

Acez BG-UT-600 Ultrasonic Thickness Gauge



Features

- Acez BG-UT-600 Ultrasonic Thickness Gauge is easy to operate
- Suitable for most metallic and non-metallic materials
- Two standard probes N05 & N05/90° included
- Sound velocity range is up to 9999m/s
- Clear and huge 4.5" Digital LCD
- Display resolution of 0.1mm / 0.01mm
- Memory for 20 files (up to 99 values for each file)
- 5 pre-set sound velocities for repeating applications

TECHNICAL SPECIFICATIONS

Measuring range (steel)	0.75 mm - 300 mm
Measuring range for steel pipes	Min. 3.0 mm thickness x Ø 20 diameter
Transducer frequency	Standard 5 MHz, Ø 10 mm
Display resolution	0.1mm/0.01 mm
Calibration	4.0 mm steel base plate integrated
Measurement accuracy	±0.5% of Material Thickness +0.04 mm, depends on materials and conditions
Measuring units	Metric/Imperial unit selectable
Sound velocity range	1000 -9999 m/s
Display	4.5 Digit LCD with EL backlight
Memory	Storage of 20 files (up to 99 values for each file)
Surface temperature	-20°C to +60°C
Battery indicator	Low battery voltage indicator
Power supply	2 Pieces of AA Alkaline Batteries 1.5V
Operation time	100 hours continuously (EL backlight off)
Dimensions	150 mm x 74 mm x 32 mm
Weight Approx.	245 g including batteries

OPTIONAL PROBE

Probe	Frequency	Measuring Range (steel)	Diameter (Ø)	Measurement for steel pipe size	Characteristics
N05	5MHz	1.2-230.0 mm	10 mm	Ø 20x 3.0 mm	Straight Probe
N05/90°	5MHz	1.2-230.0 mm	10 mm	Ø 20x 3.0 mm	Right Angle Probe
N02	2.5MHz	3.0-300.0 mm	14 mm	Ø 20mm	For thick, highly scattering materials
N07	7MHz	0.75-80.0mm	6 mm	Ø 15 x 2 mm	For testing thin materials
HT5	5MHz	3.0-200.0mm	14mm	Ø 30 mm	High temperature up to 300°C

TABLE OF SOUND VELOCITY OF VARIOUS MATERIALS

Material	Aluminum	Iron	Copper	Brass	Zinc	Silver	Gold	Tin
Sound velocity (m/s)	6320-6400	5890-5930	4650-4720	3800-4700	4170-4320	3600-3700	3200-3250	3300-3330

MODEL

DESCRIPTION

BG-UT-600	Ultrasonic Thickness Gauge comes with standard Straight Probe (N05) and Right Angle Probe (N05/90°), Integrated Steel Calibration Plate 4.0mm, Batteries AA 1.5V, Couplant, Operating Manual, Guarantee Card, Product Certificate, Carrying Case
Optional accessories	
HT5	High temperature up to 300°C
N07	For testing thin materials
N02	For testing thick, highly attenuating, or highly scattering materials