



Ultrasonic Thickness Gauge

Part # - 3814-A, 3815-A

Our Ultrasonic Thickness Gauge is capable of measuring the thickness of a wide variety of materials, including composite substrates and laminates. This instrument gives you the ability to gauge thickness measurements when instruments such as calipers cannot reach both sides of the test piece. This is particularly beneficial when measuring wind blade thickness, large aerospace components and industrial fiberglass tanks and piping. The Ultrasonic Thickness Gauge can measure a wide range of materials including metals, plastics, ceramics, glass, and other ultrasonic conductive materials down to 0.01mm. It is equipped with a large, easy-to-read, backlit LCD display, and its internal memory can store up to 500 measurements at a time. Our Ultrasonic Thickness Gauge comes complete with ultrasonic couplant gel, probe, batteries and a hard-carrying case.

Our Ultrasonic Thickness Gauge is available with NIST certification. This is an assurance program that certifies that a laboratory, manufacturer or individual product is fully equipped to calibrate equipment to National Institute of Standards and Technology (NIST) standards.

Product Features

- Large, easy-to-read backlit LCD display
- User selectable unit of measure (in/mm)
- Internal memory stores up to 500 measurements
- Displays sound velocity at the touch of a button
- Zero adjustment button
- User adjustable High/Low alarms
- Built-in two-point calibration function
- Auto sleep, shut off and low battery indicator

Specifications

Operating Temperature - 32 to 122°F (0 to 50°C)

Storage Temperature - -4 to 140°F (-20 to 60°C)

Operating Humidity Range - 20 to 80%

Dimensions - 5.9 x 2.9 x 1.3" (150 x 74 x 32mm)

Weight - 8.4oz (238g)

Measuring Range - 0.03 to 15.7" (0.65 to 400mm)

Accuracy - $\pm 0.04\text{mm}$ ($< 10\text{mm}$)

$\pm (0.1\% \text{ reading} + 0.04\text{mm})$ ($< 100\text{mm}$)

$\pm (0.3\% \text{ reading})$ ($> 100\text{mm}$)

Resolution - 0.01mm or 0.1mm ($< 100\text{mm}$)

0.1mm ($> 100\text{mm}$)

Velocity Range - 1000 to 9999 m/s (0.039 to 0.394 in/ μs)

Compatible Materials - Ultrasonic conductive materials (i.e. metals, plastics, ceramics, composites, epoxies, glass)

Sampling Time - Less than 1 sec.

Display - 4-Digit, Backlit LCD

Probe Length - 3' (36")

Internal Memory - Yes (up to 500 readings, 5 files up to 100 each)

Low Battery Indicator - Yes

Power Supply - 2 AA Batteries

Battery Life - Approx. 100 hours (Alkaline)

Product Certifications – CE