

Ultrasonic Thickness Gauge - UTM 9



Technical Specifications : -

1. Auto calibration to assure the accuracy.
2. More than 10000 times long life keys.
3. Low battery indication .
4. Auto power off mode designed to conserve battery life.
5. The unit has a special memory that retains all of its setting even when the power is off.
6. 12 sound velocity for different material which are also adjustable.
7. Auto linear compensation: this advanced software program enhances the precision by correcting the non linear accuracy of transducer.
8. Keys to make a quick adjustment for the sound velocity thickness and a quick recall to the stored data.
9. Sound velocity measurement with a given thickness by a sample hardware to measure the sound velocity. which avoid the further conversion or consultation of the table.
10. Coupling status indication: Observing the coupling icon to learn if the coupling is accomplished or not.
11. This unit is suitable for measuring materials that are good ultrasonic conductor such as metal, plastic, ceramic; glass.

Ultrasonic Thickness Gauge - UTG 111

Product Details:

We are offering digital **Ultrasonic Thickness Gauge** that is available in model **UTG111**. 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 0.1/0.01 millimeters. 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 models of gauge are available for special application, including for coarse grain material and high temperature applications.



Specifications:

- Two-point calibration function
- Two work modes: Single point mode and scan mode
- Coupling status indicator showing the coupling status
- Auto sleep and auto power off function to conserve battery life

Technical Specifications:

Model	UTG111
Display	4.5 digits LCD with EL backlight
Measuring Range	0.75~300mm (in Steel)
Sound Velocity Range	1000~9999 m/s
Resolution	0.10 mm
Accuracy	± (1% Thickness 0.1) mm
Units	Metric / Inch
Power Supply	Two "AA" size 1.5 volt alkaline batteries. 100 hours typical operating time (EL backlight off)
Dimensions	150 x 74 x 32 mm
Weight	245 g

Ultrasonic Thickness Gauge - UTG 222

Product Details:

We are offering digital **ultrasonic thickness gauge** that is available in model **UTG222**. 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 0.01 millimeters. 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 models of gauge are available for special application, including for coarse grain material and high temperature applications.



Specifications:

- Two-point calibration function
- Two work modes: Single point mode and scan mode
- 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

Technical Specifications:

Model	UTG222
Display	4.5 digits LCD with EL backlight
Measuring Range	0.75~300mm (in Steel)
Sound Velocity Range	1000~9999 m/s
Resolution	0.01 mm
Accuracy	± (0.5 Thickness 0.04) mm
Units	Metric / Inch
Communication	RS232 serial port
Power Supply	Two "AA" size 1.5 volt alkaline batteries. 100 hours typical operating time (EL backlight off)
Dimensions	150 x 74 x 32 mm
Weight	245 g

Ultrasonic Thickness Gauge - MT 180

Product Details:

We are offering digital **Ultrasonic Thickness Gauge** that is available in model **MT 180**. The MT-180 is a multi-mode ultrasonic thickness gauge. Based on the same operating Principles as SONAR, the instrument is capable of measuring the thickness of various materials with accuracy as high as 0.1/0.01 millimeters.

The multi-mode feature of the gauge allows the user to toggle between pulse-echo mode (flaw and pit detection), and echo-echo mode (eliminate paint or coating thickness).

- Multi-mode: Pulse-Echo mode and Echo-Echo mode.
- Two-Point Calibration function.
- Units: Metric/Imperial unit selectable.
- Probe-Zero function, Sound-Velocity-Calibration function
- Capable of performing measurements on a wide range of material, including metals, plastic, ceramics, composites, epoxies, glass and other ultrasonic wave well-conductive materials. Transducer models are available for special application, including for coarse grain material and high temperature applications.
- Single point mode and Scan mode. Seven measurement readings per second in single point mode, and sixteen per second in Scan Mode.
- Battery information indicates the rest capacity of the battery Auto sleep and auto power off function to conserve battery life. Optional software to process the memory data on the PC.



Product Specifications :-

- Display :- 4.5 digits LCD with EL backlight.
- Range :- Pulse-Echo mode: (0.65~600)mm (in Steel) & Echo-Echo mode: (3-30) mm
- Sound Velocity Range: (1000~9999) m/s , Resolution :- 0.01mm
- Accuracy :- $\pm(0.5\% \text{Thickness} + 0.01)$ mm, depends on materials and conditions
- Memory for up to 20 files (up to 99 values for each file) of stored values.
- Power Source :- Two "AA" size, 1.5 Volt alkaline batteries.

Transducer Selection: -


Model	Freq (MHZ)	Diameter (MM)	Measuring Range	Description
P5EE	5	10	P-E : 2-300mm E-E : 3-100mm	Normal Measurement
N05	5	10	1-300mm (in Steel)	Normal Measurement
N07	7	6	0.65-200mm (in Steel)	For thin pipe wall or small curvature pipe measurement
HT5	5	14	1-600mm (in Steel)	For High Temperature (Up to 3000 C)

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Ultrasonic Thickness Gauge

				
Model	UTM 9 (Economical)	UTG 111	UTG 222	MT 180 (Multi-mode)
Measuring Range	2 to 200 MM	1 to 300 MM	1 to 300 MM	1 to 600 MM
Resolution	0.1 MM	0.1 MM	0.01 MM	0.01 MM
Accuracy	$\pm(1\% \text{Thickness} + 0.1) \text{mm}$	$\pm(1\% \text{Thickness} + 0.1) \text{mm}$	$\pm(0.5\% \text{Thickness} + 0.04) \text{mm}$	$\pm(0.5\% \text{Thickness} + 0.04) \text{mm}$
Data Logging	Not Available	Not Available	Memory For 20 Files (Up To 99 Values For Each File).	Memory For 20 Files (Up To 99 Values For Each File).
User Mode	PE - Pulse - Echo Mode	PE - Pulse - Echo Mode	PE - Pulse - Echo Mode	Multi-mode: Pulse-Echo mode and Echo-Echo mode.
Common Features	<ol style="list-style-type: none"> Two Point Calibration Function with 4 MM Standard Calibration block attached on Thickness Gauge. 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 With Low Battery Indication With Two "AA" Batteries Memory For 20 Files (Up To 99 Values For Each File) Of Stored Values Sound Velocity Range - 1000-9999 M/S , Unit - Metric / Inch Backlight function in UTG 111 , UTG 222 , MT 180. The standard Package includes the instrument, P5EE / N05 - 5 MHz Probe , 2 AA alkaline batteries, Couplant, Manual and carries case with NABL Traceable Calibration , Software CD + Data Cable for UTG 222 & MT 180 Model. 			