

KERN PWS 8000-1

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



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

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Number of weighing ranges	1
Weighing capacity [Max]	8200 g
Readability [d]	0,1 g
Reproducibility	0,1 g
Linearity	± 0,1 g
USP Minimum weight of sample (k = 2, U = 0.1%)	200 g
Resolution	82.000
Tare range	8200 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	2 kg (F1); 5 kg (F1)
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,3 g
Maximum creep (15 minutes)	1 g
Maximum creep (30 minutes)	2 g
Default unit	g
Units	kg
	g
	gn
	dwt
	tl (Tw)
	tl (HK)

ozt
tl (Singap, Malays)
ct
mo
lb
oz
tol

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 (W×D)	190×190 mm
Dimensions weighing surface	190×190 mm
Material housing	stainless steel
Material weighing plate	stainless steel
Material platform	Stainless steel
Level indicator	✓
Levelling feet adjustable	✓

Functions	
PreTare function	✓
Recipe/summing level	Rez A (Net total)
Percentage determination	✓
Density determination	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	acoustically visual
Underfloor weighing	Eye (optional)
Function for averaging under unstable weighing conditions	✓
Capacity - Display	✓
Counting function	✓
Counting resolution (laboratory conditions)	82.000
Counting reference weight can be entered	✓
Smallest piece weight when piece counting - laboratory conditions	100 mg
Smallest piece weight when piece counting - normal conditions	1 g

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Reference quantity	5, 10, 30, 100
IP protection - complete device	IP65
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Tare function	manual (multi)
Number of keys for operation	9

Interface

Interfaces	RS-232 standard
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Power Supply

Supplied power supply	Power supply unit
Plug-in power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO
	AUS
	UK
	US
Plug-in power supply / adapter for countries - optional	CH
	EURO
	AUS
	UK
Input voltage power supply / power [Max]	100 V - 240 V AC 50/60 Hz 0,3 A
	Hz 0,3 A
Input voltage device / power [Max]	5,95 V, 1 A
Battery	4×1.5 V AA
Battery connection	Battery insert

Environmental conditions

Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Humidity of environment [Max]	80 %
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Approval

CE mark	✓
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Services (optional)

Article number for DAkkS calibration	963-128
Article number for certificate of conformity	969-517

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	315×405×225 mm

Shipping method	Parcel service
Net weight approx.	3,0 kg
Gross weight approx.	4,2 kg
Shipping weight	5,7 kg

Pictograms

STANDARD



OPTION

