

# DAKOTA ULTRASONICS

The  
Standard  
Has Been  
Set!

## The MX Series Thickness Gauges

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



S O U N D   S O L U T I O N S

# 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

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