KERN **TGC 500-1**

Slim pocket balance with large stainless steel weighing plate and practical tare pan



Date of creation: 24.10.2026

Category

Brand	KERN
Product category	Laboratory balance
Product group	Pocket balance
Product family	TGC

Measuring System

Weighing system	Strain gauge
Weighing capacity [Max]	500 g
Readability [d]	0,1 g
Reproducibility	0,5 g
Linearity	± 1,5 g
Resolution	5.000
Tare range	500 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	500 g (M3)
Possible calibration points	200 g; 300 g
Stabilization time	2 s
Eccentric loading at 1/3 [Max]	0,5 g
Weighing capacity [Max] (ct)	2500 ct
Construction type of the scale	Single-range balance
Units	g gn dwt ozt ct oz
Tolerance (% of [Max])	0,3%
Maximum creep (15 minutes)	400 mg
Maximum creep (30 minutes)	800 mg
Default unit	g
Readability carat [d] (ct)	0,5 ct
Warm-up time	10 min

Display

Display type	LCD
Display backlight	✓
Display digit height	12 mm
Languages of the user interface	Symbol language

Construction

Dimension housing (W×D×H)	100×130×18 mm
Dimensions weighing surface (Ø)	81 mm
Dimensions weighing surface	81 mm
Material housing	plastic
Material weighing plate	stainless steel
Material display housing	plastic

Functions

IP protection - complete device	-
Auto-off interval(s) in battery mode/rechargeable battery mode	4 min
Tare function	manual (multi)
Number of keys for operation	4

Power Supply

Supplied power supply	Battery
Battery / accumulator type	Li-Metal
Battery	2×CR2032
Battery connection	Pad + Spring
Battery operating time - backlight on	8,75 h
Battery operating time - backlight off	22 h
Battery operating time	8,75 h
Battery capacity	210 mAh
Battery voltage	6 V
Battery – Number of cells	2
Battery – Individual weight	1740 g
Battery – Total weight	3480 g
Battery – Construction	Individual cells
Battery capacity (Wh)	0,63 Wh
Battery – Lithium content	110 mg
Battery – Tests passed UN 38.3	✓

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Battery/Accu connected	not connected, enclosed

Environmental conditions

Ambient temperature [Min]	0 °C
Ambient temperature [Max]	40 °C
Humity of environment [Min]	80 %
Humity of environment [Max]	90 %
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Services (optional)

Article number for adjustment at the location of installation	961-247
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)	100×130×16,5 mm
Shipping method	Parcel service
Net weight approx.	0,15 kg
Gross weight approx.	0,35 kg
Shipping weight	0,318 kg
Shipping volume weight	0,1 kg

Product information

GTIN/EAN number	4045761217539
Trade number	84238129
Warranty Time	24 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

