

# DAKOTA ULTRASONICS



## 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.

The Standard Has Been Set!



# 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 read-  
ings (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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