

PROTHERMA™ GEOTHERMAL PTS



SKU: 18650-100 (1.69 SRO) and 18650-104 (1.69 Memory) or 18650-200 (1.83 SRO) and PTQ001 (1.83 Memory)

Categories: [Advanced Monitoring](#), [Geothermal & UHT Logging](#), [Kuster®](#), [ProTherma](#), [PTS - Gamma - CCL](#)

PRODUCT DESCRIPTION

The ProTherma™ Geothermal 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	6 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)	SRO: 60.0 lbs (27.2 kgs) Memory: 65.0 lbs (29.5 kgs)
Weight	SRO: 55.0 lbs (25.0 kgs) Memory: 60.0 lbs (27.2 kgs)	

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
Materials	NACE MR0175 / ISO 15156 compliant
Connections	Top: 5/8" API Pin (Memory Configuration) Top: 1 3/16"- 12 GO Box (SRO Configuration)

Pressure Measurements

Sensor Type	Quartz
Resolution	< 0.1 psi
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	1 RPM
Threshold Range	30 - 18,000 RPM

Gamma Ray

Sensor Type	Nal Scintillation
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Version Control: 2021.12.20

On-line specifications are for REFERENCE ONLY and subject to change without notice. DO NOT USE FOR FIELD OPERATIONS.