KERN **PBJ 4000-2M**

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



Date of creation: 25.10.2026

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	PBJ

Measuring System	
Weighing system	Single-Cell
Weighing capacity [Max]	4200 g
USP Minimum weight of sample (k = 2, U = 0.1%)	20 g
Readability [d]	0,01 g
Automatic adjustment - Standard temperature deviation	1 °C
Automatic adjustment - Standard time interval	4 h
Reproducibility	0,01 g
Linearity	± 0,02 g
Minimum weight [Min] (verifiable)	0,5 g
Resolution	420.000
Tare range	4200 g
Adjustment options	Internal calibration (automatic)
Stabilization time	2,5 s
Eccentric loading at 1/3 [Max]	0,05 g
Weighing capacity [Max] (ct)	21000 ct
Conformity assessment possible	✓
Construction type of the scale	Single-range balance
Units	kg g mg t gn dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct lb oz tl (Cn) PCS % D mom
Units (if device is conformity assessed)	kg g ct
Default unit	g
Minimum weight [Min] (ct)	5 ct
Readability carat [d] (ct)	0,1 ct
Warm-up time	120 min

Display	
Display type	LCD
Display backlight	✓
Display digit height	14 mm
Languages of the user interface	English

Construction	
Dimension housing (W×D×H)	191×317×79 mm
Dimensions completely mounted (W×D×H)	191×317×79 mm
Dimensions weighing surface (W×D)	176×189 mm
Dimensions weighing surface	176×189 mm
Dimensions weighing platform (W×D×H)	176×189×5 mm
Material housing	cast aluminium
Material weighing plate	stainless steel
Material display housing	plastic
Material load cell(s)	aluminium
Level indicator	✓
Levelling feet adjustable	✓
Transport safety lock - bolt torque	6 Nm
Cable length	1,5 m
Load cells - number	1

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Functions	
Density determination	✓
Dispensing function	✓
Peak function	✓
PreTare function	✓
Percentage determination	✓
Standby function	✓
Sum memory function	✓
Function for averaging under unstable weighing conditions	✓
Tolerance weighing	✓
Time display	✓
Counting function	✓
Capacity - Display	✓
Tare function	manual (multi)
Underfloor weighing	Hook (included in delivery)
Counting resolution (laboratory conditions)	8.400
Smallest piece weight when piece counting - laboratory conditions	500 mg
Reference quantity	5, 10, 20, 50,100, 200
Recipe/summing level	Rez A (Net total)
Number of keys for operation	5
Smallest piece weight when piece counting - normal conditions	5 g
Tolerance weighing - type of signal	visual

Interface	
Interfaces	RS-232 standard - 2x

Power Supply	
Supplied power supply	Power supply unit
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Input voltage power supply / power [Max]	100 V - 240 V, 50 / 60 Hz
Power supply cable removable	removable
Input voltage device / power [Max]	12 V DC, 150 0mA
Power socket for mains adapter	Hollow plug, inside minus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 9,5 mm

Environmental conditions	
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Humity of environment [Max]	80 %
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

Services (optional)	
Article number for conformity assessment	965-216
Article number for DAkkS calibration	963-127
Article number for certificate of conformity	969-517

Packing & Shipping	
Delivery time	1 d
Dimensions packaging (W×D×H)	450×370×255 mm
Shipping method	Parcel service
Net weight approx.	5,0 kg
Gross weight approx.	7 kg
Shipping weight	8,5 kg
Shipping volume weight	8,5 kg

Product information	
GTIN/EAN number	4045761492790
Trade number	90160010
Warranty Time	36 mon

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Pictograms

STANDARD



OPTION



FACTORY

