

Ultrasonic thickness gauge SAUTER TU-US



Premium ultrasonic thickness gauge

Features

- **External sensor** for difficult-to-access measurements
- **Base plate for adjustment** included
- **Data interface RS-232**
- **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 WxDxH 76x32x132 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
- **Thermal printer**, SAUTER ATU-05
- **Paper rolls**, 1 piece, for SAUTER ATU-05, SAUTER ATU-US11
- **Ultrasound contact gel**, standard, can be reordered, approx. 60 ml, SAUTER ATB-US03
- **5 steel calibration blocks** without wooden box, SAUTER ATU-06
- **5 steel calibration blocks** with wooden box, SAUTER ATU-09

STANDARD



OPTION



Model	Measuring range [Max] mm	Readout [d] mm	Sensor	Sound velocity m/sec	Option ISO Calibration Certificate	
					ISO KERN	
SAUTER						
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	



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



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



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



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



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



Rechargeable battery pack:
rechargeable set.



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



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



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



Scan mode:
continuous capture and display of measurements.



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



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



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



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



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



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



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



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



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



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



ISO Calibration:
The time required for ISO calibration is shown in days in the pictogram.



Internal memory:
to save measurements in the device memory.



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.



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



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



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



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



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



ZERO:
Resets the display to "0".



Warranty:
The warranty period is shown in the pictogram.

Your SAUTER specialist dealer:

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