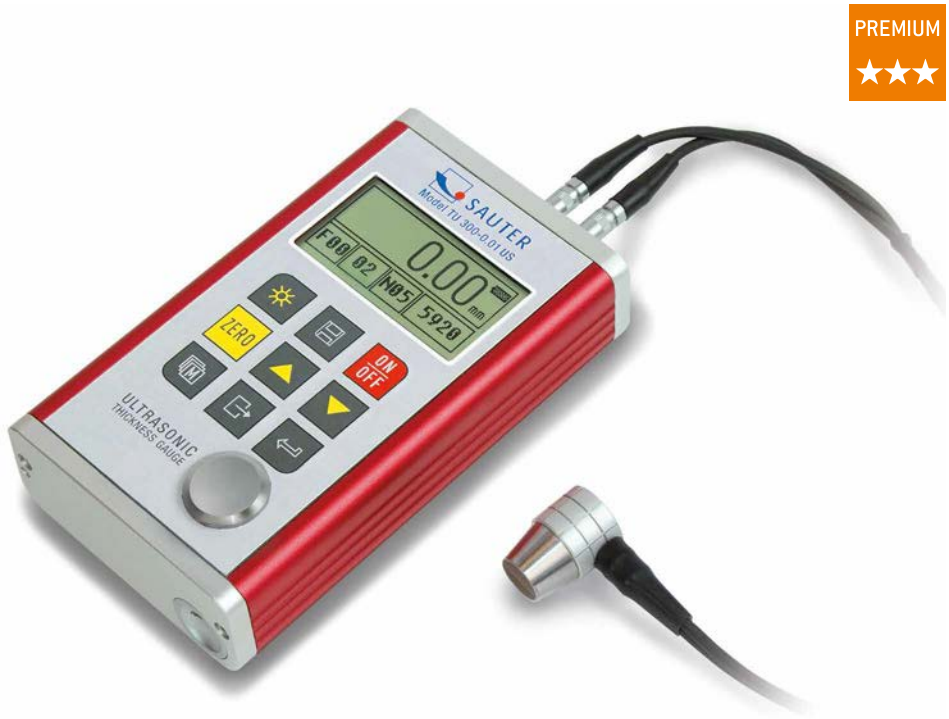
PREMIUM ★★★








# Premium ultrasonic thickness gauge

## Features

- **External sensor** for difficult-to-access measurements
- **Base plate for adjustment** included
- 1 **Data interface RS-232**
- 2 **Delivered in a robust carrying case**
- **Scan mode** (10 measurements per sec.) or single point measuring mode possible
- **Internal memory** for up to 20 files (with up to 100 values per file)
- **Measuring with tolerance range (limit-setting function):** Upper and lower limiting can be programmed individually. The process is supported by an audible and visual signal.
- **Selectable measuring units:** mm, inch
- Robust metal housing

## Technical data

- Precision: 0,5 % of [Max] ± 0,04 mm
- Dimensions W×D×H 76×32×132 mm
- Battery operation, batteries standard 2× 1.5V AA
- Net weight approx. 345 g

## Accessories

- **Software,** interface cable included, SAUTER ATU-04
- **External sensor,** 2,5 MHz, ⌀ 14 mm, for thick samples, in particular cast iron with rough upper surfaces: Measuring range 3–300 mm (steel), SAUTER ATU-US01
- **External sensor,** 7 MHz, ⌀ 6 mm, for thin test materials: Measuring range 0,75–80 mm (steel), SAUTER ATU-US02
- **External sensor,** 5 MHz, ⌀ 6 mm, SAUTER ATB-US01
- **External sensor,** 5 MHz, ⌀ 12 mm, for hot test materials: Measuring range (steel) 3–200 mm at temperatures of up to 300 °C, SAUTER ATB-US02
- **External sensor,** 5 MHz, ⌀ 10 mm, SAUTER ATU-US09
- **External sensor,** 5 MHz, ⌀ 10 mm, transducer at an angle of 90°, SAUTER ATU-US10
- **External sensor,** 6 MHz, ⌀ 6 mm, for thin test materials: Measuring range (steel) 1–50 mm, SAUTER ATB-US01
- **Ultrasound contact gel,** standard, can be reordered, approx. 60 ml, SAUTER ATB-US03

STANDARD: CAL BLOCK · MEMORY · RS 232 · TOL · ZERO · BATT · 1 DAY

OPTION: SOFTWARE · ISO +4 DAYS

| Model SAUTER | Measuring range [Max] mm | Readout [d] mm | Sensor | Sound velocity m/sec | | Option Factory calibration certificates KERN | |
|---|---|---|---|---|---|---|---|
| TU 80-0.01US. | 0,75–80 | 0,01 | 7 MHz \| ⌀ 6 mm | 1000–9999 | | 961-113 | |
| TU 230-0.01US. | 1,2–200 \| 230 | 0,01 \| 0,1 | 5 MHz \| ⌀ 10 mm | 1000–9999 | | 961-113 | |
| TU 300-0.01US. | 3–200 \| 300 | 0,01 \| 0,1 | 2,5 MHz \| ⌀ 14 mm | 1000–9999 | | 961-113 | |



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# SAUTER Pictograms:


**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: