

Mul-ti Mode Ultrasonic Thickness Meter



RUM-7610

Model: RUM-7610 (Eliminate coating thickness)

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.

Features

- * Multi-mode: Pulse-Echo mode (used for flaw and pit detection) and Echo-Echo mode (used for measurements eliminating paint or coating thickness).
- * 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.

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: (0.65~600)mm (in Steel)
	Echo-Echo mode: (3~60)mm
Resolution	0.1mm / 0.01mm / 0.001inch
Accuracy	$\pm(0.5\%n + 0.05)$, 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	1000~9999 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	142x72x34mm
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