

## Ultrasonic Thickness Gauge AT-140T3

### Product Description

The instrument is suitable for thickness measurement and corrosion measurement of boilers, oil storage tanks, pipes, pipes, slabs, forgings, flanges, hull, deck, rails and machined parts in petrochemical industry, shipbuilding industry, automobile manufacturing industry, power station and machine manufacturing industry. For most of the ultrasonic materials can be used to measure the thickness of the instrument, such as: metal, ceramic, plastic, nylon, glass and so on.

### Product Feature

- \* Multi-mode: Pulse-Echo mode (used for flaw and pit detection) and Echo-Echo mode (used for measurements eliminating paint or coating thickness).
- \* Using the latest high performance and low power consumption microprocessor technology.
- \* Automatic memory material code and sound velocity value, convenient to use.
- \* Use USB/RS-232 data output to connect with PC.
- \* Provide Bluetooth data output choice.



### Test Philosophy

The digital ultrasonic thickness gauge determines the thickness of a part or structure by accurately measuring the time required for a short ultrasonic pulse generated by a transducer to travel through the thickness of the material, reflect from the back or inside surface, and be returned to the transducer. The measured two-way transit time is divided by two to account for the down-and-back travel path, and then multiplied by the velocity of sound in the material.

### Product Parameter

Unit System	Metric system or British system (optional)
Display	LCD with backlight
Range	Pulse-Echo mode: (1.0~300)mm (in Steel) Echo-Echo mode: (3~30)mm
Resolution	0.1mm / 0.01mm / 0.001inch
Accuracy	$\pm(0.5\%n + 0.05\text{mm})$ , depends on materials and conditions
Measurement Period	4 times per second for single point mode and 10 times per second for scan mode
Sound Velocity	1000m/s~9999 m/s
Unit System	Memory for up to 20 files(99 values for each file)of stored values
Working Mode	There are two working modes of thickness measurement: single mode and scan mode
Operating Conditions	Temperature:0~40°C Humidity:<85%RH
Power Supply	4x1.5V AAA(UM-4)Battery
Dimensions	142mmx72mmx34mm
Weight	175g(Not Including Batteries)

Standard Accessories	Main Unit
	Standard Probe
	Coupling Agent
	Carrying Case(B04)
	Operation Manual

Optional Accessories	Other Special-purpose Probe
	RS-232C Data Cable with Software
	Bluetooth Data Adapter with Software

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