SAUTER **FC 50**

Compact force gauge for tensile and compressive force measurements

Date of creation: 02.10.2026

Category

Brand	Sauter
Product category	Force measurement
Product group	Digital force gauge
Product family	FC

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	1000 Hz
Overload protection (% of [Max])	150%
Tolerance (% of [Max])	0,3%
Internal data memory: Number of individual values	500
Number of platforms / channels	1
Default unit	N

Display

Display type	LCD
Display resolution	160×128
Display digit height	10 mm
Screen reversible	✓

Construction

Dimension housing (W×D×H)	140×70×34 mm
Dimensions completely mounted (W×D×H)	140×70×34 mm
Dimension display device (W×D×H)	140×70×34 mm
Material housing	metal
Material display housing	metal
Mounting - force application	External thread M6
Load support (tensile force)	Hook

Functions

Hold function	✓
Peak function	✓
Auto-off interval(s) in battery mode/rechargeable battery mode	1 - 60 min
Memory 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 - included with the delivery	EURO CH
Plug-in power supply / adapter for countries - optional	UK US
Input voltage power supply / power [Max]	100 V - 240 V
Power supply cable removable	removable
Input voltage device / power [Max]	5 V, 1 A
Power socket for mains adapter	USB B
Battery / accumulator type	NiMH
Battery connection	2-pole tub connector
Battery capacity	400 mAh
Battery voltage	3,6 V
Battery – Number of cells	3
Battery – Individual weight	42 g
Battery – Total weight	126 g
Battery – Construction	Inseparable connection of cells (pack)
Rechargeable battery operating time - backlight on	20 h
Rechargeable battery operating time - backlight off	20 h
Rechargeable battery charging time	4 h

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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	961-361
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

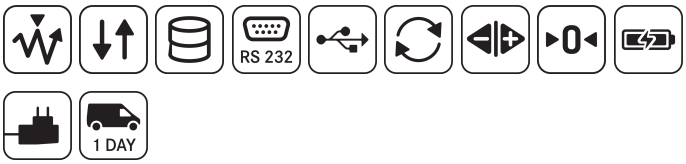
Delivery time	1 d
Dimensions packaging (W×D×H)	340×160×110 mm
Shipping method	Parcel service
Net weight approx.	0,95 kg
Gross weight approx.	1,2 kg
Shipping weight	1,2 kg
Shipping volume weight	1,2 kg

Product information

GTIN/EAN number	4045761160859
Trade number	90248000
Warranty Time	24 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION