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Dakota NDT
an Elcometer company



RX8-DL

Sonic Tester

HIGHLIGHTS:

- The time-based B-Scan feature of the RX8-DL 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 3dB increments (40-52dB), offering fine adjustment for noisy or hard to penetrate materials.
- The variety of calibration options is just one more example of RX8-DL's versatility.
- Store up to 64 custom setups. Factory setups available for common applications.
- The internal Data Logger of the RX8-DL 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.
- 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.

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DAKOTA RX8-DL SONIC TESTER

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 100MHz 8 bit ultra low power digitizer.

DISPLAY

Display Views:

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

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

Scan Bar: Speed 10Hz. 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 914.4mm). 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 101.6mm). Range will vary depending on the coating thickness and material type.

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

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:

4Gb internal memory.

Data Output:

USB-C 1.1 PC & OSX connectivity.

TRANSDUCER

Transducer Types:

Dual Element (1 to 10MHz).

Locking quick disconnect “00” LEMO connectors.

Standard 4 foot cable.

Custom transducers and cable lengths available.

CERTIFICATION

Factory calibration traceable to NIST & MILSTD- 45662A.

WARRANTY

2 year limited

REPLACEMENT

RX8-DL replaces PR-8V

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.

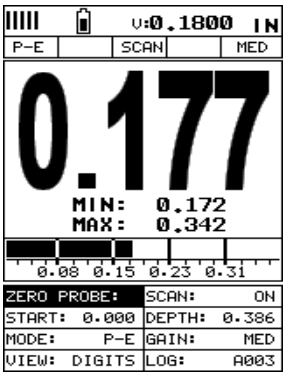
Alarm Mode:

Set Hi and Lo tolerances with audible beeper and visual LEDs.

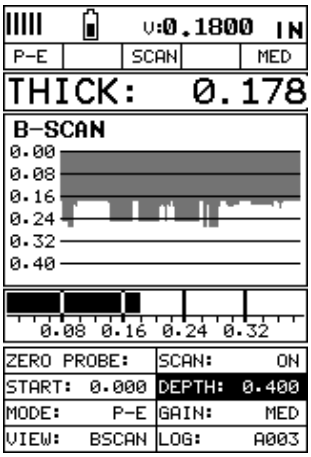
Scan Mode:

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

Digits View



B-Scan View



MADE IN THE USA

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