


## MX Series Fixed Velocity Thickness Gauges



The **MX-1** and **MX-2** are fixed velocity gauges making them affordable precision tools that require no special training to operate.

The **MX-1** will hold a single velocity, making it the perfect choice where one material is being tested day after day. With the preset velocity in the gauge, you simply turn on the gauge and you are ready to work. The velocity is set in the **MX-1** with a simple software program that is supplied with the unit.

The **MX-2** is ideal for the person that tests a few different materials regularly. The **MX-2** contains 8 velocities of common materials and 2 velocities that the user can set using a simple software program.

The **MX-1** and **MX-2** are packaged in all metal cases, sealed with gaskets to protect them from harsh working environments. These gauges can go where you go, to do the work you do, saving you time and money, making fast accurate measurements.

Dakota Ultrasonics offers quality gauges that are reliable, innovative and competitively priced—all backed by the longest warranty in the business—5 full years.

# THE MX SERIES THICKNESS GAUGES

DAKOTA ULTRASONICS' 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**.

## S P E C I F I C A T I O N S

### 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:**

-20P to 120PF (-30P to 50PC).

**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.

A S O N A T E S T P L C G R O U P C O M P A N Y

Distributed by:



Please feel free to call for more information

## DAKOTA ULTRASONICS

300 El Pueblo Road, #100

Scotts Valley, CA 95066

Ph (831) 431-9722

Fax (831) 431-9723

Website: [www.dakotaultrasonics.com](http://www.dakotaultrasonics.com)

Email: [info@dakotaultrasonics.com](mailto:info@dakotaultrasonics.com)