

THE MMX SERIES ULTRASONIC THICKNESS GAUGES

DAKOTA ULTRASONICS offers a rugged multi-mode MMX series. The **MMX-6** and **MMX-6DL** have not only been combined with all the durability and features of the established MX series gauges, but have also been equipped with the ability to measure through painted or coated materials and eliminate the thickness of the paint or coating from the displayed measurement.

APPLICATIONS: Corrosion & Pitting • Tube & Pipe • Tanks a Boilers • Glass • Variety of Applications

SPECIFICATIONS

Physical

Weight: 10 ounces (with batteries).
Size: 2.5W x 4.5H x 1.24D inches (63.5W x 114.3H x 31.5D mm).
Operating Temp: -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 highly damped transducers available for Thru-Paint & Coating measurements.
Locking quick disconnect LEMO connectors with integral 4 foot long cable.
Custom transducers available for special applications.



Measuring

Resolution: 0.001 inch (0.025 millimeter)
Velocity Range: 0.0492 to .3937 in/ μ s (1250 to 10,000 meters/second)
Range: Pulse - Echo Mode (Pit & Flaw Detection) measures from 0.025 to 19.999 inches (0.63 to 500 millimeters).
Echo - to - Echo Mode (Thru-Paint & Coatings) measures from 0.1 to 1 Inch (2.54 to 25.4 millimeters).
Switchable to either English or Metric units.
Built in: Stainless steel reference disk for probe zero function.
Measurement Rate: Four readings per second for single point measurements or 16 per second in Scan Mode-captures the minimum thickness.
Calibration: Single and two point calibration option included.

Features

Multi-Mode: Toggle between Pit & Flaw Detection (Pulse Echo Mode), or Through Paint & Coatings (Echo-Echo Mode) with a single button.
Alarm Mode: Enter a minimum acceptable thickness value. If measurement falls below minimum, red LED will illuminate and beeper sounds.
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.

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 LCD display with 0.500 inch high 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.

Internal Data Logger (MMX-6DL only)

Automatic numeric Data Logging system 1 to 1000 readings.
OBST indicates no reading.
Windows® base software and interface cable included.

Certification

Factory calibration traceable to national standards.

2 year limited Warranty On gauges only, 30-day warranty on transducers and cables.



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