

# KERN DS 100K0.5



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



## Approval

CE mark	✓
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## Display

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

## Construction

Dimension display device (W×D×H)	225×115×60 mm
Dimension housing (W×D×H)	225×115×60 mm
Dimensions weighing platform (W×D×H)	500×400×125 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	stainless steel
Material platform	metal, lacquered
Dimensions weighing surface (W×D)	500×400 mm
Display device cable length	2,5 m
Transport safety lock - bolt torque	0,1 Nm
Levelling feet adjustable	✓
Wall mount	✓
Stand height	450 mm

## Functions

Number of keys for operation	5
Auto-off interval(s) in mains power mode	off
Auto-off interval(s) in battery mode/rechargeable battery mode	5 min 2 min 1 min 30 min 60 min 30 sec
PreTare function	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	acoustically visual
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)

## Category

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

## Measuring System

Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	100 kg
Readability [d]	0,0005 kg
Resolution	200.000
Linearity	± 0,0015 kg
Reproducibility	0,0005 kg
Default unit	kg

Units	kg g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz ffa
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Adjustment options	Adjusting with external weight
Recommended adjusting weight	50 kg (F1); 50 kg (F1)
Possible calibration points	20 kg; 50 kg; 100 kg
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,0025 kg
Maximum creep (15 minutes)	5 g
Maximum creep (30 minutes)	10 g

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Underfloor weighing	None
Interfaces	RS-232 (optional) Ethernet (optional) Bluetooth BLE (v4.0) (optional) USB-Device (optional) KUP WiFi (optional)

Counting	
Smallest piece weight when piece counting - laboratory conditions	500 mg
Smallest piece weight when piece counting - normal conditions	5 g
Counting reference weight can be entered	✓
Reference quantity	5, 10, 20, 50, n (any number of pieces)
Counting resolution (laboratory conditions)	200.000

Power Supply	
Input voltage power supply / power [Max]	100 V - 240 V AC, 50 / 60 Hz
Input voltage device / power [Max]	5,9V, 1A
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
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
Rechargeable battery optional	Rchrg. battery optional - intern
Rechargeable battery charging time	8 h
Rechargeable battery operating time - backlight on	24 h
Rechargeable battery operating time - backlight off	48 h

Environmental conditions	
Humidity of environment [Max]	80 %
Ambient temperature [Min]	-10 °C
Ambient temperature [Max]	40 °C

Packing & Shipping	
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	600×500×240 mm
Net weight	19 kg
Shipping method	Parcel service
Net weight approx.	19 kg
Gross weight approx.	20 kg
Shipping weight	20 kg

Services (optional)	
Article number for DAkkS calibration	963-129
Article number for certificate of conformity (verification)	969-517

## Pictograms

### STANDARD



### OPTION

