

KERN FL 1K



Universal digital force gauge with graphic-assisted display and integrated load cell



Category

Brand	Sauter
Product category	Force measurement
Product group	Digital force gauge
Product family	FL-S

Measuring System

Measuring range force [Max] (N)	1 kN
Readability force [d] (N)	0,5 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

Material housing	metal, lacquered
Material display housing	Aluminium
Mounting - force application	External thread M6
Load support (tensile force)	Hook

Functions

Limit-setting function	✓
Analogue signal	✓
Hold function	✓
Peak function	✓
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	✓
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Services (optional)

Article number for DAkkS calibration (tensile force)	963-162
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Article number for DAkkS calibration (compressive force)	963-262
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Article number for DAkkS calibration (tensile force/ compressive force)	963-362
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Article number for factory calibration (tensile force)	961-162
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Article number for factory calibration (compressive force)	961-262
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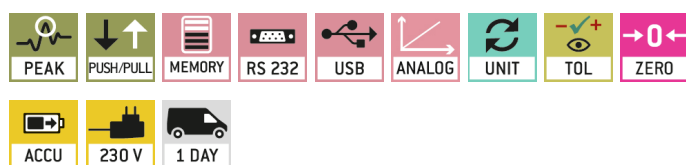
Article number for factory calibration (tensile force/ compressive force)	961-362
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Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	260×225×75 mm
Shipping method	Parcel service
Net weight approx.	0,55 kg
Gross weight approx.	1,6 kg
Shipping weight	1,45 kg

Pictograms

STANDARD



OPTION

