KERN **DS 100K0.5**

Precision industrial scale with laboratory accuracy, ideal for the diverse possibilities of Industry 4.0 applications



Date of creation: 24.10.2026

Category	
Brand	KERN
Product category	Industrial scale
Product group	Platform scale
Product family	DS

Measuring System	
Weighing system	Strain gauge
Weighing capacity [Max]	100 kg
Readability [d]	0,0005 kg
Reproducibility	0,0005 kg
Linearity	± 0,0015 kg
Resolution	200.000
Adjustment options	Adjusting with external weight
Recommended adjusting weight	60 kg (F1)
Possible calibration points	50 kg; 100 kg
Stabilization time	3 s
Eccentric loading at 1/3 [Max]	0,0025 kg
Construction type of the scale	Single-range balance
Units	kg g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz ffa
Maximum creep (15 minutes)	5 g
Maximum creep (30 minutes)	10 g
Default unit	kg
Warm-up time	120 min

Display	
Display type	LCD
Display backlight	✓
Display screen size	89×30 mm
Display digit height	21 mm
Languages of the user interface	English Symbol language

Construction	
Dimension housing (W×D×H)	225×115×60 mm
Dimension display device (W×D×H)	225×115×60 mm
Dimensions weighing surface (W×D)	500×400 mm
Dimensions weighing surface	500×400 mm
Dimensions weighing platform (W×D×H)	500×400×127 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	metal, lacquered
Material display housing	plastic
Material load cell(s)	aluminium
Level indicator	✓
Levelling feet adjustable	✓
Wall mount	✓
Display device cable length	2,5 m

Functions	
PreTare function	✓
Percentage determination	✓
Sum memory function	✓
Function for averaging under unstable weighing conditions	✓
Tolerance weighing	✓
Counting function	✓
Auto-off interval(s) in battery mode/rechargeable battery mode	5 min 2 min 1 min 30 min 60 min 30 sec
Auto-off interval(s) in mains power mode	off
Tare function	manual (multi)

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Counting resolution (laboratory conditions)	200.000
Counting reference weight can be entered	✓
Smallest piece weight when piece counting - laboratory conditions	500 mg
Reference quantity	5, 10, 20, 50, n (any number of pieces)
Number of keys for operation	5
Smallest piece weight when piece counting - normal conditions	5 g
Tolerance weighing - type of signal	acoustically visual

Interface

Interfaces	Ethernet (optional) analogue (4 - 20 mA) (optional) Bluetooth BLE (v4.0) (optional)
compatible with EasyTouch	✓

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 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]	5,9V, 1A
Power socket for mains adapter	Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 13 mm
Battery / accumulator type	Li-Ion
Rechargeable battery operating time - backlight on	24 h
Rechargeable battery operating time - backlight off	48 h
Rechargeable battery charging time	8 h
Rechargeable battery optional	Rchrg. battery optional - intern

Environmental conditions

Ambient temperature [Min]	-10 °C
Ambient temperature [Max]	40 °C
Humity of environment [Max]	80 %

Services (optional)

Article number for DAkkS calibration	963-129
Article number for certificate of conformity	969-517

Packing & Shipping

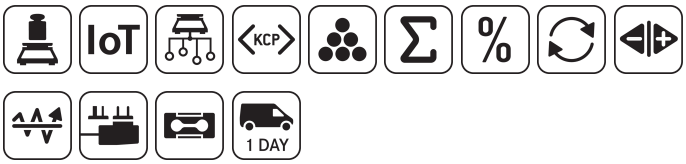
Delivery time	1 d
Dimensions packaging (W×D×H)	930×550×210 mm
Shipping method	Parcel service
Net weight approx.	12 kg
Gross weight approx.	13 kg
Shipping weight	21,5 kg
Shipping volume weight	21,5 kg

Product information

GTIN/EAN number	4045761491663
Trade number	84238220
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

