Technical Specification Sheet

ProTherma™ PTS

The ProTherma™ PTS is a production logging tool that provides pressure, temperature, flow rate, gamma ray, and casing collar measurements on either Memory or Surface Read Out mode in ultra-high temperature environments.

Ratings & Dimensions

	1.69”	1.83”
Max temperature	4 hrs @ 482°F (250°C)	4 hrs @662°F (350°C) 6 hrs @ 572°F (300°C)
Max Tool pressure	15k psi at 482F (250C)	17.5k psi at 600F (316C)
Outer diameter	1.688 in (42.87 mm)	1.830 in (46.48 mm)
Length	**SRO:** 7.33 ft (2.23 m) **Memory:** 9.0 ft (2.74 m)	
Weight	**SRO:** 55.0 lbs (25.0 kgs) **Memory:** 60.0 lbs (27.2 kgs)	**SRO:** 60.0 lbs (27.2 kgs) **Memory:** 65.0 lbs (29.5 kgs)
Materials	NACE MR0175 / ISO 15156 compliant	

Hardware Characteristics

Acquisition mode	Memory or SRO (with SDS Warrior™ or ALT OPAL™)
Memory Size	8 MB
Sample Rate	**P,T,F:** 1 sps | **CCL**: 20 sps

Pressure Measurements

Sensor Type	Quartz
Resolution	0.0008% F.S.
Accuracy	0.02% F.S.
Pressure Range	0 – 5k psi or 0-10k psi
Transducer Max	10,000 psi (68.9 mPa)

Temperature Measurements

Sensor Type	RTD
Resolution	0.002% F.S.
Accuracy	0.15% F.S.
Response Time	1.5 sec / 10°C
RTD Max	662°F (350°C)

Flowmeter / Spinner

Sensor Type	Triple Reed Switch		
Outer diameter	**Continuous spinner**		
	1.688 in (42.8 mm)	2.125 in (53.9mm)	3.0 in (76.2 mm)
	Fullbore spinner		
	4.5 in (114.3 mm)	7.5 in (177.8 mm)	
Resolution	????		
Threshold Range	??? - 18,000 RPM		

Gamma Ray

Sensor Type	NaI Scintillation

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