

Multimode Ultrasonic Thickness Gauge - BG-UT-700



Features

- Multi-mode: Pulse-Echo mode and Echo-Echo mode
- Probe-Zero function, Sound-Velocity-Calibration function
- Two-Point Calibration Function
- Single point mode and Scan mode
- Measurement readings: 7/s in single point mode
16/s in scan mode
- Coupling status indicator
- Selectable units: Imperial/Metric



SPECIFICATIONS

Measuring Range

Pulse-Echo mode	0.65mm - 600mm (in steel)
Echo-Echo mode	3mm - 30mm

Sound Velocity Range	1000 - 9999 m/s
Accuracy	± (0.5%Thickness+0.2) mm, depends on material and condition
Resolution	0.1mm/0.01mm
Memory	up to 20 files (up to 99 values for each file)
Display	4.5 digits LCD with EL backlight
Operating Temperature	-20°C to 60°C
Storage Temperature	-30°C to 70°C
Relative Humidity	≤90%
Operation Time	100hrs continuously (EL backlight off)
Communication	USB1.1
Power Source	2 x AA size, 1.5V alkaline batteries
Dimensions	150mm x 74mm x 32mm
Weight	245g

OPTIONAL PROBE

Probe	Frequency	Measuring Range (steel)	Lower limit	Description
N05	5MHz	1.0 - 600 mm	Ø 20 x 3.0 mm	Normal measurement
N05/90°	5MHz	1.0 - 600 mm	Ø 20 x 3.0 mm	Normal measurement
N07	7MHz	0.65 - 200 mm	Ø 15 x 2.0 mm	For thin pipe wall or small curvature pipe wall
HT5	14MHz	1.0 - 600 mm	Ø 30 mm	High temperature (lower than 300°C)
P5EE	10MHz	P-E: 2.0 - 600 mm E-E: 3.0 - 300 mm	Ø 20 x 3.0mm	Normal Measurement

TABLE OF SOUND VELOCITY OF VARIOUS MATERIALS

Material	Aluminum	Steel, common	Steel, stainless	Brass	Copper	Iron	Cast Iron	Titanium	Nickel
Sound Velocity (m/s)	6340 - 6400	5920	5740	4399	4720	5930	4400 - 5820	5990	5639

MODEL

DESCRIPTION

BG-UT-700	Multi-mode Ultrasonic Thickness Gauge
Standard Accessories	Probe P5EE, Integrated Calibration Plate 4.0mm, 2x 1.5V AA Batteries, Couplant, Carrying Case
Optional Accessories	
N05	Standard straight probe
N05/90°C	Right angle probe
N07	For thin pipe wall or small curvature pipe wall
HT5	High temperature (lower than 300°C)