SAUTER CATALOGUE 2020

Ultrasonic thickness gauge SAUTER TD-US





SAUTER

Compact pocket-sized material thickness gauge

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

- Measuring 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, ∅ 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.

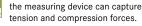


continuous capture and display of measurements



Push and Pull:

Scan mode:



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.



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.



WLAN data interface:

To transfer data from the balance to a printer, PC or other peripherals.



Data interface Infrared:

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

Your KERN specialist dealer:



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



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



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



to transfer the measurement data from the device to a PC



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

Network interface: Ċ

For connecting the scale to an Ethernet LAN network.

KCP
PROTOCO

KERN Communication Protocol (KCP): It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other



GLP/ISO record keeping:

of measurement data with date, time and serial PROTOCOL number. Only with SAUTER printers



Measuring units:

digital systems.

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





FAST-MOVE

The mechanical movement is carried

out by a synchronous motor (stepper).



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:

1 DAY

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.

Motorised drive:

ZERO:

→N←

(IIII)

230 V

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