

Platinum Resistance Thermometer (PRT)

The Platinum Resistance Thermometer (PRT) tool measures the borehole fluid temperature, which can be used for finding fluid entry, gas leaks and injection zones. It is also useful in finding cement tops.

Description

The Platinum Resistance Thermometer Tool is small and compact. The tool plays a critical role in PL interpretation and is an integral piece of equipment in any production logging string.

The PRT measures downhole temperature by measuring the resistance of a platinum resistance element. The probe is contained in a pressure tight Inconel® needle, protruding into an open slot through which borehole fluid can flow. The measurements from the low mass probe result in high resolution data with fast temperature response.

Features

- Leak detection.
- Location of production and injection zones.
- Cement top identification.
- Location of fluid movement behind pipe.
- Fast response.
- Simultaneous operation with other Sondex Ultrawire™ tools

Specification

Temperature rating	350°F (177°C)
Pressure rating	15000psi (103.4MPa)
Tool diameter	1 11/16in (43mm)
Tool length	12.5in (317.5mm)
Tool weight	5.2lbs (2.4kg)
Toolbus	Ultrawire™
Current consumption	20mA
Resolution	0.006°F (0.003°C)
Measurement range	50-350°F (10-177°C)
Response time	~0.5 seconds
Accuracy	±0.9°F (0.5°C)
Linearity	0.5°F (0.15°C)
Materials	Corrosion resistant throughout

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