DAKOTA ULTRASONICS

PR-8V_{v2.0}

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PR-8V MULTI-VISUAL SONIC TESTER

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B-SCAN

CAN BAR

The

SONIC TESTER

The physical size, weight, and display resolution are just a few of the benefits of the PR-8V

The time-based B-Scan feature of the PR-8V displays a cross section of the opposite surface, allowing engine builders the ability to see the contour of the back surface in cylinders while scanning.

Use the Multi-Mode (Echo-Echo mode) feature to measure chassis tubing with or without paint and coatings. Built-in automatic gain control.

Five position gain switch in 3 dB increments (40-52 dB), offering fine adjustment for noisy or hard to penetrate materials.

- The variety of calibration options is just one more example of PR-8V's versatility.
- Store up to 64 custom setups. Factory setups available for common applications.

The internal Data Logger of the PR-8V has been customized for both the engine builder and the chassis inspector. Selectable cylinder mapping or general alpha numeric file storage will satisfy your reporting needs.

▶ Built-in transducer types offer increased linearity between transducers.

The high speed scan feature provides a better representation during the scanning process, by making up to 200 measurements per second. Captures the live minimum and maximum thickness while scanning.

Use the visual and audible alarm to set Hi and Lo limits to signal the inspector when the measurements are out of tolerance.

The PR-8V includes our Windows® PC or OSX software for reporting purposes. Includes B-Scans, Cylinder Maps, and general measurements.

2 year limited warranty.

SOUND SOLUTIONS

PR-8V 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).

Display:

1/8in VGA grayscale display (240 x 160 pixels); viewable area 2.4 x 1.8in (62 x 5.7mm); EL backlit (on/off/auto/invert).

Ultrasonic Specifications

Measurement Modes: Pulse-Echo (flaws, pits, corrosion). Echo-Echo (thru-paint-chasis).

Pulser: 150 volt square wave pulser.

Receiver: Manual or AGC gain control with 50dB range, depending on mode selected.

Timing: Precision TCXO timing with single shot 100 MHz 8 bit ultra low power digitizer.

Display

Display Views:

Large Digits: Standard thickness view; Digit Height: 0.700 in (17.78 mm).

B-Scan: Time based cross section view. Display speed variable (10 to 200 readings per second).

Scan Bar: Speed 10 Hz. Viewable in B-Scan and Large Digit views.

Bar Graph: Indicates stability of measurement. Viewable in B-Scan and Large Digit views.

Power Source

Line Power: USB-C to PC or power outlet.

Batteries:

Three AA cells. Alkaline - 35 hrs, Nicad - 10 hrs and NI-MH - 35hrs.

Auto power off if idle 5 minutes.

Battery status icon.

Measuring

Range:

Pulse-Echo Mode (P-E) - (Pit & Flaw Detection) measures from 0.025 to 36 inches. (0.63 to 914.4 mm). Range dependent on material and transducer type.

Echo-Echo Mode (E-E) - (Thru Paint & Coatings) measures from 0.100 to 4.0 inches (2.54 to 101.6 mm). Range will vary depending on the coating thickness and material type.

Resolution: +/- .001 inches (0.01 mm).

Velocity Range: 0.0122 to 0.7300 inches/µs 309.88 to 18542 meters/sec

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

Units: English & Metric

Memory

Data Structure:

Grid (alpha numeric)

Engine Map (cylinder scans)

Screen Capture:

Bitmap graphic capture for quick documentation (.tif).

OBSTRUCT to indicate inaccessible locations.

Capacity:

4 Gb internal SD card.

Data Output: USB-C 1.1 PC & OSX connectivity.

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.

Features:

Setups:

64 custom user-definable setups; Factory setups can be edited.

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.

Scan Mode:

Takes 250 readings per second and displays the minimum & maximum readings found when the transducer is removed.

Certification

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

Warranty

2 year limited

Digits View

B-Scan View



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