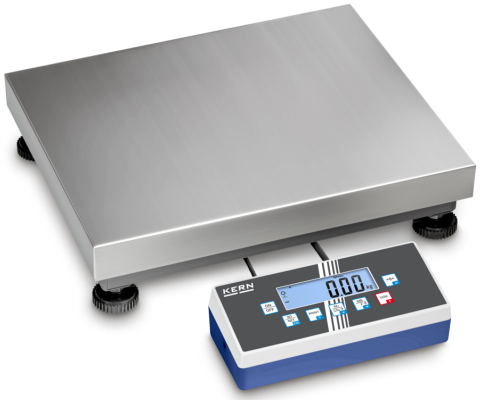
KERN **IOC 100K-3**

High-resolution allround platform scale with a wide range of communication options



Date of creation: 03.10.2026

Category

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

Measuring System

Weighing system	Strain gauge
Weighing capacity [Max]	60 kg; 150 kg
Readability [d]	0,002 kg; 0,005 kg
Reproducibility	0,002 kg; 0,005 kg
Linearity	± 0,006 kg; 0,015 kg
Resolution	30.000, 30.000
Adjustment options	Adjusting with external weight
Recommended adjusting weight	150 kg (M1)
Stabilization time	2 s
Linearisation in dots	3
Eccentric loading at 1/3 [Max]	0,1 kg; 0,25 kg
Construction type of the scale	Multi-range balance
Units	kg g lb oz PCS
Load cell connection	4-wire
Maximum creep (15 minutes)	20 g
Maximum creep (30 minutes)	40 g
Default unit	kg
Loadcell type	aluminium IP65 silicone-coated
Warm-up time	120 min; 120 min

Display

Display type	LCD
Display type	LCD
Display backlight	✓
Display screen size	110×35 mm
Display segments	6
Display digit height - smallest digit	25 mm
Display digit height	25 mm
Languages of the user interface	Symbol language

Construction

Dimension display device (W×D×H)	268×115×80 mm
Dimensions weighing surface (W×D)	500×400 mm
Dimensions weighing surface	500×400 mm
Dimensions weighing platform (W×D×H)	500×400×120 mm
Material weighing plate	stainless steel
Material platform	mild steel
Material display housing	plastic
Material load cell(s)	aluminium
Level indicator	✓
Levelling feet adjustable	✓
Stand inclinable	✓
Wall mount	✓
Display device cable length	3 m
Platform Construction	Single-Cell
Load cells - number	1

Functions

IP protection - complete device	IP65
IP protection - display	IP65
IP protection - platform	IP65
IP protection - load cell	IP65
PreTare function	✓
Percentage determination	✓
Function for averaging under unstable weighing conditions	✓
Tolerance weighing	✓
Counting function	✓
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off 5 min 30 min 15 min

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Auto-off interval(s) in mains power mode	3 min off 5 min 30 min 15 min
Tare function	manual (multi)
Counting resolution (laboratory conditions)	30.000
Smallest piece weight when piece counting - laboratory conditions	5 g
Reference quantity	10, 20, 50, 100, 200
Recipe/summing level	Sum A
Alibi memory	optional internal memory
Alibi memory - number of memory spaces	250.000
Number of keys for operation	7
Smallest piece weight when piece counting - normal conditions	50 g
Tolerance weighing - type of signal	acoustically visual

Interface

Interfaces	RS-232 standard Ethernet (optional, factory) USB (optional, factory) WiFi (optional, factory) Alibi memory (optional, factory) USB-Host/Master (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 UK US
Input voltage power supply / power [Max]	100 V - 240 V AC 50/60 Hz 0.4 A max
Power supply cable removable	removable
Input voltage device / power [Max]	12 V DC, 1000 mA
Power socket for mains adapter	Inside plus, outside minus
Battery / accumulator type	Pb
Battery	no battery
Battery operating time	100 h
Rechargeable battery operating time - backlight on	26 h
Rechargeable battery operating time - backlight off	43 h
Rechargeable battery charging time	3 h
Rechargeable battery optional	Rchrg. battery optional
Battery/Accu connected	fixed electrical connection, not insulated

Environmental conditions

Ambient temperature [Min]	-10 °C
Ambient temperature [Max]	40 °C
Humity of environment [Min]	0 %
Humity of environment [Max]	80 %

Services (optional)

Article number for adjustment at the location of installation	961-249
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)	880×490×160 mm
Shipping method	Parcel service
Net weight approx.	12 kg
Gross weight approx.	14 kg
Shipping weight	13,8 kg
Shipping volume weight	13,8 kg

Product information

GTIN/EAN number	4045761252776
Trade number	84238220
Warranty Time	36 mon
REACH classification	no prohibited substances

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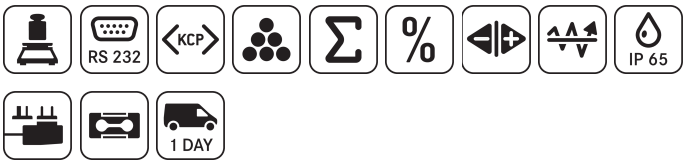
Pictograms

STANDARD



OPTION

FACTORY