Ultrasonic thickness gauge SAUTER TO-EE

Material thickness gauge for ultrasonic material thickness testing in Echo-Echo principle

Features

- Premium thickness gauge device using ultrasonic technology: New NT measuring technology generation with automatic sensor adjustment (V-path correction for improved accuracy and more rapid display speed)
- Dual measuring modes to determine material thickness:
  - Pulse-Echo mode (up to 600 mm)
  - Echo-Echo mode (up to 100 mm)
- Echo-Echo measurements: Determining the actual thickness of materials regardless of any existing coating, such as, for example, paint or an anti-corrosion coating on the base metal. In this way, the wall thickness of pipes, for example, can be determined in a non-destructive manner, without having to remove the coating and the measurement can be shown on the display, with the adjustment for the coating thickness already taken into account
- Can be used on these materials, as well as others: Metals, plastics, ceramics, composite materials, epoxy, glass and other materials
- High-precision mode: Readout accuracy can be switched from 0.1 mm to 0.01 mm
- 1 Premium display with colour TFT display (320×240) with adjustable brightness so that it can be read easily in any environmental conditions

- Large internal data memory for up to 100 data sets each with 100 individual values
- Energy-saving operation with 2× AA batteries and an operating time of at least 30 hours, adjustable power-off time (sleep mode) and adjustable display switch-off (standby mode)
- 2 USB data output for easy data download from the device memory to the PC as standard
- Adjustment options: 0-point adjustment, 1-point adjustment, 2-point adjustment by measuring material of different thicknesses
- 3 different measurement modes with standard measuring (single measurement), scan mode (for continuous measurement and display of the ACTUAL value, the MIN and MAX value of the measuring sequence) and DIFF mode with calculation of the difference between the ACTUAL measured value and a manually defined nominal thickness
- Limit alarm function: Upper and lower limit adjustable. The measurement process is supported by an audible and visual signal
- Menu languages: DE, EN, FR, ES, IT
- Date and time can be adjusted. It is possible to store the measurement values with a time stamp
- Standard measuring probe SAUTER: ATU-US12 included with delivery
- 3 Delivered in a robust carrying case

Technical data

- Measuring precision: 0,4 % of [Max] ± 0,04 mm
- Dimensions W×D×H 70×31×130 mm
- Battery operation, batteries standard 2× 1.5 V AA, AUTO-OFF function to preserve batteries
- Net weight approx. 245 g
- Maximum thickness of coating (paints, lacquers or similar coatings which shall be eliminated): 3 mm
- Interface cable FL-A01 (for use of the software) included

Accessories

- External sensor, 5 MHz, Ø 10 mm, for echo-echo measuring, SAUTER ATU-US12, **€ 310,–**
- Ultrasound contact gel, standard, can be reordered, approx. 60 ml, SAUTER ATB-US03, **€ 30,–**
- Software BalanceConnection, flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, for details see internet, KERN SCD-4.0, **€ 170,–**
- Further sensors on request
- **Note:** Further details and plenty of further accessories see www.sauter.eu

STANDARD

| CAL BLOCK | SCAN | MEMORY | USB | TOL | ZERO | BATT | 1 DAY |

OPTION

| SOFTWARE | ISO +4 DAYS |
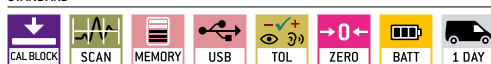
Model	Measuring range Echo-Echo	Measuring range Pulse-Echo	Readout [d]	Speed of sound	Sensor	Price excl. of VAT ex works €	Option Factory calibration certificates	
SAUTER	mm	mm	mm	m/s			KERN	€
TO 100-0.01EE	3–100	0,7–600	0,1/0,01	100–19999	5 MHz | Ø 10 mm	**1390,–**	961-113	132,–