



MT150 Ultrasonic Thickness Gauge



Overview

The model MT150 is a digital ultrasonic thickness gauge. Based on the principle of ultrasonic principle, the instrument is capable of measuring the thickness of various materials, such as metal, plastic, ceramic, glass and many other good ultrasonic conductors. It of all kinds of materials. Compared with the traditional measurement methods, the advantages of ultrasonic thickness gauge is exposed to one side of the workpiece to complete the measurement. Its unique non-destructive testing performance provide the perfect solution for the thickness testing of closed pipes, containers, etc. It is widely used in petroleum , chemical ,metallurgy, shipbuilding, aviation, aerospace and other fields because of monitoring corrosion thinning degree of various pipes and pressure vessels. It can also be used for precise measurement of sheet metal and machined parts.

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Technical Parameters

Display	4.5 digits LCD with EL backlight
Measuring Range	(0.75~300)mm (in Steel)
Sound Velocity Range	(1000~9999) m/s
Resolution	0.1mm
Accuracy	$\pm(0.5\% \text{Thickness} + 0.04)$ mm, depends on materials and conditions
Units	Metric/Imperial unit selectable
Measurement Frequency	Four measurements readings per second for single point measurement, and ten per second for Scan Mode
Storage	Memory for up to 20 files (up to 99 values for each file) of stored values
Thickness Measurement Modes	Single point thickness measurement and scanning thickness measurement
Power Source	Two "AA" size, 1.5 Volt alkaline batteries
Operating Time	More than 100 hours (EL backlight off)
Communication	No
Outline Dimension	150mmx74mmx32 mm
Weight	245g

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Transducer Selection

Model	Freq	Diam	Measuring Range	Lower limit	Description
N05	5MHz	10mm	1.2mm-230mm (In Steel)	Φ20mm×3.0mm	Normal measurement
N05/90°	5MHz	10mm	1.2mm-230mm (In Steel)	Φ20mm×3.0mm	Normal measurement
N07	7MHz	6mm	0.75mm ~ 80.0mm (In Steel)	Φ15mm×2.0mm	For thin pipe wall or small curvature pipe wall measurement
HT5	5MHz	12mm	3.0~200mm (In Steel)	30mm	For high temperature (lower than 300°C) measurement.
N02	2.5M HZ	14mm	3.0mm~300.0mm (In Steel) Under 40mm (HT200)	20mm	For thick, highly attenuating, or highly scattering materials

Configuration

	No.	Item	Quantity	Note
Standard Configuration	1	Main body	1	
	2	Probe: N05	1	
	3	Couplant	1	
	4	Instrument Case	1	
	5	Operating Manual	1	
	6	Alkaline battery	2	
Optional Configuration	1	Probe: N05/90°(5MHz)		
	2	Probe: N02(2.5MHz)		
	3	Probe: N07(7MHz)		
	4	Probe: HT5(5MHz)		
	5	High temperature couplant		

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