

## 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

CE Label yes

Tolerance (% from Max.) 0.2%

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

Display reverse 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/adapter included CH;EURO

Protection Class no protection class

## Technical data - Measuring system

Units N

## 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

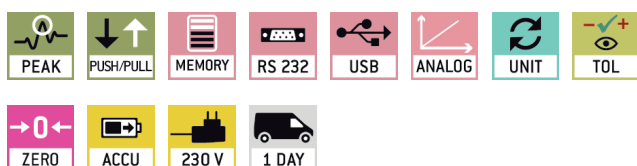
DAkkS calibration -  
push/pull 963-361

DAkkS calibration - push  
only 963-261

DAkkS calibration - pull  
only 963-161

## FUNCTIONS

### Standard



### Option



## ACCESSORIES

| Model  | Description                                   |
|--------|-----------------------------------------------|
| AC 01  | Screw Tension Clamp SAUTER AC 01              |
| AC 02  | Stainless steel ball-shaped head SAUTER AC 02 |
| AC 03  | Clamp SAUTER AC 03                            |
| AC 12  | Clamp SAUTER AC 12                            |
| AC 14  | Screw Tension Clamp SAUTER AC 14              |
| AC 22  | Fine point clamp SAUTER AC 22                 |
| AC 18  | Clamp SAUTER AC 18                            |
| AFH 04 | Stainless steel handle bar SAUTER AFH 04      |
| AC 43  | Standard attachments SAUTER AC 43             |
| FL-A01 | Interface cable FL-A01                        |

| Model    | Description                       |
|----------|-----------------------------------|
| FL-A03   | Removable battery FL-A03          |
| AC 01R   | Screw Tension Clamp SAUTER AC 01R |
| AC 03R   | Clamp SAUTER AC 03R               |
| AC 11R   | Clamp SAUTER AC 11R               |
| AC 12R   | Clamp SAUTER AC 12R               |
| AC 14R   | Screw Tension Clamp SAUTER AC 14R |
| AC 18R   | Clamp SAUTER AC 18R               |
| AC 22R   | Fine point clamp SAUTER AC 22R    |
| FL-A04   | Interface cable FL-A04            |
| AE 500   | Screw Tension Clamp SAUTER AE 500 |
| RFL-3001 | LCD Display RFL-3001              |
| RFL-4001 | Display overlay RFL-4001          |
| AFM 05   | Adapter KERN AFM 05               |
| AFM 06   | Adapter KERN AFM 06               |
| AFM 07   | Sleeve SAUTER AFM 07              |
| AFM 12   | assembly and repair AFM 12        |
| AFM 15   | Sleeve SAUTER AFM 15              |
| AE 04    | Clamp SAUTER AE 04                |
| AE 06    | Clamp SAUTER AE 06                |
| AC 45    | Force sensor SAUTER AC 45         |
| AC 46    | Force sensor SAUTER AC 46         |
| AC 47    | Force sensor SAUTER AC 47         |
| AE 08    | Pressure plate SAUTER AE 08       |

## SERVICES

| Model   | Description                      |
|---------|----------------------------------|
| 963-161 | DAkkS Calibration KERN 963-161   |
| 961-161 | Factory calibration KERN 961-161 |
| 961-261 | Factory calibration KERN 961-261 |
| 961-361 | Factory calibration KERN 961-361 |
| 963-261 | DAkkS Calibration KERN 963-261   |

| Model   | Description                                |
|---------|--------------------------------------------|
| 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 500G    | 500 N      | 0.2 N       |
| FL 1KG     | 1 kN       | 0.5 N       |
| 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       |