Sauter GmbH
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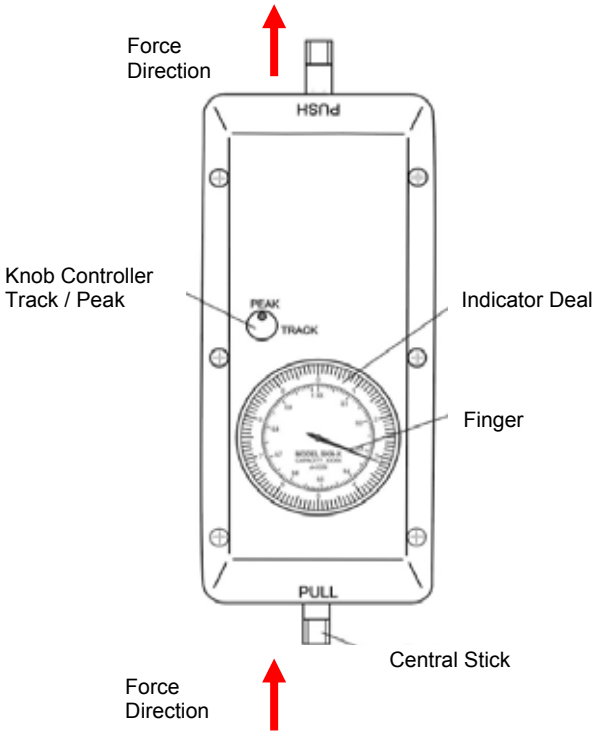
Instruction Manual
FB

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

1. Included in Delivery

- SAUTER FB
- Carrying Case
- Standard Attachments



2. Working conditions

10°C to 30°C / 15% to 80% humidity

3. Technical Specifications

Total Expansion of measuring unit at MAX: 10 mm

4. Measuring

Apply capable attachment

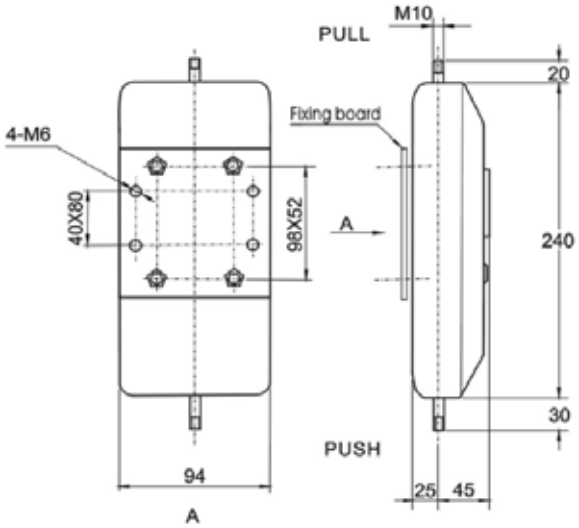
Track or Peak: Depending if you wish force path to be seen (Track) or to measure the max force (Peak), the knob must be pushed and turned the same time, to place it into the right position.

Zeroing in Peak-Position, just press knob once.
Advice: The long-life cycle of the force gauge is improving, by leaving the unit in peak position while not using it. .

Zeroing by turnig the display, if finger doesn´t jump back to zero in released condition or if the measuring instrument is turned from vertical to horizontal position or after applying an attachment.

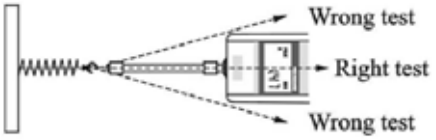
5. Technical Information

Stated in mm



6. Warning

2.1 Intended use
The instrument you have acquired serves to determine the measuring value of the material to be measured. It is intended to be used as a “non-automatic“ instrument, i.e. the material to be measured is manually and carefully attached at the instrument. The measuring value can be read off after a stable measuring value has been obtained.



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2.2 Inappropriate use
Do not use the instrument for dynamic measuring. In the event 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.. Do not attach a continuous load. This can damage the measuring
• 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 as baby scales!
• 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 made to 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 areas of application/ planned use must be approved by SAUTER in writing.
2.3 Guarantee
The guarantee is not valid following
• non-observation of our guidelines in the operating instructions
• use outside the described applications
• alteration to or opening of the device
• mechanical damage and damage caused by media, liquids
• natural wear and tear
• inappropriate erection or electric installation
• overloading of the measuring equipment
2.4 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 answerable user must define a suitable interval as well as the nature and scope of this check. Information is available on
the home page (www.KERN-sohn.com) with regard to the monitoring of instrument test substances and the test weights required for this. Test weights and instruments can be adjusted quickly and at a reasonable price in KERN’s accredited DKD calibration laboratory (return to national normal).

3. Fundamental safety information
Do not use the hanging instrument to transport loads. Prevent jolts, torsion and oscillation (e.g. by appending slopingly) of all kinds.
Never use the hanging instrument over the maximum permitted weight (!!Danger of breaking!!).
Always make sure that there are no living beings or materials below the load that could be injured or damaged.
The hanging electronic instruments from the SAUTER instrument are only suitable for hand-held use or use in a test stand.
unit as well as the parts, relevant to safety.
Prevent jolts, torsion and oscillation (e.g. by appending slopingly) of all kinds. 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).
Important:

They are not suitable for hanging from a mechanical hook, e.g. a crane hook.
3.1 Observe the information in the operating instructions
Please read the operating instructions carefully before erecting
and commissioning, even if you already have experience with SAUTER instruments.
3.2 Staff training
The device may only be operated and looked after by trained members of staff.

4. Transport and storage
5.1 Place of installation, place of use
The instrument is constructed in such a way that reliable measuring results can be achieved under normal application conditions.
By selecting the correct application location for your instrument, you will be able to work quickly and precisely. Therefore please observe the following at the application location:
• Avoid extreme heat as well as temperature fluctuation caused by installing next to a radiator or in the direct sunlight;
• Avoid jarring during measuring;
• Protect the instrument against high humidity, vapours and dust;
• Do not expose the device to extreme dampness for longer
periods of time. Inadmissible bedewing (condensation of air moisture on the device) can occur if a cold device is takeninto a significantly warmer environment. In this case, please acclimatise the device for approx. 2 hours at room temperature after it has been disconnected from the batterys.
• Avoid static charging of the material to be measured, measuring container and windshield.
Major display deviations (incorrect measuring results) are possible if electromagnetic fields occur as well as due to static
charging and instable power supply. It is then necessary to change the location