

Ultrasonic Thickness Gauge

UFM-7



UFM-7 ultrasonic thickness gauge made by our factory is a simple-to-use, highly accurate, hand-held ultrasonic thickness gauge with the operating principle of ultrasonic wave measuring. It can measure quickly, nondestructively and precisely with a resolution of 0.001in/0.01in or 0.01mm/0.1mm. This instrument can be widely used in the fields such as manufacturing, metal processing, chemistry, oil and gas and business inspecting for measuring the thickness of all sorts of materials where ultrasonic wave can spread through with a constant speed and get the reflection from the back side. Apart from making accurate measure on various kinds of plates and processing components, it can also make detection on various kinds of pipes and pressure containers of the manufacturing facilities about their thickness loss after corrosion. UFM-7 is an incensory specialized instrument for material protection.

Technical specifications:

Minimum pipe diameter: 15 mm

Measuring error: ± 0.002 in or ± 0.05 mm

Repeatability: ± 0.025 mm or ± 0.001 in

Operating temperature: -10°C ... $+130^{\circ}\text{C}$

Power: 1.5 V AA batteries, warning with low voltage

Technical Specification:

UFM-7 Wall Thickness Gauge
Normal temperature probe
Carrying case
Two 1.5V AA alkaline batteries
Couplant
Operating manual
Certification of quality

Operating principle:

Ultrasonic pulse/echo method with dual-element probes

Probe zero adjustment:

Selectable: 1-point calibration: normal measurement
2-point calibration: curve surface measurement or other special application with a high precision

V-path correction: Automatic

Measuring range:

0.8mm to 300mm ; 0.031in to 11.81in
Depending on probe, material and surface condition

Digital resolution:

H < 4in : 0.001in / 0.01in or 0.01mm / 0.1mm
H ≥ 4in : 0.01in or 0.1mm

Units: Selectable: inch or mm

Display:

128×64 dot-matrix LCD screen (1.65in × 2.24in ; 42mm × 57mm)
EL backlight and switchable contrast ratio
Digit height: 0.54in or 13.75mm

Measurement update rate:

4 Hz in standard measurement mode
25 Hz in MIN capture mode

Material velocity range: 1000 to 9999 m /s; 0.039 to 0.394 inch/ μ s

Power: Two 1.5V AA alkaline batteries. Warning with low battery voltage

Operating time:

Up to 200 hours (without backlight) with alkaline batteries, depending on operating mode

Auto shut-off: After 5 minutes of non-use

Operating temperature: -10°C to + 130°C

Size: 5.86in × 2.87in × 1.25in ; 149mm × 73mm × 32mm (H×W×D)

Weight: 200g ; 7oz (including batteries)

Data logger capacity: Up to 500 readings can be divided into a maximum of 5 files (user-selectable)

Operating language: English

Measuring error:

Up to 1in : ±0.002in or ±0.05mm
Above 1in : ±0.5%H

H is the height of the testing object

Repeatability: ±0.001in or ±0.025mm