



## MMX-7 Multi-Mode Thickness Gauge with B-Scan

- ▶ The physical size, weight, and display resolution are just a few of the benefits of the **MMX-7**.
- ▶ The time-based B-Scan feature of the **MMX-7** displays a cross section of the opposite surface allowing inspectors to see the contour of the back surface.
- ▶ Use the Multi-Mode feature to measure through and eliminate paint and coatings. Built-in automatic gain control.
- ▶ Selectable low, medium, and high gain settings offer the inspector the additional punch power for materials that are hard to penetrate.
- ▶ The variety of calibration options is just one more example of the **MMX-7's** versatility.
- ▶ Store up to 64 custom setups. Factory setups are included for common applications.
- ▶ **MMX-7** is equipped with an alpha-numeric data logger to provide increased versatility for those custom reporting requirements.
- ▶ The built-in transducer types offer increased linearity between transducers.
- ▶ The high speed scan feature speeds up the inspection process by making 32 measurements per second. Remove transducer from the test material and display the minimum measurement scanned.
- ▶ Use the visual alarm to set Hi and Lo limits for applications requiring specific tolerances.
- ▶ **MMX-7** also comes complete with our Windows® PC software for transferring data to and from a PC, viewing B-Scans, set-ups, and general requirements.
- ▶ 2 year limited warranty



# THE MMX-7 SPECIFICATIONS

## Physical

### Size:

Width (2.5 in./ 63.5 mm.)  
Height (6.5 in./165 mm.)  
Depth (1.24 in./31.5mm.)

### Weight:

13.5 ounces (with batteries).

### Keyboard:

Membrane switch with twelve tactile keys.

### Operating Temperature:

-14° to 140°F (-10° to 60°C).

### Case:

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

### Data Output:

Bi-directional RS232 serial port.  
Windows® PC interface software.

### Display:

1/8 in. VGA grayscale display (240 x 160 pixels). Viewable area 2.4 x 1.8 in. (62 x 45.7 mm). EL backlit (on/off/auto).

## Ultrasonic Specifications

### Measurement Modes:

Pulse-Echo (flaws, pits)  
Echo-Echo (thru-paint)

### Pulser:

Square wave pulser.

### Receiver:

Selectable low, medium, or high gain in pulse-echo mode, or AGC gain control in echo-echo mode.

### Timing:

20 MHz with ultra low power 8 bit digitizer.

## Warranty

2 year limited

## Certification

Factory calibration traceable to national standards.

## Power Source

Three 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 150 hours on alkaline and 100 hours on NiCad (charger not included.)

Auto power off if idle 5 min.

Battery status icon.

## Measuring

### Range:

**Pulse-Echo Mode:** (Pit & Flaw Detection) measures from 0.025 to 9.999 in. (0.63 to 254 mm.).

**Echo-Echo Mode:** (Thru Paint & Coatings) measures from 0.050 to 4.0 in. (1.27 to 102 mm.). Range will vary +/- depending on the thickness of coating.

**Resolution:** +/- .001 inches (0.01 mm.)

### Velocity Range:

.0492 to .3936 in./ms  
1250 to 9999 meters/sec

Single and Two point calibration option, or selection of basic material types.

**Units:** English & Metric

## Display

### Display Views:

**Large Digits** Standard thickness view. Digit Height: 0.400 in. (10mm).

**B-Scan** Cross sectional view. Display speed of 15 secs per screen.

**Scan Bar Thickness** 6 readings per second. Viewable in B-Scan and Large Digit views.

**Repeatability Bar Graph** Bar graph indicates stability of reading.

## Data Logger (Internal)

12,000 and B-Scans (alpha numeric storage).

### Memory:

16 megabit non-volatile ram.

## Transducer

### Transducer Types:

Dual Element (1 to 10 MHz).

Locking quick disconnect "00" LEMO connectors.

Standard 4 foot cable.

Custom transducers and cable lengths available for special applications.

## Features:

### Setups:

64 custom user-definable setups. Factory setups available for common applications.

### Selectable Transducers:

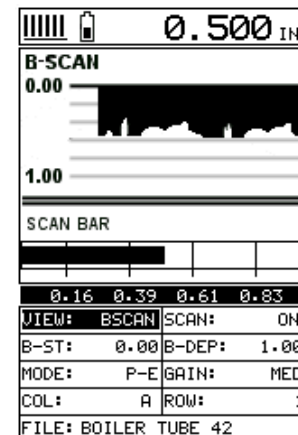
Selectable transducer types with built-in dual path error correction for improved linearity.

### Alarm Mode:

Set Hi and Lo tolerances with audible beeper and visual LEDs.

### Fast-Scan Mode:

Takes 32 readings per second and displays the minimum reading found when the transducer is removed. Display continuously updates while scanning.



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:

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