Ultrasonic Thickness Meter

TM-8812/TM-8812C

Model: TM-8812 / TM-8812C (Functional Type)
TM-8811 (Basic Type)
TM-8810 (Affordable Type)

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

Ultrasonic Probe

TM-8811 TM-8810

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.

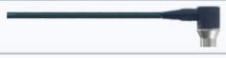
Specifications

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		± (0.5%n + 0.1)		± (0.5%n + 0.2)	
Sound Velocity		500~9,990 m/s		1000~9,000 m/s	——
Lower Limit of Pipes		Φ 15 x 2.0 mm Φ20 x 3.0 mm Determined By Transducer			
Operating Conditions	Temperature	0~40℃			
	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 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 Φ8 (UTG-ST) Standard Configure Probe		1.5 ~ 200 mm (Steel)	Φ8 mm	5M Hz	0 ~ 50 °C
5MHz Φ8 (UTG-TP) Curved Surface Probe		1.5 ~ 200 mm (Steel)	Φ8 mm	5M Hz	0 ~ 50 °C
2MHz Φ10 Plastics Measurement Probe		1.0 ~ 50 mm (Plastics)	Φ10 mm	2M Hz	0 ~ 50 °C
2MHz Φ10 Cast Iron Measurement Probe		3.0 ~ 40 mm (Cast Iron)	Φ10 mm	2M Hz	0 ~ 50 °C
5MHz Φ6 Thin Material Probe		1.0 ~ 50 mm (Steel)	Φ6 mm	5M Hz	0 ~ 50 °C
5MHz Φ12 (UTG-HT) High Temperature Probe		4.0 ~ 100 mm (Steel)	Φ12 mm	5M Hz	60 ~ 300 °C