KERN **PWS 800-2**

High-resolution precision balance made of stainless steel with IP protection



Date of creation: 23.10.2026

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

Measuring System	
Weighing system	Tuning fork
Number of weighing ranges	1
Weighing capacity [Max]	820 g
USP Minimum weight of sample (k = 2, U = 0.1%)	20 g
Readability [d]	0,01 g
Reproducibility	0,01 g
Linearity	± 0,01 g
Resolution	82.000
Tare range	820 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	200 g (F2); 500 g (F2)
Stabilization time	3 s
Eccentric loading at 1/3 [Max]	0,03 g
Construction type of the scale	Single-range balance
Units	kg g gn dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct lb oz tol mom
Maximum creep (15 minutes)	100 mg
Maximum creep (30 minutes)	200 mg
Default unit	g
Warm-up time	120 min

Display	
Display type	LCD
Display backlight	✓
Display screen size	109×27 mm
Display digit height	16,5 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	310×205×85 mm
Dimensions completely mounted (W×D×H)	320×205×90 mm
Dimensions weighing surface (Ø)	140 mm
Dimensions weighing surface	140 mm
Material housing	stainless steel
Material weighing plate	stainless steel
Material platform	stainless steel
Material substructure	plastic
Level indicator	✓
Levelling feet adjustable	✓

Functions	
Density determination	✓
IP protection - complete device	IP65
PreTare function	✓
Percentage determination	✓
Function for averaging under unstable weighing conditions	✓
Tolerance weighing	✓
Counting function	✓
Capacity - Display	✓
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Tare function	manual (multi)
Underfloor weighing	Eye (optional)

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Counting resolution (laboratory conditions)	82.000
Counting reference weight can be entered	✓
Smallest piece weight when piece counting - laboratory conditions	10 mg
Reference quantity	5, 10, 30, 100
Recipe/summing level	Rez A (Net total)
Number of keys for operation	9
Smallest piece weight when piece counting - normal conditions	100 mg
Tolerance weighing - type of signal	acoustically visual

Interface

Interfaces	RS-232 standard

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 AUS UK US CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Input voltage power supply / power [Max]	100 V - 240 V AC 50/60 Hz 0,3 A
Power supply cable removable	removable
Input voltage device / power [Max]	5,95 V, 1 A
Power socket for mains adapter	Hollow plug, inside plus, Ø outside 4,75 mm, Ø inside 1,7 mm, long 9,5 mm
Battery / accumulator type	Alkali(-Manganese)
Battery connection	Battery insert

Environmental conditions

Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Humity of environment [Max]	80 %
Storage temperature [Min]	-20 °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)	408×315×220 mm
Shipping method	Parcel service
Net weight approx.	2,4 kg
Gross weight approx.	3,4 kg
Shipping weight	5,7 kg
Shipping volume weight	5,7 kg

Product information

GTIN/EAN number	4045761311275
Trade number	90160010
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

