

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

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

Hardware Characteristics

|                  |  |
|------------------|--|
| Acquisition mode | Memory or SRO (with SDS Warrior™ or ALT OPAL™)     |
| Memory Size      | 8 MB   |
| Sample Rate      | <b>P,T,F:</b> 1 sps   <b>CCL:</b> 20 sps           |
| Materials        | NACE MR0175 / ISO 15156 compliant                  |
| Connections      | <b>Top:</b> 5/8" API Pin (Memory Configuration)    |
|                  | <b>Top:</b> 1 3/16"- 12 GO Box (SRO Configuration) |

## Pressure Measurements

|                       |                         |
|-----------------------|-------------------------|
| <b>Sensor Type</b>    | Quartz                  |
| <b>Resolution</b>     | < 0.1 psi               |
| <b>Accuracy</b>       | 0.02% F.S.              |
| <b>Pressure Range</b> | 0 – 5k psi or 0-10k psi |
| <b>Transducer Max</b> | 10,000 psi (68.9 mPa)   |

## Temperature Measurements

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

## Flowmeter / Spinner

|                        |  |
|------------------------|--|
| <b>Sensor Type</b>     | Triple Reed Switch   |
| <b>Outer diameter</b>  | <b>Continuous spinner</b><br>1.688 in (42.8 mm)    2.125 in (53.9mm) 3.0 in (76.2 mm)<br><b>Fullbore spinner</b><br>4.5 in (114.3 mm)    7.5 in (177.8 mm) |
| <b>Resolution</b>      | 1 RPM  |
| <b>Threshold Range</b> | 30 - 18,000 RPM  |

## Gamma Ray

|                    |                   |
|--------------------|-------------------|
| <b>Sensor Type</b> | Nal Scintillation |
|--------------------|-------------------|

Version Control: 2021.12.20

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