

DAKOTA ULTRASONICS

Take your MX-3 / MMX-6
underwater with you!

UMX Underwater Enclosure Kit

This portable solution
offers off-shore inspectors
a very versatile system
for underwater corrosion
surveys:

UMX ENCLOSURE

- ▶ Clear Plexiglas construction.
- ▶ 300 feet depth rating.
- ▶ Stainless steel connectors, latches, and control bar.
- ▶ Simple to install and operate.
- ▶ 1 year limited warranty.

MX-3 / MMX-6 GAUGES

- ▶ Aluminum extrusion construction.
- ▶ Measuring range .025" – 19.999".
- ▶ 80 hours operation on 2 AA batteries.
- ▶ Pulse-Echo (pit & flaw), and Echo-Echo (thru-paint) mode options.
- ▶ One & Two point calibration option.
- ▶ High speed scan mode.

The UMX Underwater Enclosure & MX-3/
MMX-6 Thickness Gauge Combination

UMX UNDERWATER ENCLOSURE

Take your **MX-3** or **MMX-6** underwater with the **UMX** underwater enclosure. This custom designed housing provides a convenient method for off-shore inspections. The combination was designed to inspect for corrosion in a variety of off-shore applications: ships, pipes, storage vessels, docks, pilings and piers. The **MX-3** is a pulse-echo style thickness gauge for use on non-coated materials, while the **MMX-6** is equipped with an additional echo-echo feature to measure coated materials and eliminate the coating thickness.

SPECIFICATIONS

Physical

Weight:

MX-3 / MMX-6: 10 ounces (with batteries).

UMX: 2.2lbs (1 kg).

Size:

MX-3 / MMX-6: 2.5 W x 4.5 H x 1.24 D in (63.5 W x 114.3 H x 31.5 D mm).

UMX: 3.5 W x 7.5 H x 2.75 D in (63.5 W x 190.5 H x 69.85 D mm).

Operating Temperature:

-20 to 120 F (-30 to 50 C).

Case:

MX-3 / MMX-6: Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed).

UMX: Custom formed plexiglass with stainless steel shaft, connectors, and latches (gasket sealed).

Depth Rating: 300 ft. (91.44 M)

Keypad

MX-3 / MMX-6: Sealed membrane that is resistant to both water and petroleum products.

Four or Six tactile-feedback keys.

UMX: Sliding stainless steel shaft.

Transducer

Dual-element (transmit and receive).

1 to 10 MHz frequency range.

Variety of standard & underwater transducers and frequencies.

MX-3 / MMX-6: LEMO 00 connectors.

UMX: Underwater LEMO connectors.

4 foot cable.

Custom transducers and cable lengths available on request.

Power Source

Two 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 80 hours on alkaline and 20 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).

Bar graph indicates stability of reading.

Measuring

Range:

Measures from 0.025 to 19.999 inches (0.63 to 500 millimeters). Range dependent on material and transducer type.

Units:

English & Metric.

Resolution:

0.001 inches (0.01 millimeters).

Velocity Range:

0.0492 to .5511 in/μs.
(1250 to 14,000 m/sec).

Four readings per second for single point measurements.

Computer Interface

RS232 serial interface. PC software & USB converter cable included.

Certification

Factory calibration traceable to NIST & MIL-STD-45662A.

Warranty

MX-3 / MMX-6: 5 year limited.

UMX: 1 year limited.



MADE IN THE USA

Distributed by:



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