

## PRODUCT BROCHURE

# SAUTER FL 100

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ENGLISH



Universal digital force gauge with graphic-assisted display and integrated load cell

### CONTACT

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## PRODUCT SHOWCASE



ENGLISH

## DESCRIPTION

- 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 up to 5 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
- Standard attachments: as shown
- Selectable measuring units: N, kN, kgf, lbf
- Delivered in a robust carrying case

## SPECIFICATIONS

### Article codes, product groups & Status information

Model article-code	FL 100
Model-Serie	FL

Assortment	Sauter
Product Type	Force measurement
Product group	Digital force-measuring devices (internal sensor)
Product usage type	Main article
EAN code (Model)	4045761138872

Customs tariff number 90248000

Force direction compression;tension

### Technical data - Primary

Max. Force 100 N  
Readability 0.05 N

### Technical data - Construction

Dimension housing (W×D×H) 175×75×30 mm  
Material housing aluminium  
Mounting thread External thread M6

### Technical data - Display

Display type LCD  
Display digit height 8.5 mm  
DisplayReverse yes

### Technical data - Power supply

Power supply Battery & Power supply  
Battery type NiMH  
Operating time (Display off) 10 h  
Operating time (Display on) 8 h  
Mains adapter/adaptor included CH;EURO  
Protection Class no protection class

### Technical data - Measuring system

Units N  
Tolerance (% from Max.) 0.2%

### Technical data - Functions

Hold-Function yes  
Peak-Function yes  
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

Gross weight 1.4 kg  
Net weight 0.55 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 871 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	963-361
DAkkS calibration - push only	963-261
DAkkS calibration - pull only	963-161

## FUNCTIONS

Standard

Option

## ACCESSORIES

Model	Description
AC 03	Clamp SAUTER AC 03
AC 43	Standard attachments SAUTER AC 43
AC 01R	Screw Tension Clamp SAUTER AC 01R
FL-A04	Interface cable FL-A04
RFL-3001	LCD Display RFL-3001
AE 04	Clamp SAUTER AE 04
AE 06	Clamp SAUTER AE 06
AC 46	Force sensor SAUTER AC 46
AC 01	Screw Tension Clamp SAUTER AC 01
AC 14	Screw Tension Clamp SAUTER AC 14
AC 12R	Clamp SAUTER AC 12R
AC 18R	Clamp SAUTER AC 18R

Model	Description
AC 22R	Fine point clamp SAUTER AC 22R
AE 500	Screw Tension Clamp SAUTER AE 500
RFL-4001	Display overlay RFL-4001
AC 22	Fine point clamp SAUTER AC 22
AC 18	Clamp SAUTER AC 18
AC 11R	Clamp SAUTER AC 11R
AC 14R	Screw Tension Clamp SAUTER AC 14R
AFM 06	Adapter KERN AFM 06
AFM 12	assembly and repair AFM 12
AFM 15	Sleeve SAUTER AFM 15
AC 45	Force sensor SAUTER AC 45
AC 47	Force sensor SAUTER AC 47
AE 08	Pressure plate SAUTER AE 08
AC 02	Stainless steel ball-shaped head SAUTER AC 02
AC 12	Clamp SAUTER AC 12
AFH 04	Stainless steel handle bar SAUTER AFH 04
FL-A01	Interface cable FL-A01
FL-A03	Removable battery FL-A03
AC 03R	Clamp SAUTER AC 03R
AFM 05	Adapter KERN AFM 05
AFM 07	Sleeve SAUTER AFM 07

## SERVICES

Model	Description
963-261	DAkkS Calibration KERN 963-261
963-161	DAkkS Calibration KERN 963-161
961-261	Factory calibration KERN 961-261
961-161	Factory calibration KERN 961-161
961-361	Factory calibration KERN 961-361
963-361	DAkkS Calibration KERN 963-361
970-101	Warranty extension KERN (+2 years) 970-101

## SPARE PARTS

Model	Description
FL-A01	Interface cable FL-A01
FL-A03	Removable battery FL-A03
DB-A01	Power Adapter KERN DB-A01
RFL-1005	Load cell SAUTER RFL-1005
FL-A10	Power Adapter KERN FL-A10
RFL-2001	Main PCB RFL-2001

## 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 20	25 N	0.01 N
FL 50	50 N	0.02 N
FL 5	5 N	0.002 N
FL 10	10 N	0.005 N
FL 100	100 N	0.05 N
FL 200	250 N	0.1 N
FL 500	500 N	0.2 N
FL 1K	1 kN	0.5 N
FL 500G	500 N	0.2 N
FL 1KG	1 kN	0.5 N