

Mul-ti Mode Ultrasonic Thickness Gauge TM-8819-T3



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.

Features

- * 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.

Principle

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.

Specifications

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