

DAKOTA ULTRASONICS



PR-8² Sonic Tester

The PR-8² is the first affordable **Sonic Tester**, utilizing state-of-the-art digital technology to produce fast and accurate readings. It requires no special training to operate.

Unlike calipers, the PR-8² will measure where there is access to only one side. This makes it valuable when measuring roll cage thickness, cylinder walls (before and after boring) and heads during porting.

The PR-8² measures in two modes. The first mode takes a measurement at the

point you place the probe. The second is the Scan mode, which is helpful when measuring cylinder walls and roll cages. Place the probe at the bottom of the cylinder and drag it to the top, the gauge will display the thinnest reading measured.

The PR-8² is a lightweight, rugged tool that is resistant to water and oil. Other features include a backlit LCD and a bar graph to indicate signal stability.

The 5 year warranty indicates how we feel about the quality of the PR-8².

The PR-8² can go where you go, to do the work you do, saving you time and money, making fast, accurate measurements.

TECHNOLOGY WITH A PURPOSE

Sonic Tester PR - 8

THE PR-8²: TECHNOLOGY WITH A PURPOSE

With the **PR-8²**, you can make accurate reliable measurements and scan a length of material for the thinnest point.

A partial list of the custom probes for racing applications:

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|-------------------------------|--------------------------------|--------------|
| • Chassis Tubing, Roll Cages* | 1/4" 5MHz Flat Probe head | |
| • Cast Iron Cylinder Heads* | 1/4" 5MHz with 1" or 9" Wand | 0.60" radius |
| • Cast Iron & Aluminum Heads | 1/4" 7.5MHz with 1" or 9" Wand | 0.60" radius |
| • Aluminum Cylinder Heads* | 1/4" 10MHz with 1" or 9" Wand | 0.60" radius |
| • Cylinder Blocks* | 1/2" 5MHz | 2.00" radius |

* best performance on stated material

The PR-8² comes complete, ready to use and is protected by Dakota Ultrasonics 5 year limited warranty — a statement of its quality.

Typical automotive applications are:

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|------------------|---------------|---------------|
| • Cylinders | • Head Ports | • Roll Cages |
| • Chassis Tubing | • Body Panels | • Windshields |

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 120°F (-30° to 50°C).

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.

Power Source

Two 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 200 hours with alkaline and 130 hours with 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.

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

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

Bar graph indicates stability of reading.

Warranty

5 year limited.

Measuring

Overall Range:

Measures from 0.025 to 19.999 inches (0.63 to 500.00 millimeters) switch to select English or metric units.

Resolution:

0.001 inch (0.01 millimeter).

Velocity Range:

0.0492 to .3937 in./μs.
(1250 to 10,000 meters/second).

Built-in:

Probe zero reference block.

Four readings per second for single point measurements or 16 per second in SCAN mode.

One and two point calibration capability.

Factory calibration traceable to national standards.

