SAUTER **FH 100K**

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



Date of creation: 24.10.2026

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

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

Display	
Display type	LCD
Screen reversible	✓

Construction	
Dimension housing (W×D×H)	180×130×55 mm
Dimensions completely mounted (W×D×H)	390×130×55 mm
Dimension display device (W×D×H)	240×70×40 mm
Material housing	plastic
Material display housing	plastic
Cable length	3 m
Mounting - force dissipation	Threaded hole M30 × 2
Mounting - force application	Threaded hole M30 × 2
Load support (tensile force)	Rod end

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

Interface	
Interfaces	RS-232 standard USB-Device

Power Supply	
Supplied power supply	Accu & Power supply
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
Power socket for mains adapter	USB-C
Battery / accumulator type	NiMH
Battery connection	2-pole tub connector
Battery capacity	1.200 mAh
Battery voltage	3,7 V
Battery – Number of cells	3
Battery – Construction	Inseparable connection of cells (pack)
Battery capacity (Wh)	4,4 Wh
Rechargeable battery operating time - backlight on	24 h
Rechargeable battery operating time - backlight off	40 h

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Rechargeable battery charging time	120 min
Battery/Accu connected	fixed electrical connection, not insulated

Environmental conditions

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

Services (optional)

Article number for DAkkS calibration (tensile force)	963-166
Article number for DAkkS calibration (compressive force)	963-266
Article number for DAkkS calibration (tensile force/ compressive force)	963-366
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

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	420×270×230 mm
Shipping method	Parcel service
Net weight approx.	10 kg
Gross weight approx.	13 kg
Shipping weight	12,07 kg
Shipping volume weight	5,2 kg

Product information

GTIN/EAN number	4045761368484
Trade number	90248000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

