

Ultrasonic Thickness Gauge MT160



- Capable of performing measurements on a wide range of material, including metals, plastic, ceramics, composites, epoxies, glass and other ultrasonic wave well-conductive materials.
- Transducer models are available for special application, including for coarse grain material and high temperature applications.
- Two-Point Calibration function.
- Two work modes: Single point mode and Scan mode.
- Coupling status indicator showing the coupling status.
- Optional software to process the memory data on the PC.
- Optional thermal mini-printer to print the measured data via RS232 port.

Configuration

	No.	Item	Quantity	Note
Standard Configuration	1	Main body	1	
	2	Transducer	1	Model: N05/90°
	3	Couplant	1	
	4	Instrument Case	1	
	5	Operating Manual	1	
	6	Alkaline battery	2	AA size
	7			
	8			
Optional Configuration	9	Transducer N02		see Table A
	10	Transducer N07		
	11	Transducer HT5		
	12	Mini thermal printer	1	
	13	Print cable	1	
	14	DataPro Software	1	
	15	Communication Cable	1	

Specifications

- Display: 4.5 digits LCD with EL backlight
- Measuring range: 0.75 – 300 mm (in Steel)
- Sound velocity range: 1000 – 9999 m/s
- Resolution: 0.1 / 0.01 mm selectable
- Measuring accuracy: $\pm (0.5\% \text{Thickness} + 0.04)$ mm, depends on materials and conditions
- Units: mm / inch selectable
- Work modes: 4 measurements readings per second for Single point mode, and 10 per second for Scan Mode
- Memory: for up to 20 files (up to 99 values for each file) of stored values
- Power supply: 2 x 1.5 Volt alkaline batteries, AA size
100 hours typical operating time (EL backlight off)
- Communication: RS232 serial port
- Outline dimensions: 150 x 74 x 32 mm
- Weight: 245 g

Table A: Transducer Selection

Model	Frequency MHz	Diameter mm	Measuring Range	Lower limit (work area)	Description
N02	2.5	14	3.0 mm – 300.0 mm (in Steel)	20 mm	For thick, highly attenuating, or highly scattering materials
N05	5	10	1.2 mm – 230.0 mm (in Steel)	Ø20 mm x 3.0 mm	Normal Measurement
N05 /90°	5	10	1.2 mm – 230.0 mm (in Steel)	Ø20 mm x 3.0 mm	Normal Measurement
N07	7	6	0.75 mm – 80.0 mm (in Steel)	Ø15 mm x 2.0 mm	For thin pipe wall or small curvature pipe wall measurement
HT5	5	14	3.0 – 200.0mm (in Steel)	30 mm	For high temperature (lower than 300 °C) measurement