

KERN FH 100K



Universal digital force gauge for tensile and compressive force measurements with external load cell



Category

Brand	Sauter
Product category	Force measurement
Product group	Digital force gauge (external measuring cell)
Product family	FH-M

Measuring System

Default unit	kN
Tolerance (% of [Max])	0,5%
Measuring range force [Max] (N)	100 kN
Readability force [d] (N)	50 N
Directions of force	tension compression
Measuring head measuring frequency	2 kHz
Number of platforms / channels	1
Overload protection (% of [Max])	150%
Internal data memory: Number of value groups	1
Internal data memory: Number of individual values	10

Approval

CE mark	✓
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Display

Display type	LCD
Display digit height	10 mm
Screen reversible	✓

Construction

Dimension display device (W×D×H)	230×66×36 mm
Dimension housing (W×D×H)	230×66×36 mm
Dimensions completely mounted (W×D×H)	365×325×155 mm
Material display housing	Plastics
Cable length	3 m
Load support (tensile force)	Rod end
Mounting - force application	Threaded hole M30 × 2
Mounting - force dissipation	Threaded hole M30 × 2
Dimensions load cell	178×125×51 mm

Functions

Auto-off interval(s) in battery mode/rechargeable battery mode	1 - 60 min
Hold function	✓
Peak function	✓
Statistic function	✓
Limit-setting function	✓
Memory function	✓
Interfaces	RS-232 standard

Power Supply

Input voltage power supply / power [Max]	100 V - 240 V
Input voltage device / power [Max]	12 V, 400 mA
Plug-in power supply type	Power adapter
Supplied power supply	Battery & Power supply
Plug-in power supply / adapter for countries - included with the delivery	EURO CH
Plug-in power supply / adapter for countries - optional	UK US
Rechargeable battery charging time	4 h
Rechargeable battery operating time - backlight on	10 h
Rechargeable battery operating time - backlight off	12 h
Battery / accumulator type	NiMH

Environmental conditions

Ambient temperature [Min]	10 °C
Ambient temperature [Max]	40 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	40 °C

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Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	325×185×165 mm
Net weight	10,5 kg
Shipping method	Parcel service
Net weight approx.	11 kg
Gross weight approx.	12 kg
Shipping weight	11,3 kg

Services (optional)

Article number for factory calibration (tensile force)	961-166
Article number for factory calibration (compressive force)	961-266
Article number for factory calibration (tensile force/ compressive force)	961-366

Pictograms

STANDARD



OPTION

