

Ultrasonic Thickness Meter
MODEL NO. TM-8812/TM-8812C/TM-8811/TM-8810



TM-8812/TM-8812C

APPLICATION

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



TM-8811



TM-8810



Ultrasonic Probe

KEY 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.
- 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.

Material Selection

Code Material

Cd01: Steel
cd02: Cast Iron
cd03 :Aluminum
cd04: Red Copper
cd05 :Brass
cd06: Zinc
cd07:Quartz Glass

Code Material

cd08: Polyethylene
cd09: PVC
cd10: Gray Cast Iron
cd11: Nodular Cast Iron
xxxx: Sound Velocity

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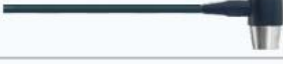

SPECIFICATIONS

Model	TM-8812C	TM-8812	TM-8811	TM-8810
Display	LCD			
Sensor	Ultrasonic Probe			
Measuring Range	1.2~200 mm / 0.05~8 inch		1.5~200 mm / 0.06~8 inch	
Resolution	0.01 mm	0.1 mm	0.1 mm	0.1 mm
Accuracy	$\pm (0.5\%n + 0.1)$		$\pm (0.5\%n + 0.2)$	
Sound Velocity	500~9,990 m/s		1000~9,000 m/s	—
Lower Limit of Pipes	$\Phi 15 \times 2.0 \text{ mm } \Phi 20 \times 3.0 \text{ mm}$ Determined By Transducer			
Operating Conditions	Temperature 0~40°C Humidity < 85%RH			
Power Supply	4x1.5V AAA (UM-4) Battery		4x1.5V AA (UM-3) Battery	
Dimensions	120x62x30mm		160x68x32mm	
Weight	164g (Not Including Batteries)		208g (Not Including Batteries)	

Standard	Main Unit	✓
Accessories	Probe	5M Φ 8 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 $\Phi 8$ (UTG-ST) Standard Configure Probe		1.5 ~ 200 mm (Steel)	$\Phi 8 \text{ mm}$	5M Hz	0 ~ 50 °C
5MHz $\Phi 8$ (UTG-TP) Curved Surface Probe		1.5 ~ 200 mm (Steel)	$\Phi 8 \text{ mm}$	5M Hz	0 ~ 50 °C
2MHz $\Phi 10$ Plastics Measurement Probe		1.0 ~ 50 mm (Plastics)	$\Phi 10 \text{ mm}$	2M Hz	0 ~ 50 °C
2MHz $\Phi 10$ Cast Iron Measurement Probe		3.0 ~ 40 mm (Cast Iron)	$\Phi 10 \text{ mm}$	2M Hz	0 ~ 50 °C
5MHz $\Phi 6$ Thin Material Probe		1.0 ~ 50 mm (Steel)	$\Phi 6 \text{ mm}$	5M Hz	0 ~ 50 °C
5MHz $\Phi 12$ (UTG-HT) High Temperature Probe		3.0 ~ 200 mm (Steel)	$\Phi 12 \text{ mm}$	5M Hz	60 ~ 300 °C

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