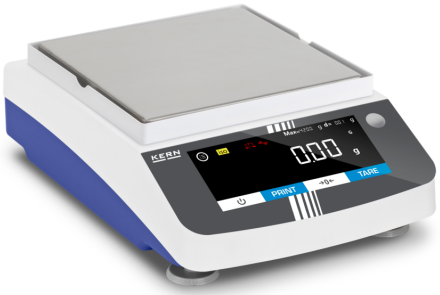
KERN **PDS 4000-2**

Precision balance with flexible functionality and touch display



Date of creation: 24.10.2026

Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	PDS

Measuring System

Weighing system	Force compensation
Weighing capacity [Max]	4200 g
USP Minimum weight of sample (k = 2, U = 0.1%)	60 g
Readability [d]	0,01 g
Reproducibility	0,03 g
Linearity	± 0,03 g
Resolution	420.000
Adjustment options	Adjusting with external weight
Recommended adjusting weight	4 kg (E2)
Possible calibration points	2 kg; 4 kg
Stabilization time	3 s
Eccentric loading at 1/3 [Max]	0,06 g
Construction type of the scale	Single-range balance
Units	kg g gn dwt tl (Tw) ozt ct lb N oz ffa
Maximum creep (15 minutes)	100 mg
Maximum creep (30 minutes)	200 mg
Default unit	g
Warm-up time	4 h

Display

Display type	LCD
Display type	LCD
Display backlight	✓
Display screen size	140×48 mm
Display segments	7
Display digit height	20 mm
Languages of the user interface	English Symbol language

Construction

Dimensions completely mounted (W×D×H)	213×322×101 mm
Dimensions weighing surface (W×D)	185×185 mm
Dimensions weighing surface	185×185 mm
Material housing	ABS plastic
Material weighing plate	stainless steel
Material display housing	glass
Level indicator	✓
Levelling feet adjustable	✓

Functions

Density determination	✓
Peak function	✓
Percentage determination	✓
Standby function	✓
Statistic function	✓
Sum memory function	✓
Function for averaging under unstable weighing conditions	✓
Tolerance weighing	✓
Counting function	✓
Auto-off interval(s) in mains power mode	off
Tare function	manual (multi)
Underfloor weighing	Hook (included in delivery)

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Counting resolution (laboratory conditions)	42.000
Smallest piece weight when piece counting - laboratory conditions	100 mg
Reference quantity	5, 10, 20, 50, 100
Recipe/summing level	Rez A (Net total)
Number of keys for operation	4
Smallest piece weight when piece counting - normal conditions	1 g
Tolerance weighing - type of signal	acoustically visual

Interface

Interfaces	RS-232 standard USB-Device

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 UK US CH
Input voltage power supply / power [Max]	100 V - 240 V AC, 50 / 60 Hz
Power supply cable removable	removable
Input voltage device / power [Max]	12 V; 2 A
Power socket for mains adapter	Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 10,8 mm
Battery capacity	40 mAh
Battery voltage	3 V
Battery – Number of cells	1
Battery – Individual weight	0,8 g
Battery – Total weight	0,8 g
Battery – Lithium content	55 mg
Battery – Tests passed UN 38.3	✓

Environmental conditions

Ambient temperature [Min]	15 °C
Ambient temperature [Max]	25 °C
Humity of environment [Min]	15 %
Humity of environment [Max]	80 %
Storage temperature [Min]	-10 °C
Storage temperature [Max]	60 °C

Services (optional)

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)	370×470×340 mm
Shipping method	Parcel service
Net weight approx.	3,6 kg
Gross weight approx.	6 kg
Shipping weight	11,8 kg
Shipping volume weight	11,8 kg

Product information

GTIN/EAN number	4045761481923
Trade number	90160010
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

