

Ultrasonic Thickness Meter AT-140C

Applications

Used for measuring thickness and corrosion of pressure vessels, chemical equipment, boilers, oil storage tanks, etc. in industries of petroleum, shipbuilding, power station, and machine manufacturing. Applicable to measure the thickness of many materials, e.g. Steel, Cast iron, Aluminum, Red copper, Brass, Zinc, Quartz glass, Polyethylene, PVC, Gray cast iron, Nodular cast iron.



Material Selection

Code	Material	Code	Material
cd01	Steel	cd07	Quartz Glass
cd02	Cast Iron	cd08	Polyethylene
cd03	Aluminum	cd09	PVC
cd04	Red Copper	cd10	Gray Cast Iron
cd05	Brass	cd11	Nodular Cast Iron
cd06	Zinc	xxxx	Sound Velocity



Features

- * With high power of emission and broad band of receiving sensitivity, the gauge can match probes of different frequencies. That makes it easy to measure the rough surface, even cast iron. It is widely used in almost all kinds of industries.
- * The model AT-140C has bidirectional measurements, materials thickness is measurable with know velocity, Conversely velocity is measurable with know thickness.
- * Automatic memory material code and sound velocity value, convenient to use.
- * Coupling symbol indication when measuring.
- * Manual or automatic power off.
- * Applies USB, RS-232, Bluetooth data output.







Specifications

Model	AT-140C		
Housing Material	Aluminum Alloy		
Display	Large Screen LCD		
Measuring Range	0.75~400 mm (45 # steel, Depend on Probe)		
Resolution	0.01 mm / 0.1 mm / 0.001 inch		
Accuracy	± (0.5%n + 0.05)		
Sound Velocity	500~9,990 m/s		
Lower Limit of Pipes	Φ 15 x 2.0 mm Φ 20 x 3.0 mm Determined By Transducer		
Operating Conditions	Temperature	0~40°C	
	Humidity	< 85%RH	
Power Supply	2x1.5V AA (UM-3) Battery		
Dimensions	130x76x32mm		
Weight	340g (Not Including Batteries)		

Standard Accessories	Main Unit	✓
	Probe	5MΦ8 Standard Probe
	Coupling Agent	✓
	Carrying Case	B04
	Operation Manual	✓

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

Probe Technical Parameters

Probe Model	Diagram	Measuring Range	Diameter	Frequency	Operating Temp.
5MHz Φ 8 (UTG-ST) Standard Configure Probe		1.5 ~ 200 mm (Steel)	Φ 8 mm	5M Hz	0 ~ 50 °C
5MHz Φ 8 (UTG-TP) Curved Surface Probe		1.5 ~ 200 mm (Steel)	Φ 8 mm	5M Hz	0 ~ 50 °C
2MHz Φ 10 Plastics Measurement Probe		1.0 ~ 50 mm (Plastics)	Φ 10 mm	2M Hz	0 ~ 50 °C
2MHz Φ 10 Cast Iron Measurement Probe		3.0 ~ 40 mm (Cast Iron)	Φ 10 mm	2M Hz	0 ~ 50 °C
5MHz Φ 6 Thin Material Probe		1.0 ~ 50 mm (Steel)	Φ 6 mm	5M Hz	0 ~ 50 °C
5MHz Φ 12 (UTG-HT) High Temperature Probe		4.0 ~ 100 mm (Steel)	Φ 12 mm	5M Hz	60 ~ 300 °C