



## Robust Push/Pull force gauge for simple measurement

### Features

- **Turnable display:** automatic direction identification
- **Secure operability** due to ergonomic design
- **Peak-Hold function** to capture peaks (measurement result will be “frozen” for a short time) or **Track function** mode for a continuous measurement indication (period of time approx. 10 s)
- Selectable measuring units: N, lb, kg, oz
- **Auto-Power-Off**
- **Standard attachments:** as shown below, extension rod: 90 mm
- Can be mounted on all SAUTER test stands

### Technical data

- Precision: 0,5 % of [Max]
- Internal measuring frequency: 1000 Hz
- Overload protection: 200 % of [Max]
- Dimensions WxDxH 195x82x35 mm
- Thread: M8
- Net weight approx. 0,72 kg

### Accessories

- With one of the two optional attachments for tensile strength testing, the SAUTER FK can become a tensiometer for testing the material tension characteristics of cables, threads, wires, twine etc. (up to Ø 5 mm):
  - **Tensiometer attachment with Safe-insert function:** Pull and release to insert the running cable in between the rolls, for tensile strength testing up to 250 N, aluminium attachment, rollers can be adjusted towards the inside, SAUTER FK-A01
  - **Tensiometer kit for high-capacity tensile strength testing** up to 1000 N, steel attachment and steel rollers, rollers cannot be adjusted, SAUTER FK-A02
- Further accessory see [www.sauter.eu](http://www.sauter.eu) and page 26 et seqq.
- **Standard attachments,** SAUTER AC 430































#### STANDARD



#### OPTION



Model	Measuring range [Max]	Readout [d]	Option ISO Calibration Certificate							
			Tension		Compression		Tension/Compression			
			ISO KERN		ISO KERN		ISO KERN			
SAUTER	N	N								
FK 10.	10	0,005	961-161		961-261		961-361			
FK 25.	25	0,01	961-161		961-261		961-361			
FK 50.	50	0,02	961-161		961-261		961-361			
FK 100.	100	0,05	961-161		961-261		961-361			
FK 250.	250	0,1	961-161		961-261		961-361			
FK 500.	500	0,2	961-161		961-261		961-361			
FK 1K.	1000	0,5	961-162		-		-			

	<b>Adjusting program (CAL):</b> For quick setting of the balance's accuracy. External adjusting weight required.		<b>Data interface Infrared:</b> To transfer data from the balance to a printer, PC or other peripheral devices.		<b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device.
	<b>Calibration block:</b> standard for adjusting or correcting the measuring device.		<b>Control outputs (optocoupler, digital I/O):</b> to connect relays, signal lamps, valves, etc.		<b>Rechargeable battery pack:</b> rechargeable set.
	<b>Peak hold function:</b> capturing a peak value within a measuring process.		<b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements.		<b>Mains adapter:</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
	<b>Scan mode:</b> continuous capture and display of measurements.		<b>Statistics:</b> using the saved values, the device calculates statistical data, such as average value, standard deviation etc.		<b>Power supply:</b> Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.
	<b>Push and Pull:</b> the measuring device can capture tension and compression forces.		<b>PC Software:</b> to transfer the measurements from the device to a PC.		<b>Motorised drive:</b> The mechanical movement is carried out by a motorised drive.
	<b>Length measurement:</b> captures the geometric dimensions of a test object or the movement during a test process.		<b>Printer:</b> a printer can be connected to the device to print out the measurements.		<b>Fast-Move:</b> the total length of travel can be covered by a single lever movement.
	<b>Focus function:</b> increases the measuring accuracy of a device within a defined measuring range.		<b>GLP/ISO record keeping:</b> of measurements with date, time and serial number. Only with SAUTER printers.		<b>ISO Calibration:</b> The time required for ISO calibration is shown in days in the pictogram.
	<b>Internal memory:</b> to save measurements in the device memory.		<b>Measuring units:</b> Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details.		<b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
	<b>Data interface RS-232:</b> bidirectional, for connection of printer and PC.		<b>Measuring with tolerance range:</b> Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.		<b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
	<b>Data interface USB:</b> To connect the balance to a printer, PC or other peripheral devices.		<b>ZERO:</b> Resets the display to "0".		<b>Warranty:</b> The warranty period is shown in the pictogram.

Your SAUTER specialist dealer:

# KERN FK1K.

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## Category

Category:	Force gauges
Product Group:	Electronic force-measuring device

## Packaging & shipping

Delivery:	24 h
Dimensions packaging (WxDxH):	250 x 235 x 81 mm
Gross weight:	625 g
Net weight:	460 g
Shipping method:	Parcel service

## Construction

Casing material:	Plastic
Overall dimensions mounted (WxDxH):	195 x 84 x 35 mm

## Measuring system

Measuring range [Max]:	1 kN
Overload protection (of [Max]):	200 %
Precision (of [Max]):	0,005
Readout [d]:	0,500 N
Test frequency:	1000 Hz

## Display

Display digit height:	1,800 cm
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## Functions

Data hold function:	yes
Display revolving:	yes
Peak function:	yes

## Environmental conditions

Maximum operating temperature:	30 °C
Minimum ambient temperature:	10 °C

## Power supply

Input voltage:	100 V - 240 V
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## Service

ISO Calibration certificate (Tensile):	961-162
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