
Ultrasonic Thickness Gauge TG3100**Features**

- 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.Transducer models are available for special application, including for coarse grain material and high temperature applications.
- 3.Two-Point Calibration function.
- 4.Two work modes: Single point mode and Scan mode.
- 5.Coupling status indicator showing the coupling status.
- 6.Optional software to process the memory data on the PC.
- 7.Optional thermal mini-printer to print the measured data via RS232 port.

Specifications

- 1.Display: 4.5 digits 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
- 5.Accuracy: $\pm (0.5\% \text{Thickness} + 0.04)$ mm, depends on materials and conditions
- 6.Units: Metric/Imperial unit selectable.
- 7.Four measurements readings per second for single point measurement, and ten per second for Scan Mode.
- 8.Memory for up to 20 files (up to 99 values for each file) of stored values.
- 9.Power Source: Two AA size, 1.5 Volt alkaline batteries. 100 hours typical operating time (EL backlight off).
- 10.Communication: RS232 serial port.

11.Outline dimensions: 150×74×32 mm.

12.Weight: 245g

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		Appendix A
	10	Transducer: N07		
	11	Transducer: HT5		
	12	Mini thermal printer	1	
	13	Print cable	1	
	14	DataPro Software	1	
	15	Communication Cable	1	

Probe optional (Appendix A):

Model	Freq. MHz	Diam. Mm	Measuring range	Lower limit	Description
N02	2	22	3.0mm-300.0mm (in steel)	20	For thick, highly attenuating, or highly scattering materials
N05	5	10	1.2mm-230.0mm (in steel)	∅ 20mm×3.0mm	Normal measurement
N05/90°	5	10	1.2mm-230.0mm (in steel)	∅ 20mm×3.0mm	Normal measurement
N07	7	6	0.75mm-80.0mm (in steel)	∅ 15mm×2.0mm	For thin pipe or small curvature pipe wall thickness measurement
HT5	5	14	3mm-200mm (in steel)	30	For high temperature measurement (up to 300°C)