

## MT200 Metal Ultrasonic Thickness Gauge 0.1/0.01mm Menu operation

### Description:

The **Mitech model MT200** is a digital ultrasonic thickness gauge. Based on the same operating principles as SONAR, the MT200 is capable of measuring the thickness of various materials with accuracy as high as 0.01 millimeters, or 0.001 inches. It is suitable for a variety of metallic and non-metallic materials.



### Applications:

Model	Freq MHz	Diam mm	Measuring Range	Lower limit	Description
N02	2.5	14	3.0mm ~ 300.0mm(In Steel) 40mm (in Gray Cast Iron HT200)	20	for thick, highly attenuating, or highly scattering materials
N05	5	10	1.2mm ~ 230.0mm(In Steel)	Φ20mm×3.0mm	Normal Measurement
N05 /90°	5	10	1.2mm ~ 230.0mm(In Steel)	Φ20mm×3.0mm	Normal Measurement
N07	7	6	0.75mm ~ 80.0mm (In Steel)	Φ15mm×2.0mm	For thin pipe wall or small curvature pipe wall measurement
HT5	5	12	3 ~ 200mm (In Steel)	30	For high temperature (lower than 300°C) measurement.

### Specifications:

- 1) Display:128×64 dot matrix LCD with EL backlight.
- 2) Measuring Range:0.75 ~ 300mm (in Steel).
- 3) Sound Velocity Range: 1000~9999 m/s.
- 4) Resolution:0.1/0.01mm(selectable).
- 5) Accuracy:  $\pm(0.5\% \text{ Thickness} + 0.04) \text{ mm}$
- 6) Units: Metric/English unit selectable.
- 7) Four measurements readings per second for single point measurement, and ten per second for Scan Mode.
- 8) Memory for 20 files (up to 99 values for each file) of stored values.
- 9) Upper and lower limit can be pre-set. It will alarm automatically when the result value exceeding the limit.
- 10) Power Supply:Two "AA" size, 1.5 volt alkaline batteries. 100 hours typical operating time (EL backlight off).
- 11) Communication:RS232 serial port.
- 12) Case:Extruded aluminum body suitable for use under poor working conditions.
- 13) Outline dimensions:132H X 76.2W mm.
- 14) Weight:345g

**Competitive Advantage:**

- 1) Capable of performing measurements on a wide range of material, including metals, plastic, ceramics, composites, epoxies, glass and other ultrasonic wave well-conductive materials.
- 2) Four transducer models are available for special application, including for coarse grain material and high temperature applications.
- 3) Probe-Zero function, Sound-Velocity-Calibration function
- 4) Two-Point Calibration function.
- 5) Two work modes: Single point mode and Scan mode.
- 6) Coupling status indicator showing the coupling status.
- 7) Battery information indicates the rest capacity of the battery.
- 8) Auto sleep and auto power off function to conserve battery life.
- 9) Optional software to process the memory data on the PC.
- 10) Optional thermal mini-printer to print the measured data via RS232 port.

**Standard Package:**

	No.	Item	Quantity	Note
Standard Configuration	1	Main body	1	
	2	Transducer	1	Model: N05/90°
	3	Instrument Case	1	
	4	Operating Manual	1	
Optional Configuration	5	Transducer: N02		See Table3-1
	6	Transducer: N07		
	7	Transducer: HT5		
	8	Mini thermal printer	1	Only for MT160.
	9	Print cable	1	
	10	DataPro Software	1	
	11	Communication Cable	1	