

PRT (Propagation Resistivity Tool)

Scientific Drilling's PRT was designed with the Customer 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 2MHZ, providing 4 depths of investigation. It provides 4 resistivity curves(2 phase and 2 attenuation) with transmitter spacing at 23" and 33".

Tool Features

- * Probe based for high portability. All electronics can be hand-carried in most electronic cases.
- * Industry standard Gamma Ray sensor.
- * 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.
- * Fast data acquisition mode as fast as 1 reading per sec.
- * Operates in all mud types.
- * Gamma Ray sensor is located at the bottom of the collar for early information identification.
- * Retrievable/reseatable operations.
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	
Measurement:	2 MHZ Propagation Velocity & Attenuation
Spacing:	23" & 33" using RCVR Separation
Range:	0.2 to 200ohm-meter
Accuracy:	0.2 to 20 ohm +/- 2% Max
	20 to 200ohm +/- 10% Max
Vertical Resolution:	12"bed
Sonde OD & Length:	1 3/4" Diameter, 55" long
Memory Capacity:	8 MB Non-volatile memory
Max. Temperature:	302 deg. F (150C)
Max. Pressure:	12,000 psi
Collar sizes:	4.75" - 8.0"
Collar Length:	14.5' including power systems
Available Correction Charts:	Collar Sizes
	4 3/4" 6 1/2" 6 3/4" 8"
	Borehole Diameters
	8" 10" 12" 14" 16"
	Mud Resistivity
.05, .1, .2, .5, 1, 2, invert	
Max. Vibration:	14 g's

