MEASURING TECHNOLOGY & TEST SERVICE 2024

Force measurement

Force Gauge Sets SAUTER FS SP1 · FS RV1 · FS RQ1 · FS OY1 · FS OY2



SAUTER

Practical set of premium force gauge and measuring cell

Thanks to several versions, the pre-configured sets are suitable for tensile and compressive force measurements in a wide range of applications. The set includes the premium force gauge FS 2 and the necessary service FS 401 - FS 408.

It is supplemented optionally by:

- The 4-wire "S" load cell made of nickel-plated steel for force and mass measurement/for tensile and compressive force measurements CS P1 (for details see set FS SP1)
- The load cell made of alloyed steel CR Y1 for tension and compressive force measurements (for details see set FS RY1)
- The load cell made of stainless steel CR Q1 for compressive force measurements (details see set FS RQ1)
- Miniature button-type load cells made of stainless steel CO Y1 for compressive force measurements (details see set FS OY1) or CO Y2 for tensile and compressive force measurements (details see set FS OY2)

IANDARD	OPTION
	DAkks ISO * only for FS SP1, FS RY1, FS OY2 ** up to 5 kN

Model	Me	easuring range	Readability	Load cell	Option DAkkS cali	Option DAkkS calib. cert. (< 5 kN) / Factory calib. cert. (> 5 kN)		
				in the set	Tensile force	Compressive force	Tensile/Comp. force	
		[Max]	[d]		DAkkS	DAkkS	DAkkS	
SAUTER		N	N		KERN	KERN	KERN	
FS 2-1KSP1	NEW	1000	0,2	CS 100-3P1	963-162	963-262	963-362	
FS 2-2KSP1	NEW	2500	0,5	CS 250-3P1	963-163	963-263	963-363	
FS 2-5KSP1	NEW	5000	1	CS 500-3P1	963-163	963-263	963-363	
FS 2-10KSP1	NEW	10000	2	CS 1000-3P1	961-164	961-264	961-364	
FS 2-20KSP1	NEW	20000	4	CS 2000-3P1	961-164	961-264	961-364	
FS 2-50KSP1	NEW	50000	10	CS 5000-3P1	961-165	961-265	961-365	
FS 2-100KSP1	NEW	100000	20	CS 10000-3P1	961-166	961-266	961-366	

FS RY1

FS SP1

Model	Measuring range		Readability	Load cell in the set	Option DAkkS calib. cert. (< 5 kN) / Factory calib. cert. (> 5 kN)		
					Tensile force	Compressive force	Tensile/Comp. force
		[Max]	[d]		DAkkS	DAkkS	DAkkS
SAUTER		N	N		KERN	KERN	KERN
FS 2-5KRY1	NEW	5000	1	CR 500-1Y1	963-163	963-263	963-363
FS 2-10KRY1	NEW	10000	2	CR 1000-1Y1	961-164	961-264	961-364
FS 2-50KRY1	NEW	50000	10	CR 5000-1Y1	961-165	961-265	961-365
FS 2-100KRY1	NEW	100000	20	CR 10000-1Y1	961-166	961-266	961-366
FS 2-200KRY1	NEW	200000	40	CR 20000-1Y1	961-167	961-267	961-367

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For compressive force measurements



SAUTER FS OY 1 For compressive force measurements



SAUTER FS OY2 For tensile and compressive force measurements

FS RQ1

Model	Measu	iring range	Readability	Load cell	Option DAkkS calib. cert. (< 5 kN) / Factory calib. cert. (> 5 kN)		
				in the set	Tensile force	Compressive force	Tensile/Comp. force
SAUTER	[Max] N	[d] N		DAkkS KERN	DAkkS KERN	DAKKS KERN
FS 2-25KRQ1	NEW 2	5000	5	CR 2500-1Q1	-	961-265	-
FS 2-50KRQ1	NEW 5	0000	10	CR 5000-1Q1	-	961-265	-
FS 2-100KRQ1	new 10	00000	20	CR 10000-1Q1	-	961-266	-

FS OY 1

Model	Mea	asuring range	Readability	Load cell	Option DAkkS calib. cert. (≤ 5 kN) / Factory calib. cert. (> 5 kN)		
				in the set	Tensile force	Compressive force	Tensile/Comp. force
		[Max]	[d]		DAkkS	DAkkS	DAkkS
SAUTER		N	Ν		KERN	KERN	KERN
FS 2-500OY1	NEW	500	0,1	CO 50-Y1	-	963-261	-
FS 2-2KOY1	NEW	2000	0,4	CO 200-Y1	-	963-262	-
FS 2-5KOY1	NEW	5000	1	CO 500-Y1	-	963-263	-
FS 2-20KOY1	NEW	20000	4	CO 2000-Y1	-	961-264	-

FS OY2

Model	Measuring range	Readability	Load cell in the set	Option DAkkS calib. cert. (< 5 kN) / Factory calib. cert. (> 5 kN)			
				Tensile force	Compressive force	Tensile/Comp. force	
SAUTER	[Max] N	[d] N		DAkkS KERN	DAkkS KERN	DAkkS KERN	
FS 2-1000Y2	NEW 100	0,02	CO 10-Y2	963-161	963-261	963-361	
FS 2-5000Y2	500	0,1	CO 50-Y2	963-161	963-261	963-361	
FS 2-1KOY2	NEW 1000	0,2	CO 100-Y2	963-162	963-262	963-362	

Accessories

- A/D converter module for expansion from 2 to 4 external measuring channels, SAUTER FS 34
- Transport case, e.g. for accessories (only suitable for measuring range up to 10.000 N), SAUTER FS TKZ
- Plug-In for data transfer of measuring data from the measuring instrument and transfer to a PC, e.g. in Microsoft Excel®, SAUTER AFI-2.0
- · Holders for object fixation and other accessories

New model

MEASURING TECHNOLOGY & TEST SERVICE 2024

SAUTER Pictograms



(limit-setting function) Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the Protection against dust and water splashes IPxx The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, +A1:1999+A2:2013 Resets the display to "0" **Battery operation** Ready for battery operation. The battery type is specified for each device Plug-in power supply 230V/50Hz in standard version for EU. On request GB, AUS or US version Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or US on request The mechanical movement is carried out by a electric The mechanical movement is carried out by a synchronous motor (stepper) The total length of travel



Conformity assessment Models with type approval

for construction of verifiable systems

DAkkS calibration DAkkS possible +3 DAYS

Μ

ISO

+4 DAYS

1 DAY

2 DAYS

The time required for DAkkS calibration is shown in days in the pictogram

Factory calibration (ISO)

The time required for factory calibration is specified in the pictogram

Package shipment

The time required for internal shipping preparations is shown in days in the pictogram

Pallet shipment

The time required for internal shipping preparations is shown in days in the pictogram

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printers

PRINTER

of measurement data

with date, time and serial number. Only with SAUTER

imlab

instrument to a printer, PC

or other peripheral devices

USB

