Thickness gauge MT150



- 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.
- Auto sleep and auto power off function to conserve battery life.

Configuration

	No.	Item	Quantity	Remarks
Standard	1	Main body	1	
Configuration	2	Transducer	1	Model: N05/90°
	3	Instrument Case	1	
	4	Operating Manual	1	
Optional	5	Transducer: N02		
Configuration	6	Transducer: N07		
	7	Transducer: HT5		

Specifications

- Display: 4.5 digits LCD with EL backlight.
- Measuring Range: 0.75~300mm (in Steel).
- Sound Velocity Range: 1000~9999 m/s.
- Resolution: 0.1mm.
- Accuracy: \pm (0.5%Thickness+0.04) mm, depends on materials and conditions
- Units: Metric/Imperial unit selectable.
- Four measurements readings per second for single point measurement, and ten per second for Scan Mode.
- Memory for up to 20 files (up to 99 values for each file) of stored values.
- Power Source: Two "AA" size, 1.5 Volt alkaline batteries. 100 hours typical

- operating time (EL backlight off).
- Outline dimensions: 150×74×32 mm. Weight: 245g

Appendix A: Transducer Selection

Model	Freq	Diam	Measuring Range	Lower limit	Description
	MHZ	mm			
N02	2.5	14	3.0mm∼300.0mm (In	20	For thick, highly
			Steel)		attenuating, or
					highly scattering
					materials
N05	5	10	1.2mm~230.0mm (In	Ф 20 mm×	Normal
			Steel)	3.0mm	Measurement
N05	5	10	1.2mm~230.0mm (In	Φ 20 mm×	Normal
/90°			Steel)	3.0mm	Measurement
N07	7	6	0.75mm~80.0mm	Φ15mm×	For thin pipe wall
			(In Steel)	2.0mm	or small
					curvature pipe
					wall
					measurement
HT5	5	12	3~200mm (In Steel)	30	For high
					temperature
					(lower than
					300℃)
					measurement.

Appendix B: Sound Velocities

Material	Sound Velocity		
	In/us	m/s	
Aluminum	0.250	6340-6400	
Steel, common	0.233	5920	
Steel, stainless	0.226	5740	
Brass	0.173	4399	
Copper	0.186	4720	
Iron	0.233	5930	
Cast Iron	0.173-0.229	4400-5820	
Lead	0.094	2400	
Nylon	0.105	2680	

Silver	0.142	3607	
Gold	0.128	3251	
Zinc	0.164	4170	
Titanium	0.236	5990	
Tin	0.117	2960	
Epoxy resin	0.100	2540	
Ice	0.157	3988	
Nickel	0.222	5639	
Plexiglass	0.106	2692	
Polystyrene	0.092	2337	
Porcelain	0.230	5842	
PVC	0.094	2388	
Quartz glass	0.222	5639	
Rubber, vulcanized	0.091	2311	
Teflon	0.056	1422	
Water	0.058	1473	



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