The PR-8\textsuperscript{2} 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-8\textsuperscript{2} 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-8\textsuperscript{2} 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-8\textsuperscript{2} 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-8\textsuperscript{2}.

The PR-8\textsuperscript{2} can go where you go, to do the work you do, saving you time and money, making fast, accurate measurements.
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:**
- Chassis Tubing, Roll Cages* 3/16" 10MHz Flat Probe head 0.60" radius
- 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-8X² comes complete, ready to use and is protected by Dakota Ultrasonics 5 year limited warranty—a statement of its quality.

**Typical automotive applications are:**
- Cylinders
- Chassis Tubing
- Head Ports
- Body Panels
- Roll Cages
- Windshields

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**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°F to 120°F (-30°C to 50°C).

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

### 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.

### Measuring

- **Overall Range:**
  Measures from 0.025 to 19.999 inches (0.63 to 500.00 millimeters) switch to select English or metric units.

- **Automotive Applications:**
  0.050 to 1.500 inches in casted materials.

- **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.

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