BALANCES & TEST SERVICE 2024

Precision balances

Precision Balances KERN PNS · PNI



The new standard in the laboratory with robust tuning fork weighing system, also with optional verification

Features

- · KERN PNS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see Test Weights
- · KERN PNJ: 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
- · High-quality tuning fork weighing system for rapid display of the weight, very precise dispensing and a high level of mechanical robustness
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value

- · Compact size, practical for small spaces
- · Large, shock proof weighing plate made of stainless steel

- A Large glass draught shield with 3 sliding doors for easy access to the items being weighed: for models with weighing plate size **A**, Weighing space W×D×H 172×171×160 mm
- · Protective working cover included with delivery

Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel A Ø 140 mm
- B W×D 190×190 mm
- Overall dimensions W×D×H
- A 196×293×266 mm
- **B** 196×293×89 mm
- Permissible ambient temperature 5 °C/40 °C

Accessories

STANDARD $\star\star$

- · Protective working cover, scope of delivery 5 items, KERN PNJ-A01S05
- 1 Gemstones plate, aluminium with practical spout, W×D×H 130×80×30 mm, KERN AEJ-A05
- 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
- · Further details, plenty of further accessories and suitable printers see Accessories

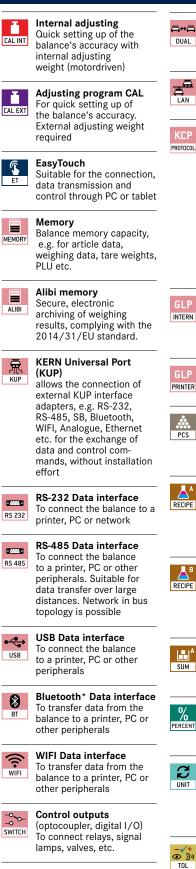
STANDARD										OPTION	FACTORY	
CAL INT PNJ	CAL EXT PNS	RS 232	GLP INTERN	PCS	% PERCENT		-√+ ⊙ TOL	MULTI	(((U))) T-FORK	1 DAY	DAkkS +3 DAYS	+3 DAYS PNJ

Model	Weighing	Readability	Verification	Minimal	Linearity	Weighing	Net weight	Options		
	capacity		value	load		plate		Verification	DAkkS Calibr. Certificate	
	[Max]	[d]	[e]	[Min]			kg	M	DAkkS	
KERN	g	g	g	g	g			KERN	KERN	
PNS 600-3	620	0,001	-	-	± 0,004	Α	2,2	-	963-103	
PNS 3000-2	3200	0,01	-	-	± 0,02	В	2,8	-	963-127	
PNS 12000-1	12000	0,1	-	-	± 0,2	В	2,8	-	963-128	
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.										
PNJ 600-3M	620	0,001	0,01	0,02	± 0,004	А	4,2	965-216	963-103	
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	В	3,6	965-216	963-127	
PNJ 12000-1M	12000	0,1	1	5	± 0,2	В	3,8	965-217	963-128	



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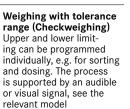
KERN Pictograms





Analogue interface to connect a suitable peripheral device for analogue processing of the measurements





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

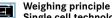
Weighing principle





Weighing principle Electromagnetic force compensation

Coil inside a permanent magnet. For the most accurate weighings



Single cell technology Advanced version of the force compensation principle with the highest level of precision

Conformity Assessment Μ The time required for +3 DAYS conformity assessment is specified in the pictogram

DAkkS calibration DAkkS

possible (DKD) The time required for DAkkS calibration is shown in days in the pictogram



1 DAY

+3 DAYS

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

, È The time required for 2 DAYS internal shipping preparations is shown in days in the pictogram

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