



MMX-6 MULTI- MODE ULTRASONIC THICKNESS GAUGE

The MMX-6 is a versatile ultrasonic thickness tester that combines features like fast scan, alarm and data logging together with multi-mode operation. No need to remove or allow for errors due to paint and coatings. Conveniently toggle between pulse-echo mode (detect flaws & pits) and echo-echo mode (eliminate paint & coating thickness). The MMX-6 uses a highly-damped dual-element transducer for both modes thereby eliminating the need to switch between transducer types.

Physical

Weight:

10 ounces (with batteries).

Size:

2.5 W x 4.5 H x 1.24 D inches
(63.5 W x 114.3 H x 31.5 D mm).

Operating Temperature:

-20° to 120°F (-30° to 50°C).

Case:

Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed).

Keypad

Sealed membrane that is resistant to both water and petroleum products.
Nine tactile-feedback keys.

Transducer

Dual-element (transmit and receive).

1 to 10 MHz frequency range.
Special high-damped transducers available for Through Paint & Coating measurements.

Locking quick disconnect LEMO connectors.

4 foot cable.

Custom transducers available for special applications.

Power Source

Two 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 200 hours on alkaline and 130 hours on NiCad. Display flashes when battery is low. Unit turns off automatically when battery is too low to operate reliably.

Display

Multi-function 4.5 digit liquid crystal display with 0.500 inch numerals, backlit for use in poor light conditions.

Backlight is selectable on/off/auto (illuminates only when taking a measurement).

Measurements displayed in inches, inches/microsecond, millimeters, and meters/second. Bar graph indicates stability of reading.

tem 1 to 1000 readings.

OBST indicates no reading.

Certification

Factory calibration traceable to national standards.

Warranty

5 year limited.

Measuring

Range:

Pulse-Echo Mode (Pit & Flaw Detection) measures from 0.025 to 19.999 inches (0.63 to 500 millimeters).

Echo-Echo Mode (Through Paint & Coatings) measures from 0.1 to 1 inch (2.54 to 25.4 millimeters).

Switch to select English or Metric units.

Resolution:

0.001inch (0.01 millimeter)

Velocity Range:

0.0492 to .3937 in./μs.
(1250 to 10,000 meters/second)

Built in:

Stainless steel reference disk for probe zeroing.

Four readings per second for single point measurements or 16 per second in **Scan Mode**—captures the minimum thickness.

Single and two point calibration option included.

Features

Multi-Mode:

Toggle between Pit & Flaw Detection (Pulse Echo Mode), and Through Paint & Coatings (Echo-Echo Mode) with the single press of a button.

Alarm Mode:

Enter a minimum acceptable thickness value. If measurement falls below minimum, red LED will illuminate and sound beeper. If measurement is above minimum value, green LED will illuminate.

Data Output:

RS232 output sends data to a serial printer, a computer or other external storage device