KERN **EWJ 6000-1SM**

High-quality precision balance with automatic internal adjustment, verification optional



Date of creation: 24.10.2026

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

Measuring System	
Weighing system	Strain gauge
Weighing capacity [Max]	6000 g
USP Minimum weight of sample (k = 2, U = 0.1%)	200 g
Readability [d]	0,1 g
Automatic adjustment - Standard time interval	2 h
Reproducibility	0,1 g
Linearity	± 0,3 g
Minimum weight [Min] (verifiable)	5 g
Resolution	60.000
Tare range	5999,9 g
Adjustment options	Internal calibration (automatic)
Stabilization time	2 s
Eccentric loading at 1/3 [Max]	0,3 g
Conformity assessment possible	✓
Construction type of the scale	Single-range balance
Units	g
Units (if device is conformity assessed)	g
Default unit	g
Loadcell type	aluminium IP65 silicone-coated
Warm-up time	120 min

Display	
Display type	LCD
Display backlight	✓
Display screen size	129×27
Display digit height	21 mm
Languages of the user interface	English Symbol language

Construction	
Dimension housing (W×D×H)	220×340×105 mm
Dimensions weighing surface (W×D)	155×145 mm
Dimensions weighing surface	155×145 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	stainless steel
Material load cell(s)	aluminium
Level indicator	✓
Levelling feet adjustable	✓
Transport safety lock - bolt torque	0,1 Nm

Functions	
Hold function	✓
IP protection - display	no IP protection
IP protection - load cell	IP65
PreTare function	✓
Percentage determination	✓
Sum memory function	✓
Function for averaging under unstable weighing conditions	✓
Tolerance weighing	✓
Counting function	✓
Capacity - Display	✓
Auto-off interval(s) in battery mode/rechargeable battery mode	5 min 2 min 1 min 30 min 60 min 30 sec
Tare function	manual (multi)
Counting resolution (laboratory conditions)	60.000

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Counting reference weight can be entered	✓
Smallest piece weight when piece counting - laboratory conditions	100 mg
Reference quantity	5, 10, 20, 50, free, Input
Recipe/summing level	Rez A (Net total)
Number of keys for operation	7
Smallest piece weight when piece counting - normal conditions	1 g
Tolerance weighing - type of signal	acoustically visual

Interface

Interfaces	Bluetooth BTC (v2.0) (optional, factory) Bluetooth BLE (v4.0) (optional, factory)

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
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
Input voltage device / power [Max]	12 V, 500 mA
Power socket for mains adapter	Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 9,5 mm
Battery / accumulator type	Pb
Battery connection	2-pole tub connector
Battery capacity	220 mAh
Battery voltage	3 V
Battery – Number of cells	1
Battery – Individual weight	2,9 g
Battery – Total weight	2,9 g
Battery capacity (Wh)	0,66 Wh
Battery – Lithium content	64 mg
Battery – Tests passed UN 38.3	✓
Rechargeable battery operating time - backlight on	32 h
Rechargeable battery operating time - backlight off	57 h
Rechargeable battery charging time	6,5 h
Rechargeable battery optional	Rchrg. battery optional - intern

Environmental conditions

Ambient temperature [Min]	10 °C
Ambient temperature [Max]	35 °C
Humity of environment [Max]	80 %

Services (optional)

Article number for conformity assessment	965-217
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)	410×295×275 mm
Shipping method	Parcel service
Net weight approx.	3,4 kg
Gross weight approx.	4,6 kg
Shipping weight	6,7 kg
Shipping volume weight	6,7 kg

Product information

GTIN/EAN number	4045761475458
Trade number	84238129
Warranty Time	24 mon
REACH classification	no prohibited substances

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Pictograms

STANDARD



OPTION



FACTORY

