

KERN FH 500



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



Category

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

Measuring System

Measuring range force [Max] (N)	500 N
Readability force [d] (N)	0,1 N
Measuring head measuring frequency	2 kHz
Overload protection (% of [Max])	150%
Default unit	N
Internal data memory: Number of individual values	10
Internal data memory: Number of value groups	1
Tolerance (% of [Max])	0,5%
Directions of force	tension compression

Display

Display type	LCD
Screen reversible	✓

Construction

Dimension housing (W×D×H)	230×70×40 mm
Dimensions completely mounted (W×D×H)	280×70×40 mm
Dimension display device (W×D×H)	45×25×0 mm
Material housing	plastic

Material display housing	Plastics
Mounting - force application	External thread M6
Load support (tensile force)	Hook

Functions

Function for averaging	✓
Limit-setting function	✓
Memory function	✓
Statistic function	✓
Auto-off interval(s) in battery mode/rechargeable battery mode	1 - 60 min

Interface

Interfaces	RS-232 standard USB-Device
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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 - optional	EURO AUS UK US CH
Input voltage power supply / power [Max]	100 V - 240 V
Input voltage device / power [Max]	5 V 1000 mA
Battery / accumulator type	NiMH
Battery connection	2-pole tub connector
Rechargeable battery operating time - backlight on	24 h
Rechargeable battery operating time - backlight off	40 h
Rechargeable battery charging time	120 min

Environmental conditions

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

Approval

CE mark	✓
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Services (optional)

Article number for DAkKS calibration (tensile force)	963-161
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Article number for DAkkS calibration (compressive force)	963-261
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Article number for DAkkS calibration (tensile force/ compressive force)	963-361
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Article number for factory calibration (tensile force)	961-161
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Article number for factory calibration (compressive force)	961-261
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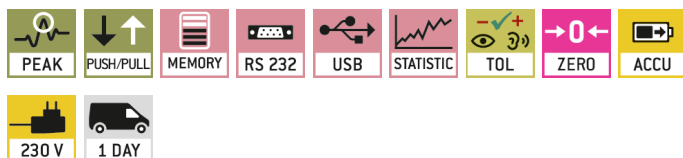
Article number for factory calibration (tensile force/ compressive force)	961-361
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Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	330×190×95 mm
Shipping method	Parcel service
Net weight approx.	0,55 kg
Gross weight approx.	1,4 kg
Shipping weight	1,356 kg

Pictograms

STANDARD



OPTION

