DAKOTA ULTRASONICS

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.

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

SOUND SOLUTIONS

VX VELOCITY GAUGE

DAKOTA ULTRASONICS rugged gauges have been designed and built to satisfy the roughest industry conditions. The variety of features offered in our gauges allow the user to select a quality tool that will meet or exceed theirand specific application needs. Our 5 year limited warranty indicates how we feel about the reliability and durability of the **VX Velocity Gauge**.

SPECIFICATIONS

Physical

Weight:
10 ounces (with batteries).

Size:
2.5 W x 4.5 H x 1.24 D inches
(63.5 W x 114.3 H x 31.5 D mm).

Operating Temperature:
-20 to 120F (-30 to 50C).

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

Keypad

Sealed membrane that is resistant to both water and petroleum products.

Six tactile-feedback keys.

Transducer

Dual-element (transmit and receive).

1 to 10 MHz frequency range.

Locking quick disconnect LEMO connectors.

4 foot cable.

Custom transducers available for special applications.

CE approved

Power Source

Two 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 80 hours on alkaline and 20 hours on NiCad.

Display flashes when battery is low. Unit turns off automatically when battery is too low to operate reliably.

Display

Multi-function 4.5 digit liquid crystal display with 0.500 inch numerals, backlit for use in poor light conditions.

Backlight is selectable on/off/auto (illuminates only when taking a measurement).

Measurements displayed in inches/microsecond, and meters/second.

Bar graph indicates stability of reading.

Certification

Factory calibration traceable to NIST & MIL-STD-45662A.

Warranty

5 year limited.

Measuring

Range:
Measures from 0.025 to 19.999 inches (0.63 to 500 millimeters). Range dependent on material and transducer type.

Units:
English & Metric

Resolution:
0.001 inches (0.01 millimeters)

Velocity Range:
0.0492 to .3937 in/µs.
(1250 to 14,000 m/sec)

Four readings per second for single point measurements and sixteen per second in scan mode.

Single point calibration to known thickness or velocity.

MADE IN THE USA

Distributed by:

DAKOTA ULTRASONICS
1500 Green Hills Road, #107
Scotts Valley, CA 95066
Ph: (831) 431-9722
Fax: (831) 431-9723
Website: www.dakotaultrasonics.com
Email: info@dakotaultrasonics.com