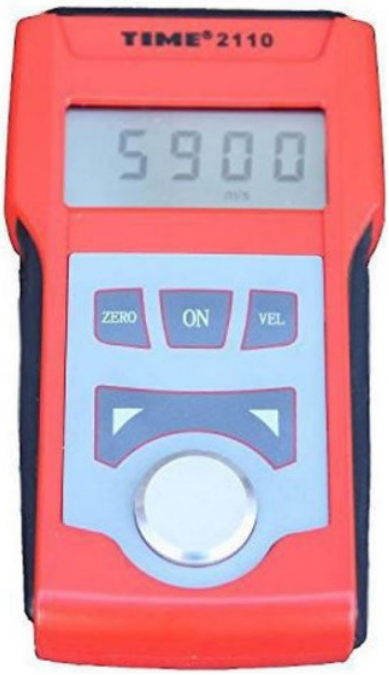
TIME TT2110 Ultrasonic Thickness Gauge



The TT2110 Low Cost Ultrasonic Wall Material Thickness Gauge is a hand held microprocessor controlled thickness gauge specifically designed for measuring the thickness of metallic and non-metallic materials e.g. aluminium, titanium, plastics, ceramics, glass and other good ultrasonic wave-conducting as long as the material has parallel top and bottom surfaces.

With uses in many areas of industry, the TT2110 can perform precise measurements on various types of raw materials, components parts, and assembled machinery. It can also be used to monitor all types of pipes and pressure vessels for loss of thickness due to corrosion.

The TT2110 is very easy to use, after a simple calibration to a known thickness or sound velocity, the gauge will give fast and accurate readings in millimetres. Sound velocities for 5 different materials can be pre-set and 10 thickness readings can be stored in the memory.

Features

- Automatic calibration of zero point: automatically correct the system errors
- Automatic non-linear compensation: computer software is used to correct the non- linear errors of the probe for the purpose of improving the accuracy
- The upward and downward adjustment keys enable prompt selection of sound velocity, thickness, and check the thickness memory units
- Signal indication of how good well coupled the probe is to the substrate
- Sound velocity can be measured according to the test block's thickness
- Ten thickness values can be stored without loss after turn-off
- Sound velocity of five different materials can be stored directly – no need to search in the conversion table
- Low voltage indication and Automatic turn-off
- Oil proof protection for longer service life

Thickness check of pressure pipelines

Monitoring of wall thickness of vessels easy to corrode such as oilcans

Thickness monitoring of pressure vessels such as boilers

Quality control of forging and casting parts

Routine maintenance of roads and bridges

Corrosion check of ship walls and bottom

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Technical Specifications

Part Number	Description
Measuring range	1.2 - 225.0mm
Accuracy	+/-1% of Material Thickness + 0.1 mm
Resolution	0.1mm
Sound Velocity range	1000m/s - 9999m/s
Probe Tip diameter	12 mm
Pipe Diameter Limits	20 mm x 3 mm
Measuring units	mm
Frequency	5 MHz
Sound Velocity	5 Preset Sound Velocities
Material	Metallic & Non-Metallic
Auto power off	Yes
Display type	4 Digit LCD
Operating temperature	0-40℃
Power	Two AAA alkaline cells 1.5V
Battery Life	250 hours per battery set
Dimensions	124 x 68 x 27mm
Weight	140g

Packing List

TIME® TT2110 Ultrasonic Thickness Gauge
5P10 Straight Probe
5P10/90 Right Angle Probe
Couplant
2 x AAA Batteries
TIME® Certificate
Warranty Card
Instruction Manual

Accessories

Type of Probe	Working Frequency	Measuring Thickness Range	Minimum Diameter of Measuring Pipe	Feature
5PØ10	5MHz	1.2 - 225mm	10mm	Standard Straight Probe
5PØ10/90°	5MHz	1.2 - 225mm	10mm	Right Angle Probe
7PØ6	7MHz	0.75 - 60mm	6mm	Small diameter probe
SZ2.5P	2.5MHz	3 - 300mm	12mm	High penetration for plastics etc
ZW5P	5MHz	4 - 80mm	12mm	High Temp up to 300°C

5PØ10

5PØ10/90°

7PØ6

SZ2.5P

ZW5P