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

The MMX-7 has all features of the MX & MMX gauges with some additional features and advantages. Selectable Large Digits and B-Scan display options. An internal data logger that stores a total of 12,000 readings and waveforms, 64 user custom definable setups, selectable transducer table for improved linearity, thru paint mode with the single press of a button, multiple calibration and material selection options, and selectable low, medium or high gain options. This is all nicely packaged in a very mini portable aluminum extrusion for extra durability and portability! The MVX/PVXview or Java-based PC software makes this thing a complete kit.

SPECIFICATIONS		
PHYSICAL Weight: 13.5 ounces (with batteries). Size: 2.5 W x 6.5 H x 1.24 D inches (63.5 W x 165 H x 31.5 D mm). Operating Temperature: -14° to 140°F (-10° to 60°C). Keyboard: Membrane switch with twelve tactile keys. Case: Extruded aluminum body with nickel-plated aluminum end	MEASURING Range: Pulse-Echo Mode: (Pit&Flaw Detection) measures from 0.025 9.999 inches (0.63 to 254 millimeters). Echo-Echo Mode: Thru Paint & Coatings) measures from 0.05 to 4.0 inches (1.27 to 102 millimeters). Range will vary +/- depending on the thickness of coating. Resolution: +/- .001 inches (0.01 mm) Velocity Range: .0492 to .3936 in./ms	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.

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 45.7mm).
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.

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.

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 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 readings and B-Scans (alpha numeric storage).
OBSTRUCT to indicate inaccessible locations.

MEMORY:

16 megabit non-volatile ram.

FEATURES

Setups: 64 custom user-definable setups.
Factory setups can also be edited by the user.
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.

CERTIFICATION

Factory calibration: traceable to national standards.