SAUTER **FH 50 EXT**

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



Date of creation: 23.10.2026

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

Measuring System	
Directions of force	tension compression
Measuring range force [Max] (N)	50 N
Readability force [d] (N)	0,01 N
Measuring head measuring frequency	2 kHz
Internal data memory: Number of value groups	1
Overload protection (% of [Max])	150%
Units	N lbf kgf
Tolerance (% of [Max])	0,5%
Internal data memory: Number of individual values	10
Default unit	N

Display	
Display type	LCD
Screen reversible	✓

Construction	
Dimension housing (W×D×H)	75×70×20 mm
Dimensions completely mounted (W×D×H)	110×75×20 mm
Dimension display device (W×D×H)	240×70×40 mm
Material housing	plastic
Material display housing	plastic
Cable length	2,5 m
Mounting - force application	External thread M6
Load support (tensile force)	Hook

Functions	
Peak 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)	963-161
Article number for DAkkS calibration (compressive force)	963-261
Article number for DAkkS calibration (tensile force/ compressive force)	963-361
Article number for factory calibration (tensile force)	961-161
Article number for factory calibration (compressive force)	961-261
Article number for factory calibration (tensile force/ compressive force)	961-361

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	330×190×175 mm
Shipping method	Parcel service
Net weight approx.	0,90 kg
Gross weight approx.	2,2 kg
Shipping weight	2,2 kg
Shipping volume weight	2,2 kg

Product information

GTIN/EAN number	4045761368583
Trade number	90248000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

