

KERN FL 5K



Powerful digital force gauge with graphic assisted display for tensile and compressive force measurements with external load cell



Category

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

Measuring System

Measuring range force [Max] (N)	5 kN
Readability force [d] (N)	2 N
Measuring head measuring frequency	1000 Hz
Overload protection (% of [Max])	120%
Default unit	N
Internal data memory: Number of individual values	500
Internal data memory: Number of value groups	1
Number of platforms / channels	1
Tolerance (% of [Max])	0,2%
Directions of force	tension compression

Display

Display type	LCD
Display digit height	8,5 mm
Screen reversible	✓

Construction

Dimension housing (W×D×H)	175×75×30 mm
Dimensions completely mounted (W×D×H)	175×75×30 mm
Dimension display device (W×D×H)	175×75×30 mm
Dimensions load cell	69,2×59,5×23,7 mm

Material housing	metal, lacquered
Material display housing	Aluminium
Mounting - force dissipation	Threaded hole M12
Mounting - force application	Threaded hole M12
Load support (tensile force)	Rod end

Functions

Limit-setting function	✓
Analogue signal	✓
Memory function	✓

Interface

Interfaces	RS-232 standard USB-Device analogue (0 +/-2V)
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Power Supply

Supplied power supply	Accu & Power supply
Plug-in power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Input voltage power supply / power [Max]	100 V - 240 V
Input voltage device / power [Max]	9 V, 500 mA
Battery / accumulator type	NiMH
Battery capacity	750 mAh
Battery voltage	4,8 V
Rechargeable battery	4,8 V 750 mA
Rechargeable battery operating time - backlight on	8 h
Rechargeable battery operating time - backlight off	10 h
Rechargeable battery charging time	8 h

Environmental conditions

Ambient temperature [Min]	15 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	40 °C

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Approval

CE mark ✓

Services (optional)

Article number for DAkkS calibration (tensile force) 963-163

Article number for DAkkS calibration (compressive force) 963-263

Article number for DAkkS calibration (tensile force/ compressive force) 963-363

Article number for factory calibration (tensile force) 961-163

Article number for factory calibration (compressive force) 961-263

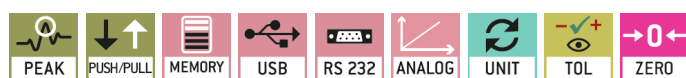
Article number for factory calibration (tensile force/ compressive force) 961-363

Packing & Shipping

Delivery time 1 d
Dimensions packaging (W×D×H) 370×325×115 mm
Shipping method Parcel service
Net weight approx. 1,4 kg
Gross weight approx. 2,4 kg
Shipping weight 2,8 kg

Pictograms

STANDARD



OPTION

