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# Instruction Manual Mechanical Force Gauge

## SAUTER FA

Version 1.3  
11/2016  
GB



PROFESSIONAL MEASURING

FA-BA-e-1613



# SAUTER FA

Version 1.3 11/2016

## Instruction Manual Mechanical Force Gauge

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Thank you for buying this mechanical force gauge of SAUTER. We hope you are pleased with your high quality force gauge with its functional range. If you have any queries, wishes or helpful suggestions, do not hesitate to call our service number.

Summarize:

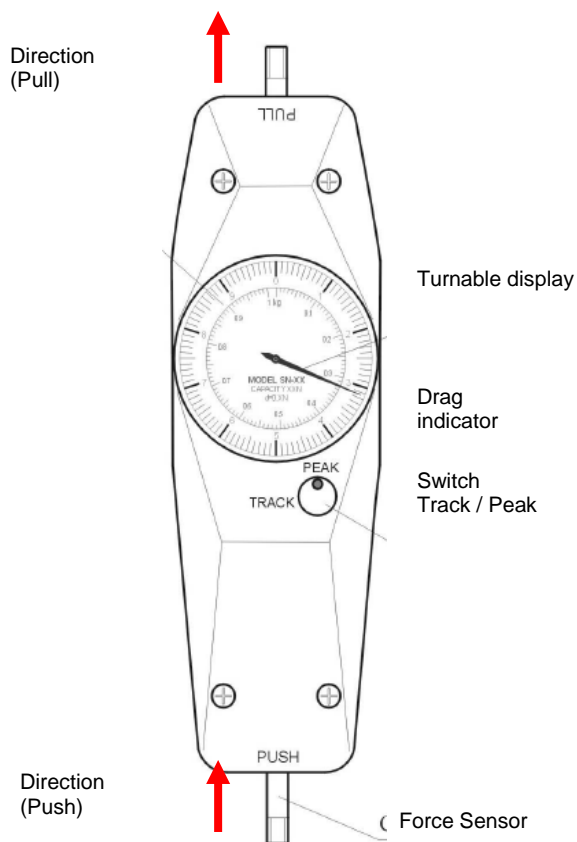
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# 1 Scope of delivery

- SAUTER FA
- Transport case



- Standard attachments, as shown beside



Explanation:

Track = continuous measuring

Peak = Capture of the Maximum value

## 2 Working Conditions

Working temperature: 10°C to 30°C

Humidity: 15% up to 80%

### 3 Technical Data

- Displacement of the measurement system by achieving the max. charge: 10mm
- Accuracy:  $\pm 1$  % of max. capacity
- Weight: 560 g
- Dimensions in mm: 230 x 60 x 50

### 4 Measurement

A suitable attachment has to be mounted, included in the transport case

Track or Peak: Switch while pressing and turning the knob simultaneously, to get the right position

Zero Setting: In Peak position by once pressing the shift key

Tare Function: Zero setting by turning the indicator correspondingly

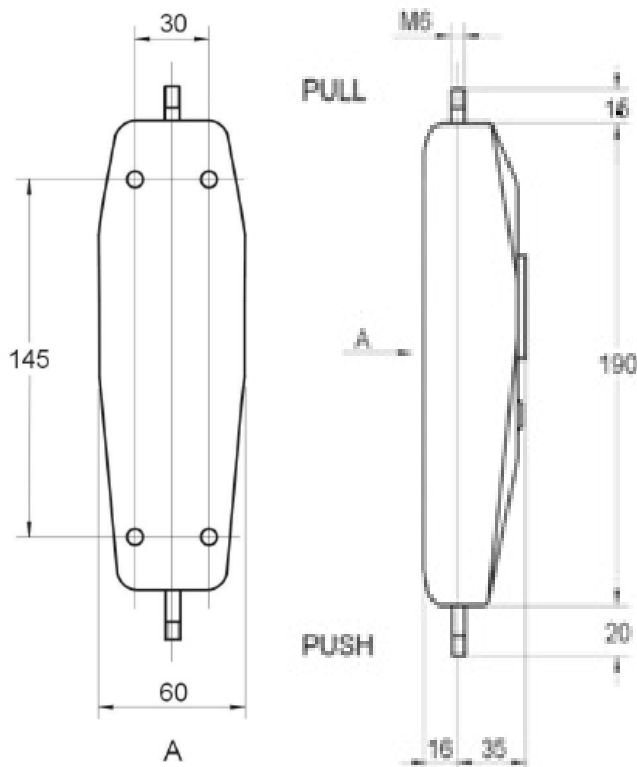
Advice: When the force gauge is not in use, leave it in Peak position; this will extend life of the spring measurement system.

### 5 Adaptation to Test Stands

Onto all SAUTER test stands with four M3 screws. For mounting, the backside housing will have to be removed.

### 6 Drawings

Dimensions in mm

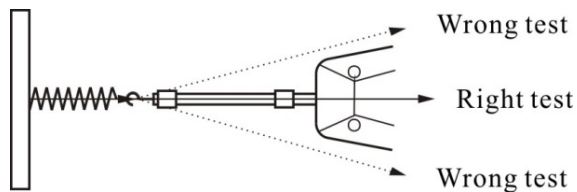


## 7 Warning

Force measurements which have been performed in an incorrect way, can lead to serious injuries of living beings and damage of objects. Therefore trained staff may practice them only.

Be sure to prevent overloading the instrument (over the maximum permitted weight) in excess of the stated maximum load (max.), minus any tare weight that may possibly exist. Do not use the hanging instrument to transport loads.

Prevent jolts, torsion and oscillation (e.g. by suspending loads aslope) of all kinds, because there is a risk of breakage and in all cases there will be a lack of measurement accuracy.



### **Inappropriate use**

Do not use the instrument for medical measurements. In the case that small quantities are removed or added to the material to be measured, incorrect measuring results can be displayed, due to the “stability compensation“ in the instrument (such as slowly draining off of liquid from a container suspended from the instrument). Do not attach a continuous load. This can damage the measuring unit as well as the parts, relevant to safety.

### **Overload**

Be sure to prevent overloading the instrument in excess of the stated maximum load (max.), minus any tare weight that may possibly exist. This could damage the instrument (risk of breakage).

### **Attention:**

- Always make sure that there are no people or materials below the load that could be injured or damaged!
- The instrument is not suitable for measuring people. Do not use it as a baby scale!
- The instrument does not comply with the medical product law (MPG).
- Never operate the instrument in hazardous locations. The series design is not explosion-proof.
- Structural alterations may not be exerted on the instrument. This can lead to incorrect measuring results, faults concerning safety regulations as well as to destruction of the instrument.
- The instrument may only be used in compliance with the described guidelines.
- Varying ranges of applications or planned use must be approved by SAUTER in writing.

### **Warranty**

The warranty is not valid under following aspects:

- Non-observance of our guidelines in the operating instructions
- Use beyond the specified applications
- Alterations or opening the device unprofessionally, as well as mechanical damage and damage caused by media or liquids
- Natural wear out and abrasion
- Inappropriate setting up or electric installation
- Overload of the measuring equipment

### **Monitoring the test substances**

The metrology features of the instrument and any possible available adjusting weight must be checked at regular intervals within the scope of quality assurance. For this purpose, the responsible user must define a suitable interval as well as the nature and scope of this inspection. Information is available on SAUTER home page ([www.sauter.eu](http://www.sauter.eu)) concerning the monitoring of instrument test substances and the test weights required for this. Test weights and instruments can be adjusted quickly and reasonably priced in KERN's accredited DAkkS calibration laboratory (return to national normal).

### **IMPORTANT**

Observe the information in the operating instructions. Please read the instruction manual carefully before assembling and the initial operation, even if you already have gained experience with SAUTER instruments.