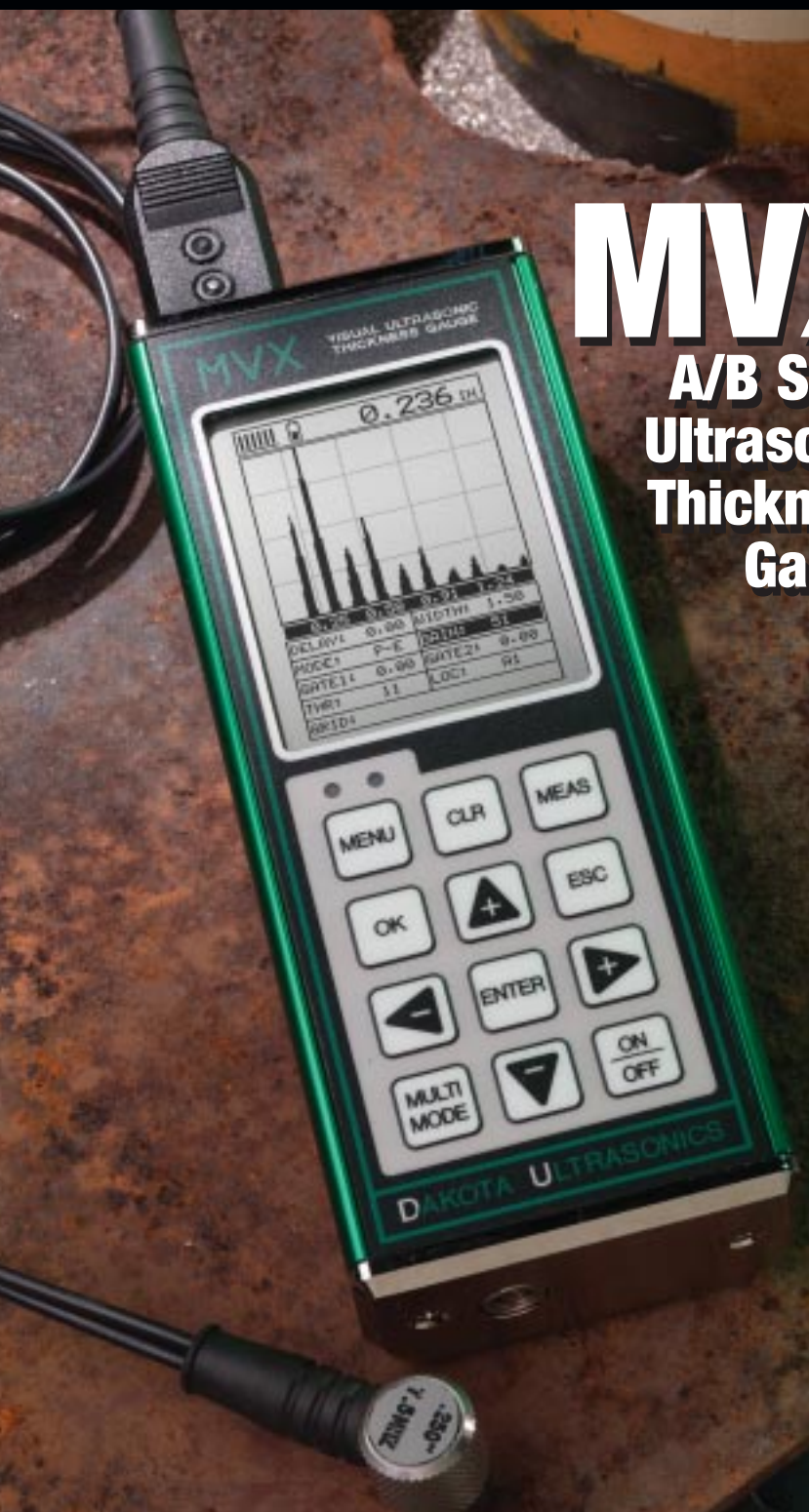
MVX

A/B Scan Ultrasonic Thickness Gauge



- The physical size, weight, and display resolution are just a few of the benefits of the **MVX**.
- The adjustable square wave pulser provides the flexibility necessary for both high resolution and penetration requirements.
- The **MVX** is equipped with multiple viewing options to provide users with a complete set inspection tools: (RF waveform, +/- Rectified waveform, Time based B-Scan, and Large Digits).
- The A-Scan rectified mode is commonly used for detecting flaws/pits in pulse-echo mode and measuring through paint and coatings in echo-echo mode.
- The time-based B-Scan feature of the **MVX** displays a cross section of the test material. It is commonly used to display the profile of the bottom surface of the test material.
- Built in hardware AGC gain control for through paint measurements in multi mode operation.
- The variety of calibration options is just one more example of **MVX's** overall versatility.
- The **MVX** has the ability to store 64 custom user defined setups. All factory setups can be selected, edited and saved to any setup location.
- **MVX** is equipped with an alphanumeric data logger to provide increased versatility for those custom reporting needs.
- 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 tesst material, and display the minimum measurement scanned.
- Use the visual alarm to set hi and lo limits for applications requiring specific tolerances. If the actual thickness value is above or below the limits, a red light is illuminated.
- Use the find feature to locate the detection point, while automatically adjusting the display to bring the signal into view.
- **MVX** also comes complete with our Windows® PC software for transferring data to and from a PC.
- 2 year limited warranty

THE MVX 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 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 with adjustable
pulse width (spike, thin, wide).

Receiver:
Manual or AGC gain control with
40dB range, depending on mode
selected.

Timing:
20 MHz with ultra low power
8 bit digitizer.

Certification

Factory calibration traceable to
national standards.

Warranty

2 year limited

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
9.999 inches (0.63 to 254 millime-
ters).

Echo-Echo Mode: Thru Paint &
Coatings) measures from 0.1 to 4.0
inches (2.54 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
1250 to 9999 meters/sec

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

Units: English & Metric

Display

Display Views:

A-Scan Rectified +/- (flaw view)
RF (full waveform view)

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

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

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 pages of memory (alpha
numeric storage).

Page contents:

1 reading and 1 waveform per page.

OBSTRUCT to indicate
inaccessible locations.

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 applica-
tions.

Features:

Setups:

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

Gates:

Single gate in pulse-echo mode, or
single gate with holdoff in echo-echo
mode. Adjustable threshold.

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.

CE approved

04-101/5M?

A SONATEST PLC GROUP COMPANY

Distributed by:

DAKOTA ULTRASONICS
SOUND SOLUTIONS

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