

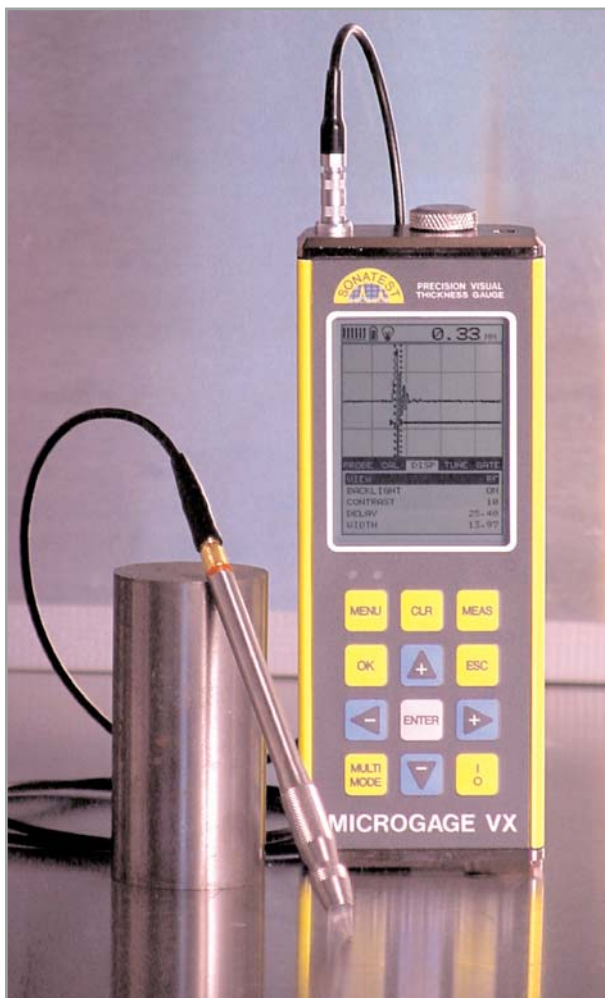
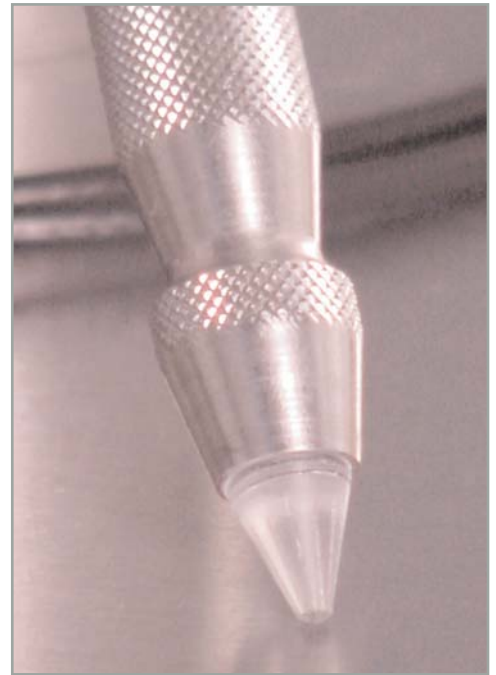
MICROGAGE VX

The **Microgage VX** is fitted with an adjustable square wave pulser, which provides the flexibility necessary for both high resolution and penetration requirements.

The selectable viewing options to provides users with additional flexibility during operation: (RF waveform, +/- Rectified waveform, Large Digits with Scan Bar).

The A-Scan rectified mode of this model is commonly used for detecting flaws/pits in pulse-echo mode, measuring thru-paint and coatings in echo-echo mode. Whereas the time-based B-Scan feature displays a cross section of the test material. This is mainly used to display the profile of the opposite surface of the test material.

Adjustable resolution settings enhance the Microgage VX's flexibility, with the AGC gain control allowing multiple echo and thru-paint measurement.



Other versatile features of this unit includes, multiple calibration options; One-Point, Two-Point, or selection from a material list and 16 factory setups and 48 user-defined setups, with the User-defined setups that can be edited for custom applications.

Equipped with an alpha-numeric data logger to provide increased versatility for those custom reporting needs. The High Speed Scan feature speeds up the inspection process by taking 32 measurements per second. Removing the transducer from the test material displays the minimum measurement scanned.

The Auto-Find feature locates the detection point(s) and adjusts the display settings to bring the waveform into view.

2 year limited warranty.

APPLICATIONS

Stamping Industry
Aerospace Industry
Plastics Industry
Anything with thin wall components

Ultrasonic Precision A-Scan Thickness Gauge

SPECIFICATIONS

Physical

Weight:

13.5 ounces (with batteries).

Size:

63.5 W x 165 H x 31.5D mm
(2.5W x 6.5H x 1.24D inches).

Operating Temperature:

-10° to 60°C (-14° to 140°F).

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:

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

Ultrasonic Specifications

Measurement Modes:

Pulse-Echo (Precision-General purpose)
Interface-Echo (Precision-Thick materials)
Echo-echo (Precision- 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:

40 MHz with ultra low power
8 bit digitizer.

Measuring Range:

Interface-Echo Mode: Steel
1.27 - 25.4mm (0.0580-1.0 in)
Plastics from 0.127mm (0.005in)

Echo-Echo Mode: Steel
0.15 - 12.7mm (0.006 - 0.500 ins).

Pulse-Echo Contact: Steel
1 - 254 mm (0.040 to 10.0 ins)
Plastics from 0.254mm (0.10 ins)

Echo-Echo Contact: Steel
thru paint 2.54 - 76.2mm
0.100in - 3.00 in

Resolution: Selectable
+/- 0.01mm (.001in)
+/- 0.001mm (.0001in)

Velocity Range:

1250 to 9999 meters/sec
.0492 to .3936 in./ms
One and Two point calibration option,
or selection of basic material types.

Units: English & Metric

Display Views:

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

B-Scan Time based cross section 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

Indicates stability of reading.

Certification

Factory calibration traceable to national standards.

Warranty 2 year limited

Power Source:

Three 1.5 alkaline or 1.2V NiCad AA cells.
Typically operates for 150 hours alkaline) and 100 hours (NiCad).
Auto power off if idle for 5 minutes.
Battery Status meter.

Data Logger (Internal)

12,000 readings & waveforms (alpha numeric storage).
OBSTRUCT to indicate inaccessible locations.

Memory:

16 megabit non-volatile ram.

Transducer Types:

Single Element (1 to 20 MHz).
Locking quick disconnect
"00" LEMO connectors.
Standard 4 foot cable.
Custom transducers and cable lengths available.

Features

Setups:

16 factory and 48 custom user-defined setups.

Gates:

Single gate in contact mode
Single gate with holdoff in interface - echo, echo-echo and plastics mode.
Adjustable threshold.

Multiple Measurement Mode:

Selectable modes for a use with a variety of applications.

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.



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