



ALAT Uji
Products, Solution, Services

Ultrasonic Thickness Gauge



TT150



TT300A/320/340



TT360



TT500



TT700



TT900



TT100/110/120/130

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Ultrasonic Thickness Gauge

TT100/110/120/130



Standard delivery

- Main unit
- 5MHz transducer
- 5MHz angle transducer (for TT100/110/130)
- ZW5P high temperature transducer for TT120
- Integrated steel calibration plate 4.0mm
- Batteries AA 1.5V
- Couplant
- TIME Certificate
- Warranty card
- Instruction manual

Optional accessories

- Optional Transducers

Product Introduction:

The principle of Ultrasonic Thickness Gauge is ultrasonic pulse reflection. The pulse was reflected back to the probe when the ultrasonic pulse sent by the probe reaches the material interface through the tested object. We can get the thickness of the measured material based on the accurate time that the ultrasonic transits in the material. Time Ultrasonic Thickness Gauge series are non-destructive testing instrument integrated with modern scientific electronic and measuring technology. They are equipped with microcomputers that can analyze, handle and display the current data.

Features:

- Portable size and easy operation
- Suitable for any metallic and non-metallic materials ultrasonic can go through
- Self-compensating nonlinearity function is supplied for correcting pickup nonlinearity
- 10 measuring values can be recorded for TT100, TT110, TT130; 100 measuring values can be recorded for TT140
- Optional 2.5MHz, 5MHz and 7MHz transducers are available
- Clear 4-Digit LCD display with backlight
- 5 pre-set sound velocities for repeating applications
- mm / inch selectable
- TT100, TT130 and TT140 are suitable for thickness testing of various materials with sound speed range 1000-9999m/s
- TT110 and TT120 are easy-operation models with only two keys suitable for thickness testing of steel
- TT120: high-temperature model
- TT140: with backlight display and memory reach up to 99

Technical Specifications:

Specifications	TT100	TT110	TT120	TT130
• Measuring range	0.75 – 300.00mm (steel)			
• Measuring range for steel pipes	Min.3.0mm thickness ×Φ20 diameter			
• Diameter of transducer	Φ10 (standard) Φ6 (optional) Φ12(optional)			
• Display resolution	0.1mm 0.01mm 0.1mm			
• Calibration	4.0mm steel base plate integrated			
• Tolerance	±(1%H+0.1) mm (H means the thickness of tested piece)			
• Measuring units	mm/inch			
• Sound velocity range	1000-9999m/s	5900 m/s	1000-9999m/s	1000-9999m/s
• Display	4-Digital LCD			
• Surface temperature	-10°C to +60°C	-10°C to +300°C	-10°C to +60°C	- 10°C to +60°C
• Battery indicator	Low battery voltage indicator			
• Power supply	2 Pcs. AA batteries 1.5V			
• Operation time	250 hours			