The **PPS71 PT Geothermal Tools** are designed for extreme, high temperature downhole conditions. The robust electronics combined with vacuum flask technology allow these products to perform at 350 °C (662 °F) continuously, for four hours. The tool measures pressure and temperature, and can be configured as either a memory tool or surface read out (SRO) tool.

The measurements are done with a highly sensitive silicon-sapphire (piezo) transducer and a resistance temperature detector (RTD). The RTD is exposed to the wellbore for faster response and higher accuracy.

By combining the downhole measurements with a depth recorder, such as PPS’s DepthWatcher (PPS36), customers have the capability to create synchronized profile logs.

In addition SmartLog, PPS’s proprietary companion software for this tool can be used to create logging files for reports and export LAS files. These profile logs can be opened in any commercial logging software.

- **Operating temperatures up to 350 °C (662 °F)**
- **Features a fast response RTD temperature sensor**
- **Operates in either memory or surface read out mode**
- **Surface read out mode using e-line is compatible with the Warrior or PPS SRO acquisition system**
- **Can be combined with PPS36 DepthWatcher if depth measurement is needed**
## Specifications

### PPS71 PT Geothermal Tools
Pressure & Temperature

- **Pressure Sensor**: Silicon-Sapphire
- **Pressure Ranges**—psi: 5K | 10K
- **Temperature Sensor**: RTD (Pt1000; 4-wire)
- **Temperature Rating—Standard Housing**: 177 °C (350 °F)
- **Temperature Rating—Flask Housing**: 300 °C (572 °F) OD 1.56” | 350 °C (662 °F) OD 1.75”
- **Downhole Time (OD 1.75”)**: 4 hours at 350 °C (662 °F)
- **Downhole Time (OD 1.56”)**: 4 hours at 300 °C (572 °F)
- **Memory Capacity**: 6,000,000 data sets
- **Sampling Rate**: 0.1 s – 1.8 hrs/per sample
- **SRO Data Transmission Distance**: Up to 7,000 meters via standard electrical cable
- **SRO Interface Compatibility**: Warrior 8 and up
- **Service**: H₂S Services
- **Overall Length Memory Tool—Inches**: 59.3 (1,506 mm)
- **Overall Length SRO Tool—Inches**: 104.5 (2,654 mm)
- **Housing Material**: Stainless Steel 17-4 | Inconel 718

### Choose a PPS71 Geothermal Tool

<table>
<thead>
<tr>
<th>Model</th>
<th>Memory Mode</th>
<th>SRO Mode</th>
<th>Temperature Max.</th>
<th>Pressure Max.</th>
<th>Flow Profile</th>
<th>Casing Collar Locator</th>
<th>Gamma Ray</th>
<th>Memory Capacity</th>
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<td>✅</td>
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<td>10kpsi</td>
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