# Digital coating thickness gauge SAUTER TB









## Your reliable worktool for every day: light, easy, precise

### Features

· **External sensor** for difficult-to-access measuring points
· **Base plate and calibration foils** included
· 1 **Delivered in a robust carrying case**
· **Offset-Accur:** This function allows you to adjust the instrument precisely on the locally measured range by a two-point calibration. This results in a superior accuracy of approx. 1 % of the measured value
· **Selectable measuring units:** mm, µm, mil
· **Auto-Power-Off**
· SAUTER TB 2000-0.1F: Specifically designed for the automobile industry, Precision: Standard 5 % of measured value

### Technical data

· Precision:
  - Standard: 3 % of measured value
  - Offset-Accur: 1 % of measured value
· Minimal measuring area: 6 mm
· Smallest sample surface (radius)
  Type F:
  Convex: 1,5 mm
  Concave: 25 mm
  Type N:
  Convex: 3 mm
  Concave: 50 mm
· Minimal base thickness: 0,3 mm
· Dimensions W×D×H 69×32×161 mm
· Battery operation, batteries standard 4× 1.5V AA
· Net weight approx. 0,26 kg

### Accessories

· 2 **Calibration foils** for increased measuring accuracy (covers the range from 20 up to 2000 µm, with < 3 % tolerance), sim. to illustration, SAUTER ATB-US07
· 3 **External sensor,** Type F, SAUTER ATE 01
· 4 **External sensor,** Type N, SAUTER ATE 02

STANDARD

| CAL BLOCK | FOCUS | →0← ZERO | BATT | 1 DAY |
|---|---|---|---|---|

OPTION

ISO +4 DAYS

| Model SAUTER | Measuring range [Max] µm | Readout [d] µm | Test object | | Option Factory calibration certificates | |
|---|---|---|---|---|---|---|
| | | | | | KERN | |
| TB 1000-0.1F. | 100 \| 1000 | 0,1 \| 1 | Non-magnetic coatings on iron, steel (F) | | 961-110 | |
| TB 2000-0.1F. | 100 \| 2000 | 0,1 \| 1 | Non-magnetic coatings on iron, steel (F) | | 961-110 | |
| TB 1000-0.1N. | 100 \| 1000 | 0,1 \| 1 | Insulating coatings on non-magnetic metals (N) | | 961-110 | |
| TB 1000-0.1FN. | 100 \| 1000 | 0,1 \| 1 | Combination instrument: F/N | | 961-112 | |

Datasheet_TB_V1

# SAUTER Pictograms:

**SAUTER**

**Adjusting program (CAL):**
For quick setting of the balance's accuracy. External adjusting weight required.

**Calibration block:**
standard for adjusting or correcting the measuring device.

**Peak hold function:**
capturing a peak value within a measuring process.

**Scan mode:**
continuous capture and display of measurements.

**Push and Pull:**
the measuring device can capture tension and compression forces.

**Length measurement:**
captures the geometric dimensions of a test object or the movement during a test process.

**Focus function:**
increases the measuring accuracy of a device within a defined measuring range.

**Internal memory:**
to save measurements in the device memory.

**Data interface RS-232:**
bidirectional, for connection of printer and PC.

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

**Data interface Infrared:**
To transfer data from the balance to a printer, PC or other peripheral devices.

**Control outputs (optocoupler, digital I/O):**
to connect relays, signal lamps, valves, etc.

**Analogue interface:**
to connect a suitable peripheral device for analogue processing of the measurements.

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

**PC Software:**
to transfer the measurements from the device to a PC.

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

**GLP/ISO record keeping:**
of measurements with date, time and serial number. Only with SAUTER printers.

**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 (limit-setting function):**
Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model

**ZERO:**
Resets the display to "0".

**Battery operation:**
Ready for battery operation. The battery type is specified for each device.

**Rechargeable battery pack:**
rechargeable set.

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

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

**Motorised drive:**
The mechanical movement is carried out by a electric motor.

**Motorised drive:**
The mechanical movement is carried out by a synchronous motor (stepper).

**Fast-Move:**
the total length of travel can be covered by a single lever movement.

**DAkkS calibration possible:**
The time required for DAkkS calibration is shown in days in the pictogram.

**Factory calibration:**
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.

# Your SAUTER specialist dealer: