



◀ **Note:** The shown measuring cell is not included in the scope of delivery! Combine the FL TM with a measuring cell suitable for your application from the SAUTER program, such as CR P1, CR Q1, CS P1 or CS Q1

## Digital Premium force gauge with graphics display for tensile and compressive force measurements, prepared for external measuring cells

### Features

- **1** Premium force-measuring for connection of external measuring cells (measuring cell, tension loops and pressure plates not included with delivery)
- Adjustable nominal loads: 5 N, 10 N, 25 N, 50 N, 100 N, 250 N, 500 N, 1 kN, 2.5 kN, 5 kN, 10 kN, 20 kN, 50 kN
- Suitable for strain gauge sensors: up to 500 N, characteristic value 1 mV/V from 1 kN, characteristic value 2 mV/V
- Maximum resolution 2500 d
- Peak-Hold function to capture peaks (measurement result will be "frozen" for a short time) or Track function mode for a continuous measurement indication
- Metal housing for durable usage in harsh environmental conditions
- Capacity display: A bar lights up to show how much of the measuring range is still available
- Measuring with tolerance range (liwith-setting function): Upper and lower liwithing can be programmed individually, in pull and push direction. The process is supported by an visual signal.
- Internal memory for up to 500 measurement values
- Continuous analogue output: Linear voltage signal in dependence to the load (-2 to +2 V)
- Data interface USB standard
- Selectable measuring units: N, kN, kgf, lbf, ozf

### Technical data

- Transfer rate to PC: approx. 25 measured values per second
- Measuring precision: 0,2 % of [Max]
- Overload protection: 120 % of [Max]
- Overall dimensions: W×D×H 175×75×30 mm
- Rechargeable battery pack integrated, standard, operating time up to 10 h without backlight, charging time approx. 8 h
- Net weight approx. 0,5 kg

### Accessories

- Plug-In for data transfer of measuring data from the measuring instrument and transfer to a PC, e.g. in Microsoft Excel®, SAUTER AFI-1.0, **€ 90,-**
- Data transfer software with graphic display of the measurement process, SAUTER AFH FAST, **€ 115,-**  
Force-displacement only in combination with SAUTER LD, SAUTER AFH LD, **€ 250,-**  
Force-displacement only in combination with SAUTER LB, SAUTER AFH FD, **€ 650,-**
- USB cable, as standard, can be reordered, SAUTER FL-A01, **€ 46,-**
- RS-232 adapter cable, SAUTER FL-A04, **€ 46,-**
- Option FL-C01: Solder connector for FL TM to measuring cell and adjusting the device, SAUTER, **€ 95,-**

STANDARD



OPTION



Model	Price excl. of VAT ex works €
SAUTER	
FL TM	470,-

Option <b>DAkkS</b> calibration certificate (≤ 5 kN) / Factory calibration certificates (> 5 kN)							
Option	Measuring range optional load cell	Tensile force		Compressive force		Tensile/Compressive force	
		KERN	€	KERN	€	KERN	€
Load cell see page S. 88-95	≤ 500 N	963-161	148,-	963-261	148,-	963-361	270,-
	≤ 2 kN	963-162	182,-	963-262	182,-	963-362	330,-
	≤ 5 kN	963-163	250,-	963-263	250,-	963-363	445,-
	≤ 20 kN	961-164	325,-	961-264	325,-	961-364	485,-
	≤ 50 kN	961-165	325,-	961-265	325,-	961-365	485,-

1 Further calibration options on request