SAUTER **FM 50**

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



Date of creation: 25.10.2026

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

Measuring System	
Directions of force	tension compression
Measuring range force [Max] (N)	50 N
Readability force [d] (N)	0,02 N
Measuring head measuring frequency	1000 Hz
Internal data memory: Number of value groups	1
Overload protection (% of [Max])	120%
Tolerance (% of [Max])	0,2%
Internal data memory: Number of individual values	500
Default unit	N

Display	
Display type	LCD
Screen reversible	✓

Construction	
Dimension housing (W×D×H)	71×31×180 mm
Dimensions completely mounted (W×D×H)	71×31×180 mm
Dimension display device (W×D×H)	71×31×180 mm
Material housing	ABS plastic
Mounting - force application	External thread M6
Load support (tensile force)	Hook

Functions	
Hold function	✓
Peak function	✓
Memory function	✓
Limit-setting function	✓

Interface	
Interfaces	USB-Device

Power Supply	
Supplied power supply	Accu & Power supply
Power supply type	USB including power supply
Plug-in power supply / adapter for countries - optional	UK
Input voltage power supply / power [Max]	100 V - 240 V
Input voltage device / power [Max]	5 V, 1 A
Power socket for mains adapter	USB-C
Battery / accumulator type	NiMH
Battery capacity	750 mAh
Battery voltage	4,8 V
Battery – Individual weight	50 g
Rechargeable battery operating time - backlight on	8 h
Rechargeable battery operating time - backlight off	10 h
Rechargeable battery charging time	8 h
Battery/Accu connected	fixed electrical connection, not insulated

Environmental conditions	
Ambient temperature [Min]	15 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	40 °C

Services (optional)	
Article number for DAkkS calibration (tensile force)	963-161

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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)	263×230×75 mm
Shipping method	Parcel service
Net weight approx.	0,35 kg
Gross weight approx.	0,95 kg
Shipping weight	0,914 kg
Shipping volume weight	0,9 kg

Product information

GTIN/EAN number	4045761494879
Trade number	90248000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

