



# Propagation Resistivity Tool (PRT)

Scientific Drilling's PRT was designed with the customer's needs in mind. It is the industry's only probe-based LWD tool made to be field serviceable, highly portable and retrievable/reseatable (in memory mode only).

The SDI PRT is a dual spacing tool operating at 2 MHz. providing four depths of investigation. It provides four resistivity curves (two phase and two attenuation) with transmitter spacing at 23 inches and 33 inches.

## Tool Features

- Probe based for high portability. All electronics can be hand-carried in a standard case.
- Works in memory stand alone mode as well as real time operations with Mud Pulse and Electromagnetic MWD.
- Independent battery power for additional operational flexibility.
- Data acquisition as fast as one reading per second in memory mode.
- Operates in all mud types.
- Industry standard Gamma Ray sensor.
- Gamma Ray sensor is located at the bottom of the collar for early formation identification.
- Retrievable/reseatable operations (in memory mode).
- Large memory capacity.
- Sonde interchangeable with all collar sizes.

## Applications

- Formation correlation
- Payzone indicators
- Kickoff point determination
- Wellpath recovery
- Drillstring trip reduction
- Geosteering
- Picking casing and coring points
- Correlation with previous logs runs
- Pore pressure evaluation
- Time lapse identification of moveable fluids
- Integrated interpretation with wireline logs
- Wireline replacement
- Casing drilling

## TECHNICAL SPECIFICATIONS

<b>Measurement</b>	2 MHz Propagation Velocity & Attenuation
<b>Spacing</b>	23 in (58.42 cm) and 33 in (83.82 cm)
<b>Range</b>	0.2 to 200 ohm-meter
<b>Accuracy</b>	0.2 to 20 ohm $\pm 2\%$ Max 20 to 200 ohm $\pm 10\%$ Max
<b>Vertical Resolution</b>	12 in (30.48 cm) bed
<b>Sonde OD and Length</b>	1.75 in (4.45 cm) Diameter, 55 in (139.7 cm) Long
<b>Memory Capacity</b>	8 MB Non-volatile memory
<b>Maximum Temperature</b>	302°F (150°C)
<b>Collar Sizes</b>	4.75 - 8 in (12.1 - 20.32 cm)
<b>Collar Length</b>	14.5 ft (4.2 m) including power systems
<b>Available Correction Charts</b>	<b>Collar Sizes</b>
	4.75 in    6.5 in    6.75 in    8 in (12.07 cm) (16.51 cm) (17.15 cm) (20.32 cm)
	<b>Borehole Diameters</b>
	8 in    10 in    12 in    14 in    16 in (20.32 cm) (25.4 cm) (30.48 cm) (35.56 cm) (40.64 cm)
	<b>Mud Resistivity</b> 0.05, 0.1, 0.2, 0.5, 1, 2, invert
<b>Maximum Vibration</b>	14 G

*Specifications are subject to change without notification.*