PPS71 PTS-C
Geothermal Tools
Overview of PPS71 PTS-C Geothermal Tools
Pressure, Temperature, Flow & Casing Collar Locator

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

The measurements are done with a highly accurate silicon-sapphire (piezo) transducer, a fast response resistance temperature detector (RTD), the customer’s choice of either a continuous or fullbore spinner flowmeter and a highly sensitive CCL. The CCL has a magnet and central coil arrangement which amplifies current providing a readable voltage spike or “collar kick” as data, giving end users an important control for depth correlation.

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.
Specifications

PPS71 PTS-C Geothermal Tools
Pressure, Temperature, Flow & Casing Collar Locator

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"

Flow Sensor Type
Reed switch/magnetic

Flow Rate Range
5 – 7,000 RPM

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
2,000,000 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 / CO2 Services

Overall Length Memory Tool–inches
66.7 (1,694 mm) 1.75" OD tool with 2.125" OD spinner
66.3 (1,684 mm) 1.75" OD tool with 1.69" OD spinner
66 (1,676 mm) 1.56" OD tool with 1.44" OD spinner

Overall Length SRO Tool–inches
111.9 (2,842 mm) with 2.125" OD spinner
111.5 (2,832 mm) with 1.69" OD spinner

Housing Material
Inconel 718

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### Choose a PPS71 Geothermal Tool

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<th>SRO Mode</th>
<th>Temperature Max.</th>
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