

PRODUCT BROCHURE

SAUTER FL 1K

Date: 23.04.2025

ENGLISH



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

CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

Phone : +49 7433 9933-0
Fax : +49 7433 9933-149
Email : info@kern-sohn.com
Web : www.kern-sohn.com



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PRODUCT SHOWCASE



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 1K
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)	4045761138902

Customs tariff number 90248000

Force direction compression;tension

Technical data - Primary

Max. Force	1 kN
Readability	0.5 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/adapter 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

Dimensions packaging (W×D×H)	260×225×75 mm
Gross weight	1.6 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	935 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

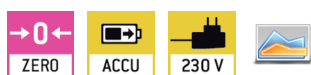
DAkkS calibration - push/pull 963-362

DAkkS calibration - push only 963-262

DAkkS calibration - pull only 963-162

FUNCTIONS

Standard



Option



ACCESSORIES

Model	Description
RFL-3001	LCD Display RFL-3001
AFM 06	Adapter KERN AFM 06
AC 49	Hook KERN AC 49
FL-A03	Removable battery FL-A03
RFL-4001	Display overlay RFL-4001
AFM 12	assembly and repair AFM 12
AFM 15	Sleeve SAUTER AFM 15
FL-A01	Interface cable FL-A01
FL-A04	Interface cable FL-A04
AFM 05	Adapter KERN AFM 05

Model	Description
AFM 07	Sleeve SAUTER AFM 07

SERVICES

Model	Description
963-362	DAkkS Calibration KERN 963-362
970-102	Warranty extension KERN (+2 years) 970-102
961-162	Factory calibration KERN 961-162
961-262	Factory calibration KERN 961-262
963-162	DAkkS Calibration KERN 963-162
961-362	Factory calibration KERN 961-362
963-262	DAkkS Calibration KERN 963-262

SPARE PARTS

Model	Description
FL-A01	Interface cable FL-A01
FL-A03	Removable battery FL-A03
DB-A01	Power Adapter KERN DB-A01
RFL-1008	Load cell SAUTER RFL-1008
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

Model name	Max. Force	Readability
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