Ultrasonic thickness gauge SAUTER TU-US

SAUTER

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 hard 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)
- **Function to set limits,** programming of Max./Min., in pull and push direction, with output of audible and optical signal.
- Selectable measuring units: mm, inch
- Robust metal housing

Technical data

- Precision: 0,5 % of [Max] ± 0,04 mm
- Dimensions LxWxH 132x76x32 mm
- Battery operation, batteries standard (2 x 1.5 V AA)
- Net weight approx. 345 g

Accessories

- **Software**, interface cable included, SAUTER ATU-04
- **External sensor**, 2,5 MHz, Ø 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, Ø 6 mm, for thin test materials: Measuring range 0,75 - 80 mm (steel), SAUTER ATU-US02
- **External sensor**, 5 MHz, Ø 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, Ø 10 mm, SAUTER ATU-US09
- **External sensor**, 5 MHz, Ø 10 mm, transducer at an angle of 90°, SAUTER ATU-US10
- **External sensor**, 6 MHz, Ø 6 mm, for thin test materials: Measuring range (steel) 1 - 50 mm, SAUTER ATB-US01
- ③ **Thermal printer**, SAUTER ATU-05
- Paper rollsfor SAUTER ATU-05, SAUTER ATU-US11

STANDARD

| CAL BLOCK | MEMORY | RS 232 | TOL | ZERO | BATT | 1 DAY | 2 YEARS WARRANTY |

OPTION

| SOFTWARE | ISO +4 DAYS |

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

SAUTER Pictograms:

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

Calibration block:
standard for adjusting or correcting the measuring device.
`CAL BLOCK`

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

Scan mode:
continuous capture and display of measurements.
`SCAN`

Push and Pull:
the measuring device can capture tension and compression forces.
`PUSH/PULL`

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

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

Internal memory:
to save measurements in the device memory.
`MEMORY`

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

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

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

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

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

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

PC Software:
to transfer the measurements from the device to a PC.
`SOFTWARE`

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

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

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.
`UNIT`

Measuring with tolerance range:
Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.
`TOL`

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

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

Rechargeable battery pack:
rechargeable set.
`ACCU`

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

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

Motorised drive:
The mechanical movement is carried out by a motorised drive.
`MOTOR`

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

ISO Calibration:
The time required for ISO calibration is shown in days in the pictogram.
`ISO +4 DAYS`

Package shipment:
The time required for internal shipping preparations is shown in days in the pictogram.
`1 DAY`

Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram.
`1 DAY`

Warranty:
The warranty period is shown in the pictogram.
`2 YEARS WARRANTY`

Your SAUTER specialist dealer: