## **BALANCES & TEST SERVICE 2024**

Precision balances

Precision Balances KERN PBS · PBJ



# Multifunctional laboratory balance with single-cell weighing system, verification optional

#### Features

- KERN PBS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see *Test Weights*
- KERN PBJ: Internal adjustment in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- · Metal housing: robust and sturdy
- Dosage aid: High stability mode and other filter settings can be selected
- Weighing with tolerance range (checkweighing): a visual signal helps with portioning, dispensing or grading
- · Summation of weight values

STANDARD

- Identification number: 4 digits, printed on calibration protocol freely programmable
- Automatic data output to the PC/printer each time the balance is steady

- Draught shield standard for models with weighing plate size A, weighing space
   W×D×H 180×193×87 mm
- · Protective working cover included with delivery

#### **Technical data**

- Large backlit LCD display, Digit height 14 mm
- Dimensions weighing surface, stainless steel
   W×D 112×112 mm
- **B** W×D 180×190 mm, see larger picture
- Overall dimensions (without draught shield)
  W×D×H: 210×330×70 mm
- Net weight approx. 4,2 kg
- + Permissible ambient temperature 10  $^{\circ}\text{C}/\text{30}$   $^{\circ}\text{C}$









- Single-cell advanced technology:
- Fully automatic manufactured weighing cell from one piece of material
- · Stable temperature behaviour
- Short stabilisation time: steady weight values
- within approx. 3 s under laboratory conditions
- Shock proof construction
- High corner load performance

### Accessories

- Protective working cover, scope of delivery: 5 items, for models with weighing plate size
- A KERN PBS-A01S05
- B KERN PBS-A02S05
- Set for density determination of liquids and solids with density ≥ 1, for models with weighing plate size
- A KERN PBS-A04
- B KERN PBS-A03

FACTORY

- 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)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDAR	RD													OPTION	
	i i	• 699. •	GLP		<b></b>	%	C	-√+ ⊙	^-–	è	B			DAkkS	
CAL INT	CAL EXT	RS 232	INTERN	PCS	RECIPE	PERCENT	UNIT	TOL	MOVE	UNDER	MULTI	SC TECH	1 DAY	+3 DAYS	Ŀ
PBI	PBS											2			F

Model	Weighing	Readability	Verification	Minimal	Linearity	Weighing	Net	Options		
	capacity		value	load		plate	weight	Verification DAkkS Calibr. Certificate		
	[Max]	[d]	[e]	[Min]				M DAkkS		
KERN	g	g	g	g	g		kg	KERN KERN		
PBS 620-3M	620	0,001	-	-	± 0,002	А	3,2	- 963-103		
PBS 4200-2M	4200	0,01	-	-	± 0,02	В	3,2	- 963-127		
PBS 6200-2M	6200	0,01	-	-	± 0,02	В	3,4	- 963-104		

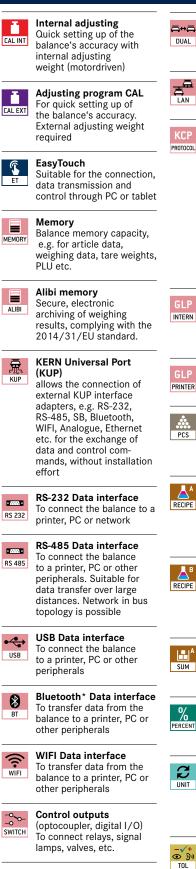
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

	The initial veri	fication is no	ot possible a	fter deliver	y. Please inforr	n the full	address of	the location of use for the initial	verification.	
PBJ 620-3M	620	0,001	0,01	0,1	± 0,002	А	4,2	965-201 🕕	963-103	
PBJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	В	5,0	965-216 🔳	963-127	
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	В	5,0	965-202 🕕	963-104	
PBJ 8200-1M	8200	0,1	1	5	± 0,2	В	5,0	965-217 💷	963-128	



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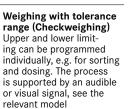
#### **KERN Pictograms**





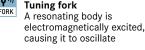
Analogue interface to connect a suitable peripheral device for analogue processing of the measurements





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

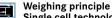
## Weighing principle





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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