







## 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
- 11 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

2 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 and page 26 et seqq.
- II Standard attachments, SAUTER AC 430

## STANDARD



















Model	Measuring range	Readout	Option ISO Calibration Certificate		
			Tension	Compression	Tension/Compression
	[Max]	[d]	ISO	ISO	ISO
SAUTER	N	N	KERN	KERN	KERN
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	_	_

## **SAUTER Pictograms:**





#### Adjusting program (CAL):

For quick setting of the balance's accuracy. External adjusting weight required.



#### Data interface Infrared:

(optocoupler, digital I/O):

To transfer data from the balance to a printer, PC or other peripheral devices.



#### **Battery operation:**

Ready for battery operation. The battery type is specified for each device.



### Rechargeable battery pack:

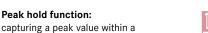
rechargeable set.



#### Calibration block:

measuring process.

standard for adjusting or correcting the measuring device.





SWITCH

#### Analogue interface:

Control outputs

to connect a suitable peripheral device for analogue processing of the measurements.

to connect relays, signal lamps, valves, etc.



ACCU

#### Mains adapter:

230V/50Hz in standard version for EU. On request GB, AUS or USA version available.



PEAK

#### Scan mode:

Push and Pull:

continuous capture and display of measurements.



#### Statistics:

using the saved values, the device calculates statistical data, such as average value, standard deviation etc.



#### Power supply:

Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.

by a single lever movement.



#### PC Software:

to transfer the measurements from the device to a PC.



#### Motorised drive:

The mechanical movement is carried out by a motorised drive.



#### Length measurement:

and compression forces.

captures the geometric dimensions of a test object or the movement during a test process.

the measuring device can capture tension



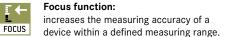
#### Printer:

a printer can be connected to the device to print out the measurements.



#### Fast-Move:

the total length of travel can be covered





### GLP/ISO record keeping:

of measurements with date, time and serial number. Only with SAUTER printers.



### ISO Calibration:

The time required for ISO calibration is shown in days in the pictogram.



#### Internal memory:

to save measurements in the device memory.



### Measuring units:

Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details.



### Measuring with tolerance range:

Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.



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



1 DAY

## Pallet shipment:

Package shipment:

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



## Warranty:

The warranty period is shown in the pictogram.



USB

## of printer and PC.

Data interface RS-232:

bidirectional, for connection

Data interface USB: To connect the balance to a printer, PC or other peripheral devices.



## ZERO:

Resets the display to "0".

## 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

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

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

Minimum ambient temperature:	10°C
Power supply	
Input voltage:	100 V - 240 V
Service	

961-162

ISO Calibration certificate (Tensile):