

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	±(0.5%Thickness+0.04)mm	±(1%Thickness+0.1)mm			
Units	Metric / Inch				
Communication	Rs232 Serial Port	N.A.			
Power Supply	Two "AA" Size 1.5 Volt AlkalineBatteries. 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:



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On

Choose

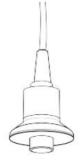
Select sound speed Probe calibration

Test thickness Data save

Off

Parameters table for probes of ultrasonic thickness gauge

Name	Model	Freq	Diam	Measuring Range	Lower limit	Descripition
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)	Ф15mm×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)	Ф20mm×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