

MMX-6 and MMX-6-DL Multi-mode Thickness Gauges

The **MMX-6** is a Multi-Mode thickness gauge that has the ability to measure through painted or coated surfaces and eliminate the thickness of the paint using a dual element style transducer in echo-echo mode. The **MMX-6** can also effectively find pits and flaws with the press of a single button. The **MMX-6** has all the features of the **MX-3** plus: An audible and visual alarm mode. In alarm mode, the user can set a nominal thickness value. When measurements fall above or below the set nominal value, a red light and audible beeper is displayed and sounded. The **MMX-6** is also equipped with an RS232 port out. This enables the user the ability to send measurements to an external data collection device or directly to a PC.

The **MMX-6** is a simple to use hand-held Ultrasonic Thickness Gauge with the ability to measure through paint and coatings and eliminate the thickness of the paint or coating. The **MMX-6** uses a dual element style transducer. With the single press of a button, the **MMX-6** can be switched between pit or flaw mode (pulse-echo), and through paint/coatings mode (echo-echo) for maximum inspection efficiency. The **MMX-6** is equipped with a bundle of features to make your job easier: Alarm mode, high speed scanning, and data send are the main features of the **MMX-6**. The **MMX-6** comes as a complete kit, ready to use, and is backed by Dakota Ultrasonics **5 year limited warranty**.

Applications:

Corrosion & Pitting
Tube & Pipe
Tanks
Boilers
Glass
Variety of Applications

MMX-6
#119-Z-142-0001

MMX-6-DL
#119-Z-143-0001

Specifications

Physical

Weight: 10 ounces

Size:

2.5 W x 4.75 H x 1.25 D inches (63.5 W 120.7 H x 31.8 D mm)

Operating Temperature:

-20° to 120° F (-30° to 50° C)

Case:

Extruded aluminum body / nickel plated aluminum end caps.

Resistant to impact and environmentally sealed.

The **MMX-6DL** has all the features of the **MMX-6** plus: An Internal data logger that stores a total of 1000 readings in 10 files of 100 readings each file. This gives the user the ability to store, and download the stored measurements directly to a PC using our DakView software program. The software and transfer cable is included in the **MMX-6DL** kit.



Keypad

Sealed membrane that is resistant to both water and petroleum products.

Nine tactile-feedback keys.

Data Logger

Automatic numeric Data Logging system 1 to 1000 readings.
MMX-6-DL (Only)

Transducer

Dual element (transmit and receive).
1 to 10 MHz frequency range.

Special high damped transducers available for use with
through paint or coating measurements).

Locking quick disconnect LEMO connectors.

4 foot cable.

Optional cable lengths up to 100 feet.
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.

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 thickness readings to a printer, computer
or other external storage device.

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 0.100 to 1.0 inches (2.54 to 25.4 millimeters).

Switch to select English or metric units.

Resolution:

0.001 inches (0.01 millimeters)

Velocity Range:

.0492 to .3937 in/ μ s 1250 to 10,000 meters/sec

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.