



UTG111 / UTG222



We Are Offering Digital Ultrasonic Thickness Gauge That Is Available in Model UTG-111 / UTG-222. It Is Based on The Same Operating Principles As SONAR, The Instrument Is Capable of Measuring the Thickness of Various Material with Accuracy as High As 0.1/0.001mm. These Gauges Are Capable of Performing Measurements on A Wide Range of Material Including Metals, Plastic, Ceramics, Composites, Epoxies, Glass and Other Ultrasonic Wave Well-Conductive Material. The Transducer Modes of Gauge 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 Coupling Status
- Coupling Status Indicator Showing the Coupling Status
- Auto Sleep and Auto Power Off Function to Conserve Battery Life
- Memory For 20 Files (Up To 99 Values for Each File) Of Stored Values

Model	UTG-222	UTG-111
Display	4.5 Digits LCD With EL Backlight	
Measuring Range	0.75-300mm (Steel)	
Sound Velocity Range	1000-9999 M/S	
Resolution	0.01mm	0.10mm
Accuracy	$\pm(0.5\% \text{Thickness} + 0.04) \text{mm}$	$\pm(1\% \text{Thickness} + 0.1) \text{mm}$
Units	Metric / Inch	
Communication	Rs232 Serial Port	N.A.
Power Supply	Two "AA" Size 1.5 Volt Alkaline Batteries. 100 Hours Typical Operating Time (El Backlight Off)	
Dimension	150 X 74 X 32 mm	
Weight	245g	



Measuring method



Coupling : Put couplant on the workpiece

Measure : Press the probe on the workpiece with couplant, when the coupling symbol appeared on the instrument, the measured value also will be showed on the display.

Finish : Move probe if the device is calibrated and set the correct sound speed, the value will be the vertical thickness of the workpiece.

Measuring method

Measuring method :



Parameters table for probes of ultrasonic thickness gauge



Name	Model	Freq	Diam	Measuring Range	Lower limit	Description
Nomal Proel	N05	5MHz	10mm	1.2~230.0mm (In Steel)	Φ20mm×3.0mm	Normal measurement. If needing this probe as standard probe, please make note when place order.
Nomal Proel	N05/90°	5MHz	10mm	1.2~230.0mm (In Steel)	Φ20mm×3.0mm	Normal measurement Commonly standard probe
Micro-diam Probe	N07	7MHz	6mm	0.75 ~ 80.0mm (In Steel)	Φ15mm×2.0mm	For thin pipe wall or small curvature pipe wall measurement
High Temp Probe	HT5	5MHz	12mm	3 ~ 200mm (In Steel)	30mm	For high temperature (lower than 300°C) measurement
Coarse Grain Probe	N02	2.5MHz	14mm	3.0 ~ 300.0mm (In Steel) 40mm (in Gray Cast Iron HT200)	20mm	For thick, highly attenuating, or highly scattering materials
Narroe Imp ulse Thinckn ess Probe	P5EE	5MHz	10mm	Pulse-Echo : 2.0mm -600mm (in steel) Echo-Echo : 3.0-100 mm (in steel)	Φ20mm×3.0mm	Through-coating thickness testing



HT5
High temperature probe



N02
Coarse grain probe



N05
Optional standard probe



N05/90°
Standard probe



N07
Micro diameter probe