SAUTER CATALOGUE 2019

Ultrasonic thickness gauge SAUTER TD-US





SAUTER

Compact material thickness gauge with external sensor

Features

- External sensor for difficult-to-access measuring points
- · Data interface RS-232 included
- Base plate for adjustment incorporated
- Selectable measuring units: mm, inch
- Delivered in a robust carrying case

Technical data

- Precision: 0,5 % of [Max] + 0,1 mm
- Dimensions W×D×H 120×65×30 mm
- Battery operation, batteries standard 4× 1.5 V AAA, AUTO-OFF function to preserve batteries
- Net weight approx. 0,164 kg

Accessories

- Data transfer software, interface cable included, SAUTER ATC-01
- External sensor, 5 MHz, Ø 6 mm, for thin test materials: Measuring range (steel)
 1–50 mm, SAUTER ATB-US01
- External sensor, 5 MHz, Ø 12 mm, for hot test materials: Measuring range (steel)
 1-225 mm at normal temperatures,
 4-100 mm at temperatures of up to 300 °C, SAUTER ATB-US02
- External sensor, 5 MHz, Ø 8 mm, SAUTER ATB-US06
- 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
- Ultrasound contact gel, standard, can be reordered, approx. 60 ml, SAUTER ATB-US03

STANDARD)	OPTION			
+					ISO
CAL BLOCK	RS 232	BATT	1 DAY	SOFTWARE	+4 DAYS

Model	Measuring range	Readout	Sensor	Sound velocity	Option Factory calibration certificates	
	[Max]	[d]				
SAUTER	mm	mm		m/sec	KERN	
TD 225-0.1US.	1,2-225	0,1	5 MHz Ø 8 mm	500-9000	961-113	

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Pictograms



Adjusting program (CAL): For quick setting of the instrument'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 measuring instrument to a printer, PC or other peripheral devices.

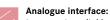


Data interface Infrared:

To transfer data from the measuring instrument to a printer, PC or other peripheral devices.



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



to connect a suitable peripheral device for ANALOG analogue processing of the measurements



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



PC Software: to transfer the measurement data from the device to a PC.



Printer:

a printer can be connected to the device to print out the measurement data.

GLP/ISO record keeping: GLP of measurement data with date, time and





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.

serial number. Only with SAUTER printers

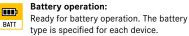


Measuring with tolerance range (limit-setting function): Upper and lower limiting can be programmed

individually. The process is supported by an audible or visual signal, see the relevant model

ZERO: +0+ ZERO

Resets the display to "0".



Rechargeable battery pack:

rechargeable set.

Mains adapter:



ACCU

- E
230 V

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

230V/50Hz in standard version for EU. On

request GB, AUS or USA version available.



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 KERN specialist dealer:



