MT160 Thickness Gauge

- 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.

MT160 Gauge Kit Configuration

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

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Specifications

Display: 4.5 digits LCD with EL backlight.

Measuring Range: 0.030” to 12.000” (0.75 to 300mm) in Steel

Sound Velocity Range: 1000~9999 m/s.

Resolution: 0.01”/0.001” (0.1/0.01mm)

Accuracy: ± (0.5%Thickness + 0.002”/0.04mm) dependent on material and conditions

Units: Imperial and Metric, unit selectable.

Four measurements per second for single point measurements. Ten measurements 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)

Communication: RS232 serial port.

Outline dimensions: 6.0” x 2.96” x 1.28” (150×74×32 mm).

Weight8.65 oz. (245g)

Appendix A: Transducer Selection

Model	Freq. MHz	Dia. mm	Measuring Range In steel	Lower limit	Description
N02	2	22	3.0mm～300.0mm	20	For thick, highly attenuating, or highly scattering materials
N05	5	10	1.2mm～230.0mm	Φ20mm×3.0mm	Normal Measurement
N05 /90	5	10	1.2mm～230.0mm	Φ20mm×3.0mm	Normal Measurement Side-exiting Cable
N07	7	6	0.75mm～80.0mm	Φ15mm×2.0mm	For thin pipe wall or small curvature pipe wall measurement
HT5	5	14	3～200mm	30	For high temperature (lower than 300 C) measurement.