

# DAKOTA ULTRASONICS

The  
Standard  
Has Been  
Set!

## The MX Series from DAKOTA ULTRASONICS

**PACKAGING** All Metal Case.

The units are sealed with gaskets to protect them from harsh working environments.

**SIZE** 2.5"W x 4.5"H x 1.2"D. The units are small and portable and will operate on 2 AA batteries for 80 hours. Very compact and convenient to transport to any job.

**FEATURES** The MX Series offers the features you have requested; Differential Mode, High Speed Scan Mode, Alarm Mode and On-Board Data Logging.

**WARRANTY** All gauges are covered by a 5 year limited warranty.

**SUPPORT** Dakota excels in in this area. Our Engineering and technical staff, combined with a knowledgeable and friendly sales staff, are always here to help out.

**AS YOU CAN SEE**, the standard has been set with the MX SERIES. Please give us a call to discuss your applications.



SOUND SOLUTIONS

# MX SERIES THICKNESS GAUGES

**DAKOTA ULTRASONICS** rugged thickness gauge family has been designed and built to satisfy the roughest industry conditions. The features offered in the **MX Series** allow the user to select a quality tool that will meet or exceed their specific application needs. Our 5 year limited warranty indicates how we feel about the reliability and durability of the **MX Series**.

## SPECIFICATIONS

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

**Case:**

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

### Keypad

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

Six or nine tactile-feedback keys.

### Transducer

Dual-element (transmit and receive).

1 to 10 MHz frequency range.

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 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.

### Software

Comes complete with cable and PC software (MX-5 DL only).

### Memory

Numeric data storage, 10 files of 100 readings per file, for 1000 readings (MX-5 DL only).

### Certification

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

### Warranty

5 year limited.

### 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/ $\mu$ s.  
(1250 to 14,000 m/sec)

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

### Features (MX-5, MX-5-DL)

**Differential Mode:**

Enter acceptable thickness value, unit will display +/- the difference from the value entered.

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



## MADE IN THE USA

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