

# THE PR-9 SONIC TESTER

### A partial list of common racing probes:

Chassis Tubing, Roll Cages 3/16" 10MHz Flat Probe head 0.00" radius
Cast Iron Cylinder Heads 1/4" 5MHz with 1" or 9" Wand 0.60" radius
Aluminum Cylinder Heads 1/4" 10MHz with 1" or 9" Wand 0.60" radius
Cast Iron/Alum Cylinder Blocks 1/2" 5MHz 2.00" radius
Cast Aluminum Cylinder Blocks 1/2" 10MHz 2.00" radius \*

### Common automotive applications:

CylindersHead PortsRoll CagesChassis TubingBody PanelsWindshields

## SPECIFICATIONS

### **Physical**

#### Weight:

11 ounces (with batteries).

#### Size:

Width (2.5 in / 63.5 mm) Height (5.17 in / 131.3 mm) Depth (1.24 in / 31.5 mm)

#### **Operating Temperature:**

-22 to 167F (-30 to 75C).

#### Case:

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

#### Keypad

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

Nine 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.

### **Power Source**

Two 1.5V alkaline, 1.2V NiCad, or 1.5V Lithium AA cells.

Typically operates for 45 hours on alkaline and 23 hours on NiCad.

Low battery indicator on display. Auto shut-off after 5 minutes of inactivity.

### Display

Multi-function 7 segment 4.5 digit liquid crystal display with 0.500 in digit height. Two 0.125 in14 segment fields for labels and values, and one 7 segment field for labels and values. Additional icons to indicate features and modes.

Backlight is selectable on/off/auto, and selectable brightness (Lo, Med, Hi) options.

Bar graph indicates repeatability of measurement.

### Certification

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

#### Warranty

5 year limited.

### Measuring

#### Range:

Measures from 0.025 to 36.00 inches (0.63 to 914.4 millimeters). Range dependent on material and transducer type.

#### **Automotive Applications:**

0.050 to 1.500 inches in casted materials.

#### Units:

**English & Metric** 

#### **Resolution:**

0.001 inches (0.01 millimeters)

#### **Velocity Range:**

0.0120 to .7300 in/µs (305 to 18,542 m/sec)

PRF: 200Hz

**Display Update Rate:** 10Hz

### **High Speed Scan:**

Display the lowest measurement found during a scan. Scan speed at 100Hz.

One or Two point calibration option.



## MADE IN THE USA

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<sup>\*</sup> Only required for noisy materials