

Ultrasonic Thickness Gauge UMap - 1D



Ultrasonic thickness gauges measure the thickness of ultrasonic wave well-conductive materials with parallel top and bottom surfaces. It measures the thickness of both metal (steel, aluminum, titanium, etc.) and nonmetal (plastics, ceramics, glass, etc.) parts. They are commonly used to measure (remaining) wall thickness of pipes and pressure vessels.

This model has through coating (echo to echo) mode. The feature allows the gauge ignore the coatings while taking measurement. It has higher accuracy when testing parts with coatings compared to models without through coating mode.

Features: mm/inch display, zero-point or two-point calibration, coupling condition indication, built-in test block for field calibration, upper or lower limit setting, easy to operate.

Another useful feature is Minimum Capture: The thinnest readings obtained will show on the display to help identifying weak spots.

Optional software is available.

Please select UMap-2D in stead if your applications involve high temperature testing.

Specifications:

Measuring range	0.8 mm to 300 mm (0.031 inch to 11.81 inch) in standard mode 3.0 mm to 18.0 mm (0.118 inch to 0.709 inch) thru coating mode
Display resolution	0.001" or 0.1 mm
Accuracy	±0.1 mm (0.002") below 1", 1% H above 1"
Repeatability	±0.0011" or ±0.025 mm
Velocity	1000 to 9999 m/s, 0.039 to 0.394 inch/μs
Frequency	4 Hz in standard measurement mode 25 Hz in minimum capture mode
Onboard memory	500 readings in maximum 5 files
Batteries	2×AA batteries
Operating hours	200 working hours without backlight
Operating temperature	14 °F to 122 °F (10 °C to 50 °C), to -4 °F (-20 °C) on request
Dimensions	149×73×32 mm (5.86"×2.87"×1.25")
Weight	200 g (7 oz) including batteries

Standard accessories:

UMap-1D main unit
Standard probe (PT-08 5 MHz)
Two AA batteries
Ultrigel II coupling gel 2 oz
Instruction manual
NIST calibration certificate
Carrying case

Optional accessories:

Protection rubber sheath (jacket)
Software and USB cable
Ultrigel II coupling gel 4 oz temperature -10 °F to 210 °F
Step test blocks



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