

PRODUCT BROCHURE

SAUTER FC 50

Date: 23.04.2025

ENGLISH



Compact force gauge for tensile and compressive force measurements

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



Scan here for more
information

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
- 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, between 10 and 100 % of [Max], in pull and push direction. The process is supported by an acoustic and visual signal
- Safety: If loads exceed 110 % of the measuring range, the device will give clear acoustic and visual signals
- Internal memory for up to 500 measurement values
- USB data interface and USB interface cable as standard
- Selectable: AUTO-OFF function or permanent operation
- Selectable measuring units: N, kgf, ozf, lbf
- Delivered in a robust carrying case
- Standard attachments as shown, extension rod: 90 mm, included with the delivery
- Can be mounted on all SAUTER test stands up to 5 kN

SPECIFICATIONS

Article codes, product groups & Status information

Model article-code	FC 50
Model-Serie	FC

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

EAN code (Model)	4045761160859
Customs tariff number	90248000

Technical data - Primary

Max. Force	50 N
Readability	0.01 N

Technical data - Construction

Dimension housing (W×D×H)	140×70×34 mm
Material housing	metal
Mounting thread	External thread M6

Technical data - Display

Display type	LCD
Display digit height	10 mm
DisplayReverse	yes

Technical data - Power supply

Power supply	Battery & Power supply
Battery type	NiMH
Operating time (Display off)	20 h
Operating time (Display on)	20 h
Mains adapter/adaptor included	CH;EURO
Protection Class	no protection class

Technical data - Measuring system

Units	N
-------	---

Tolerance (% from Max.) 0.3%

Force direction compression;tension

Technical data - Functions

Hold-Function	yes
Peak-Function	yes
Limit value (Min - Max)	yes
Audible ready signal	yes
Interface	RS-232 standard;USB-Device

Technical data - Environmental conditions

Maximum operating temperature	40 °C
Minimum storage temperature	40 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H)	340×160×110 mm
Gross weight	1.2 kg
Net weight	0.95 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	230 g
Packaging component - by weight - styrofoam	130 g
Delivery time	1 d

Technical data - Counting data

Memory	yes
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 12	Clamp SAUTER AC 12
AC 03R	Clamp SAUTER AC 03R
AFM 05	Adapter KERN AFM 05
AFM 07	Sleeve SAUTER AFM 07
AE 04	Clamp SAUTER AE 04
AE 06	Clamp SAUTER AE 06

Model	Description
AC 02	Stainless steel ball-shaped head SAUTER AC 02
AC 14	Screw Tension Clamp SAUTER AC 14
YKA-02	Power supply adapter set KERN YKA-02
AC 12R	Clamp SAUTER AC 12R
AC 22R	Fine point clamp SAUTER AC 22R
FC-A01	Interface cable FC-A01
YKA-01	Power supply KERN YKA-01
AC 22	Fine point clamp SAUTER AC 22
AC 01R	Screw Tension Clamp SAUTER AC 01R
AC 14R	Screw Tension Clamp SAUTER AC 14R
AC 17R	Long clamp SAUTER AC 17R
AE 500	Screw Tension Clamp SAUTER AE 500
AE 01	Standard Clamp AE 01
AE 05	Rope and thread tension clamp SAUTER AE 05
AE 07	Wedge Clamp with jaws AE 07
AC 45	Force sensor SAUTER AC 45
AC 47	Force sensor SAUTER AC 47
AC 03	Clamp SAUTER AC 03
AC 17	Long clamp SAUTER AC 17
AFK 02	Stainless steel handle bar SAUTER AFK 02
AC 43	Standard attachments SAUTER AC 43
AC 11R	Clamp SAUTER AC 11R
AFM 06	Adapter KERN AFM 06
AFM 12	assembly and repair AFM 12
AFM 15	Sleeve SAUTER AFM 15
AE 02	Standard Clamp AE 02
AE 03	Clamp SAUTER AE 03
AC 46	Force sensor SAUTER AC 46
AE 08	Pressure plate SAUTER AE 08

SERVICES

Model	Description
963-361	DAkkS Calibration KERN 963-361
961-161	Factory calibration KERN 961-161
961-361	Factory calibration KERN 961-361
970-017	Warranty extension KERN (+3 years) 970-017
963-161	DAkkS Calibration KERN 963-161
961-261	Factory calibration KERN 961-261
963-261	DAkkS Calibration KERN 963-261

SPARE PARTS

Model	Description
FC-A02	Power Adapter KERN FC-A02
YKA-02	Power supply adapter set KERN YKA-02
RFC-4001	Keyboard overlay KERN RFC-4001
ODC-A8201	USB 2.0 cable ODC-A8201
FC-A03	Rechargeable battery pack SAUTER FC-A03

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
FC 10	10 N	0.01 N
FC 50	50 N	0.01 N
FC 100	100 N	0.1 N
FC 500	500 N	0.1 N
FC 1K	1 kN	1 N
FC 1K-BT	1 kN	1 N