160×170×225 mm
• Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 150×60 mm

	STANDARD									OPTION	FACTORY
CAL INT	CAL EXT	RS 232	INTERN	PCS	RECIPE	PERCENT	TOL	UNDER	MULTI	DMS	FORCE	1 DAY	DAkkS +3 DAYS	M +3 DAYS
PLJ	PLS							3		PLS-F / PLJ-F	PLS-A / PLJ-A		PLJ-M

Model KERN	Weighing capacity [Max] g	Read-ability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Overall dimensions W×D×H mm	Weighing plate	Verification M KERN	Options DAkkS Calibr. Certificate DAkkS KERN
PLS 420-3F	420	0,001	-	-	± 0,004	210×340×160	A	-	963-127
PLS 720-3A	720	0,001	-	-	± 0,002	210×340×160	A	-	963-103
PLS 1200-3A	1200	0,001	-	-	± 0,003	210×340×160	A	-	963-103
PLS 4200-2F	4200	0,01	-	-	± 0,04	210×340×120	B	-	963-127
PLS 6200-2A	6200	0,01	-	-	± 0,03	210×340×120	B	-	963-104
PLS 8000-2A	8200	0,01	-	-	± 0,04	210×340×120	B	-	963-104
PLS 20000-1F	20000	0,1	-	-	± 0,4	210×340×120	C	-	963-128
PLJ 420-3F	420	0,001	-	-	± 0,003	210×340×160	A	-	963-127
PLJ 720-3A	720	0,001	-	-	± 0,002	210×340×160	A	-	963-103
PLJ 1200-3A	1200	0,001	-	-	± 0,003	210×340×160	A	-	963-103
PLJ 2000-3A	2100	0,001	-	-	± 0,004	210×340×330	A	-	963-103
PLJ 4200-2F	4200	0,01	-	-	± 0,04	210×340×120	B	-	963-127
PLJ 6200-2A	6200	0,01	-	-	± 0,05	210×340×120	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.

Model KERN	Weighing capacity [Max] g	Read-ability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Overall dimensions W×D×H mm	Weighing plate	Verification M KERN	Options DAkkS Calibr. Certificate DAkkS KERN
PLJ 720-3AM	720	0,001	0,01	0,02	± 0,002	210×340×160	A	965-216	963-103
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,05	210×340×120	B	965-217	963-104

! 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