SAUTER **FM 20K**

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

Date of creation: 04.10.2026

Category

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

Measuring System

Directions of force	tension compression
Measuring range force [Max] (N)	20 kN
Readability force [d] (N)	10 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	kN

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
Dimensions load cell	70×64×25 mm
Material housing	ABS plastic
Mounting - force dissipation	Threaded hole M12
Mounting - force application	Threaded hole M12
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)	963-164

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Article number for DAkkS calibration (compressive force)	963-264
Article number for DAkkS calibration (tensile force/ compressive force)	963-364
Article number for factory calibration (tensile force)	961-164
Article number for factory calibration (compressive force)	961-264
Article number for factory calibration (tensile force/ compressive force)	961-364

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	263×230×75 mm
Shipping method	Parcel service
Net weight approx.	0,30 kg
Gross weight approx.	2,6 kg
Shipping weight	2,6 kg
Shipping volume weight	0,9 kg

Product information

GTIN/EAN number	4045761494923
Trade number	90248000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD

OPTION