SAUTER **FL 20K**

Powerful digital force gauge with graphic assisted display for tensile and compressive force measurements with external load cell

Date of creation: 02.10.2026

Category

Brand	Sauter
Product category	Force measurement
Product group	Digital force gauges (external measuring cell)
Product family	FL-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
Number of platforms / channels	1
Default unit	N

Display

Display type	LCD
Display digit height	8,5 mm
Screen reversible	✓

Construction

Dimension housing (W×D×H)	168×75×30 mm
Dimensions completely mounted (W×D×H)	168×75×30 mm
Dimension display device (W×D×H)	175×75×30 mm
Dimensions load cell	70×60×25 mm
Material housing	metal, lacquered
Material display housing	aluminium
Mounting - force dissipation	Threaded hole M12
Mounting - force application	Threaded hole M12
Load support (tensile force)	Rod end

Functions

Analogue signal	✓
Memory function	✓
Limit-setting function	✓

Interface

Interfaces	RS-232 standard USB-Device analogue (0 +/-2V)

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	EURO AUS UK US CH
Input voltage power supply / power [Max]	100 V - 240 V
Input voltage device / power [Max]	9 V, 500 mA
Power socket for mains adapter	Hollow plug inside plus, Ø outside 5,5 mm; Ø inside 2,1 mm
Battery / accumulator type	NiMH
Battery capacity	750 mAh
Battery voltage	4,8 V
Battery – Individual weight	50 g
Rechargeable battery	4,8 V 750 mA
Rechargeable battery operating time - backlight on	8 h
Rechargeable battery operating time - backlight off	10 h

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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 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

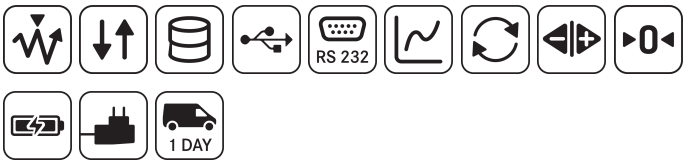
Delivery time	1 d
Dimensions packaging (W×D×H)	373×324×110 mm
Shipping method	Parcel service
Net weight approx.	1,6 kg
Gross weight approx.	2,8 kg
Shipping weight	2,7 kg
Shipping volume weight	2,7 kg

Product information

GTIN/EAN number	4045761216006
Trade number	90248000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION