

PREMIUM  
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## 05 Hand-held measuring device for ultrasonic material thickness testing in Echo-Echo principle

### Features

- External sensor
- Data interface USB, standard
- 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)
- Selectable measuring units: mm, inch
- Two measuring modes to determine material thickness:
  - Pulse-Echo mode
  - Echo-Echo mode
- Echo-Echo measuring: Determining the actual thickness of materials irrespective of any coating which might be present. 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
- Echo-Echo measurements are only possible with the measuring head included as part of the delivery (ATU-US12, see accessory)
- Delivered in a robust carrying case

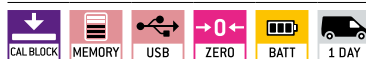
### Technical data

- Measuring precision: 0,5 % of [Max] ± 0,04 mm
- Dimensions W×D×H 74×32×150 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

### Accessories

- Data transfer software, USB interface cable included, SAUTER ATU-04, **€ 110,-**
- 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,-**  
Note: All following Pulse-Echo sensors can only be used in Pulse-Echo mode, not in Echo-Echo mode
- External sensor (Pulse-Echo), 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, **€ 215,-**
- External sensor (Pulse-Echo), 7 MHz, Ø 6 mm, for thin test materials: Measuring range 0,75–80 mm (steel), SAUTER ATU-US02, **€ 110,-**
- External sensor (Pulse-Echo), 5 MHz, Ø 10 mm, SAUTER ATU-US09, **€ 110,-**
- External sensor (Pulse-Echo), 5 MHz, Ø 10 mm, transducer at an angle of 90°, SAUTER ATU-US10, **€ 110,-**

STANDARD



OPTION



Model	Measuring range Echo-Echo	Measuring range Pulse-Echo	Readout [d] mm	Sensor	Sound velocity m/sec	Price excl. of VAT ex works €	Option Factory calibration certificates	
							KERN	€
SAUTER TN 30-0.01EE	3–30	0,65–600	0,01	5 MHz   Ø 10 mm	1000–9999	<b>890,-</b>	961-113	132,-
TN 60-0.01EE	3–60	0,65–600	0,01	5 MHz   Ø 10 mm	1000–9999	<b>1200,-</b>	961-113	132,-