

# DAKOTA ULTRASONICS



## PR-8<sup>2</sup> 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.

# THE PR-8<sup>2</sup> SONIC TESTER

	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
- Head Ports
- Roll Cage
- 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 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 op-  
tion.



## MADE IN THE USA

Distributed by:



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