SAUTER **FK 50**

Robust, digital force gauge for tensile and compressive force measurements



Date of creation: 23.10.2026

Category	
Brand	Sauter
Product category	Force measurement
Product group	Digital force gauge (internal measuring cell)
Product family	FK

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
Overload protection (% of [Max])	200%
Tolerance (% of [Max])	0,5%
Number of platforms / channels	1
Default unit	N

Display	
Display type	LCD
Display digit height	18 mm
Screen reversible	✓

Construction	
Dimension housing (W×D×H)	195×82×35 mm
Dimensions completely mounted (W×D×H)	195×82×35 mm
Material housing	plastic
Mounting - force application	External thread M8
Load support (tensile force)	Hook

Functions	
Hold function	✓
Peak function	✓

Power Supply	
Supplied power supply	Power supply & battery included
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO UK US CH
Plug-in power supply / adapter for countries - optional	UK US
Input voltage power supply / power [Max]	100 V - 240 V
Input voltage device / power [Max]	9 V, 300 mA
Power socket for mains adapter	Hollow plug, inside minus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 9,5 mm
Battery / accumulator type	Alkali(-Manganese)
Battery	6×1.5 V AA
Battery connection	Pad + Spring
Battery operating time - backlight off	25 h
Battery operating time	25 h
Battery capacity	2.900 mAh
Battery voltage	1,5 V
Battery – Number of cells	6
Battery – Individual weight	22,6 g
Battery – Total weight	135,6 g
Battery – Construction	Individual cells
Battery capacity (Wh)	4,3 Wh
Battery – Lithium content	0 g
Battery/Accu connected	not connected, enclosed

Environmental conditions	
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	60 °C

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Services (optional)	
Article number for DAkkS calibration (tensile force)	963-161O
Article number for DAkkS calibration (compressive force)	963-261O
Article number for DAkkS calibration (tensile force/ compressive force)	963-361O
Article number for factory calibration (tensile force)	961-161O
Article number for factory calibration (compressive force)	961-261O
Article number for factory calibration (tensile force/ compressive force)	961-361O

Packing & Shipping	
Delivery time	1 d
Dimensions packaging (W×D×H)	255×260×80 mm
Shipping method	Parcel service
Net weight approx.	0,75 kg
Gross weight approx.	0,90 kg
Shipping weight	1,1 kg
Shipping volume weight	1,1 kg

Product information	
GTIN/EAN number	4045761139534
Trade number	90248000
Warranty Time	24 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

