

# DAKOTA ULTRASONICS

**A New  
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 over 200 hours. You can take them anywhere to do the job.

**FEATURES** The MX Series offers features you have requested. The 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** Each member of our Sales and Engineering staff have at least 10 years experience in the field of Ultrasonics. We are here to help.

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



**TECHNOLOGY WITH A PURPOSE**

# THE NEW MX THICKNESS GAUGES

**DAKOTA ULTRASONICS'** new MX Series has arrived. This rugged thickness gauge family has been designed and built to satisfy the roughest industry conditions. The variety of features offered in the **MX-3**, **MX-5**, and **MX5-DL** 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 new **MX Series**.

## SPECIFICATIONS

### Physical (all MX units)

**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 120°F (-30° to 50°C).

**Case:**

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

### Keypad (all MX units)

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

Six or nine tactile-feedback keys.

### Transducer (all MX units)

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 (all MX units)

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 (all MX units)

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.

### Certification (all MX units)

Factory calibration traceable to national standards.

### Internal Data Logger (MX-5DL only)

Automatic numeric Data Logging system 1 to 1000 readings.

OBST indicates no reading.

### Warranty (all MX units)

5 year limited.

### Measuring (all MX units)

**Range:**

Measures from 0.025 to 19.999 inches (0.63 to 500 millimeters).

Switch to select English or Metric units.

**Resolution:**

0.001 inch (0.01 millimeter)

**Velocity Range:**

0.0492 to .3937 in./ $\mu$ s.  
(1250 to 10,000 meters/second)

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.

### Features (MX-5, MX5-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 output sends data to a serial printer, a computer or other external storage device.



Distributed by:

Please feel free to call for more information

**DAKOTA ULTRASONICS**

1680B Mansfield Street, Santa Cruz, CA 95062

Phone 831.465.8585 Fax 831.465.8558

Visit our Web site @ [www.dakotaultrasonics.com](http://www.dakotaultrasonics.com)