

PRODUCT BROCHURE

SAUTER FL 5K

Date: 23.04.2025

ENGLISH



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

CONTACT

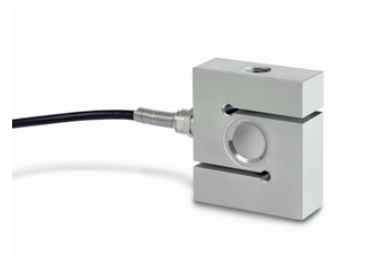
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PRODUCT SHOWCASE



DESCRIPTION

- Premium force gauge with external measuring cell, tension loops included with delivery
- Turnable display with backlight
- Peak-Hold function to capture the peak value or Track function for continuous display of measurement
- Metal housing for durable use in harsh environmental conditions
- Can be mounted on all SAUTER test stands starting 1 kN
- Capacity display: A bar lights up to show how much of the measuring range is still available
- Measuring with tolerance range (limit-setting function): Upper and lower limit adjustable, in pull and push direction. The process is supported by a visual signal
- Internal memory for up to 500 measurement values
- Continuous analogue output: Linear voltage signal in dependence to the load (-2 to +2V)
- USB data interface, as standard
- Selectable measuring units: N, kN, kgf, ozf, lbf
- Delivered in a robust carrying case

SPECIFICATIONS

Article codes, product groups & Status information

Model article-code	FL 5K
Model-Serie	FL
Assortment	Sauter
Product Type	Force measurement
Product group	Digital force-measuring devices (external sensor)
Product usage type	Main article
EAN code (Model)	404576 12 15986
Customs tariff number	90248000

Technical data - Primary

Max. Force	5 kN
Readability	2 N

Technical data - Construction

Dimension housing (W×D×H)	175×75×30 mm
Material housing	aluminium
Mounting thread	threaded hole M12

Technical data - Display

Display type	LCD
Display digit height	8.5 mm
DisplayReverse	yes

Technical data - Power supply

Power supply	Battery & Power supply
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Battery type NiMH

Operating time (Display off) 10 h

Operating time (Display on) 8 h

Mains adapter/adapter included CH;EURO

Protection Class no protection class

Technical data - Measuring system

Units N

Tolerance (% from Max.) 0.2%

Force direction compression;tension

Technical data - Functions

Limit value (Min - Max) yes

Interface Analog (0 +/ -2V);RS-232 serienmäßig;USB-Device

Technical data - Environmental conditions

Maximum operating temperature 35 °C

Minimum storage temperature 40 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H) 370×325×115 mm

Gross weight 2.4 kg

Net weight 1.4 kg

Shipping method Parcel service

UN number	Ni-MH (UN 3496, Packing Instruction #0, Not Restricted as per Special Provision A199)
Packaging component - by weight - cardboard	970 g
Delivery time	1 d

Technical data - Counting data

Memory	yes
Value memory - number of groups	1
Value memory - number of cells (per group)	500

Optional Services

DAkkS calibration - push/pull	963-363
DAkkS calibration - push only	963-263
DAkkS calibration - pull only	963-163

FUNCTIONS

Standard	
    	  
Option	
 	

ACCESSORIES

Model	Description
FL-A03	Removable battery FL-A03
AC 03R	Clamp SAUTER AC 03R
AFM 14	Adapter KERN AFM 14
AFM 17	Thread SAUTER AFM 17
AFM 18	Thread SAUTER AFM 18
AE 08	Pressure plate SAUTER AE 08
AC 03	Clamp SAUTER AC 03
FL-A01	Interface cable FL-A01
FL-A04	Interface cable FL-A04
AC 43	Standard attachments SAUTER AC 43
AC 12R	Clamp SAUTER AC 12R
RFL-4001	Display overlay RFL-4001
AFM 16	Adapter KERN AFM 16
AFM 21	Thread SAUTER AFM 21
AC 02	Stainless steel ball-shaped head SAUTER AC 02
AC 12	Clamp SAUTER AC 12
AC 11R	Clamp SAUTER AC 11R
RFL-3001	LCD Display RFL-3001

SERVICES

Model	Description
963-363	DAkkS Calibration KERN 963-363
961-163	Factory calibration KERN 961-163
963-163	DAkkS Calibration KERN 963-163
963-263	DAkkS Calibration KERN 963-263
970-106	Warranty extension KERN (+2 years) 970-106
961-263	Factory calibration KERN 961-263
961-363	Factory calibration KERN 961-363

SPARE PARTS

Model	Description
FL-A01	Interface cable FL-A01

Model	Description
FL-A03	Removable battery FL-A03
DB-A01	Power Adapter KERN DB-A01
RFL-1011	RFL-1011
FL-A10	Power Adapter KERN FL-A10
RFL-2001	Main PCB RFL-2001
RFL-1014	Plug SAUTER RFL-1014

SOFTWARES

Model	Description
AFH FD	Data Transfer Software SAUTER AFH FD
AFH LD	Data Transfer Software SAUTER AFH LD
AFH FAST	Data Transfer Software SAUTER AFH FAST

RELATED ARTICLES DATA

Model name	Max. Force	Readability
FL 2K	2,5 kN	1 N
FL 5K	5 kN	2 N
FL 10K	10 kN	5 N
FL 20K	20 kN	10 N