

VX Velocity Gauge

The **VX** is a hand-held ultrasonic velocity gauge. When measuring materials such as casts, alloys, or plastics, the **VX** displays the speed of sound (velocity) through the material; thus giving an indication of its consistency.

The **VX** gauge has 2 measuring modes: The Point-to-Point mode, which is simply placing the probe to the material and the gauge will display the velocity at that point. The Scan mode allows the operator to place the probe on the material and then move the probe along the surface; when the probe is lifted from the material, it will then display the fastest velocity the gauge found on the area covered.

The **VX** is packaged in an all metal case, sealed with gaskets to protect them from harsh working environments. This gauge can go where you go, to do the work you do, saving you time and money, making fast accurate measurements.

quality gauges that are reliable, innovative and competitively priced—all backed by the longest warranty in the business—5 full years.

SPECIFICATIONS

Physical

Size:

Width (8.5in/216 mm)
Height (6.5 in/165 mm)
Depth (2.0 in/51 mm)

Weight:

2lbs. 10 ounces (1.2 Kg)
(with batteries).

Keyboard:

Membrane switch pad with
tactile keys.

Operating Temperature:

-4P to 122PF (-20P to 50PC)

Case:

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

Data Output:

RS232 port out Windows® inter-
face software.

Display:

Backlit LCD—3.5"W x 2.0"H

Ultrasonic Specifications

Measurement Modes:

Pulse-Echo (flaws, pits)
Echo-Echo (thru paint,
precision delay line)

Pulser:

Tone-burst (push-pull).
Selectable 1, 2, or 4 pulses.
Selectable frequencies (MHz):
0.5, 1, 2.25, 5, Hi Freq.

Receiver:

Low noise pre-amplifier.
Adjustable gain control.

Timing:

160 MHz 10 ppm TCXO
controlled digitizer.

Memory:

8 megabit non-volatile ram.



Power Source

Four 1.5V alkaline or
1.2V NiCad C cells
100–240 VAC input 12VDC
power supply.

Typically operates for 30 hours
on alkaline and 15 hours on
NiCad (charger not included.)

Battery icons indicate
remaining life.

Measuring

Range:

Measures from 0.010 to 480
inches (0.63 to 12 Meters) in
steel. Switch to select english or
metric units.

Resolution:

Standard Mode—
.001 inches (0.01 millimeters)

High Resolution mode—

.0001 inches (0.001 mm)

Velocity Range:

.0500 to .3937 in/ms
1270 to 10,000 meters/sec

Selectable pulse repetition rate
allows for high speed scanning
or low power operation.

Single and Two point calibration
capability.

Display

Display Views:

Rectified (flaw view)
RF (full waveform view)
Digital thickness readout

Multi-function 6 digit graphic
LCD, backlit for use in poor light
conditions.

Measurements displayed in
inches, inches/microsecond.

Millimeters and meters/second.

Bar graph indicates stability of
reading.

Certification

Factory calibration traceable to
national standards.

Data Logger (Internal)

1000 pages of memory (alpha
numeric storage)—1 main cell
cell reading, 1 waveform, 2
comment lines, and 16 sub
readings per page.

OBSTRUCT for indicating
inaccessible locations.

Transducer

Transducer Types:

Dual Element (1 to 10 MHz)
Single Element Contact
(500 KHz to 10 MHz)
Single Element Delay Line
(5 to 22 MHz)

Locking quick disconnect
"00" LEMO connectors.

Standard 4 foot cable.

Custom transducers and
lengths cables available for
special applications.

Features:

Setups: 25 manufacturer
presets that can be edited by
the user.

Gates: 2 fully functional gates
with adjustable thresholds.

Windows® PC interface
software: Bi-directional trans-
fers of grid data, waveforms,
and setups.

Full Feature Lockout:

Password locks or enables
some of the advanced features.
Locked: Use THOR as a digital
thickness gauge. Unlocked:
THOR is a fully functional
A-Scan scope.

Warranty

2 year limite

QUALITEST North America
Toll-Free: 1.877.84.TEST (8378)
Fax: 954.697.8211
Website: www.WorldofTest.com
Email: info@qualitest-inc.com