

## **PVX SPECIFICATIONS**

## **Physical**

#### Size:

Width (2.5in./63.5 mm.) Height (6.5 in./165 mm.) Depth (1.24 in./31.5 mm.)

#### Weight:

13.5 ounces (with batteries).

#### Keyboard:

Membrane switch pad with twelve tactile keys.

## Operating Temperature:

14° to 140°F (-10°C to 60°C)

#### Case:

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

#### **Data Output:**

Bi-directional RS232 serial port. Windows® PC interface software.

#### Display:

1/8in. VGA grayscale display (240 x 160 pixels). Viewable area 2.4in. x 1.8in. (62m. x 45.7mm). EL backlit (on/off/auto).

## **Ultrasonic Specifications**

#### **Measurement Modes:**

Pulse-Echo (Precision—General purpose).

Interface-Echo (Precision—Thick materials).

**Echo-Echo** (Precision—Thin materials & 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.

#### Warranty

2 year limited

# **(** approved

### **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 meter.

## Measuring

#### Range:

Interface-Echo Mode: Steel .050in.–1.0in. (1.27mm–25.4mm). Plastics from .005in. (.127mm).

Echo-Echo Mode: Steel .006in.-.500in. (1mm-12.7mm).

Pulse-Echo Contact: Steel .040in.–10.0in. (1mm–254mm). Plastics from .010" (.254mm).

Echo-Echo Contact: Steel thru-paint .100in–3.0in. (2.54mm–76.2mm).

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

#### **Velocity Range:**

.0492 to .5510 inches/µs 1250 to 9999 meters/sec

One and Two Point calibration option, or selection of basic material types.

#### Units:

English & Metric

## **Display**

#### **Display Views:**

#### A-Scan-

Rectified +/- (half wave 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—Bar graph indicates stability of reading.

## **Data Logger (Internal)**

12,000 readings and waveforms (alpha numeric storage).

OBSTRUCT to indicate inaccessible locations.

#### Memory:

16 megabit non-volatile ram.

#### **Transducer**

#### **Transducer Types:**

Single Element (1 to 20 MHz).

Locking quick disconnect "00" LEMO connector.

Standard 4 foot cable.

Custom transducers and cable lengths available.

#### Features:

#### Setups:

16 factory and 48 custom userdefined setups.

#### Gates:

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

Multiple Measurement Modes: Selectable modes for 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.

## Certification

Factory calibration traceable to national standards.

11/04 (04-106/2.5M)

## CHECK-LINE®-PRECISION QUALITY CONTROL INSTRUMENTS

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