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.

SOUND SOLUTIONS

THE PR-8² SONIC TESTER

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	
• 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:

- Cylinder
- Chassis Tubing
- Head Ports
- Body Panels
- Roll Cage
- 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 120F (-30 to 50C).

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 80 hours on alkaline and 20 hours on 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, backlit for use in poor light conditions.

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

Bar graph indicates stability of reading.

Certification

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

Warranty

5 year limited.

Measuring

Range:
Measures from 0.025 to 19.999 inches (0.63 to 500 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:
0.0492 to .5511 in/µs.
(1250 to 14,000 m/sec)

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

One or Two point calibration option.

CE approved

MADE IN THE USA

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