PPS71 PT Geothermal Tools - Memory / SRO

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 well fluids for faster response and higher accuracy.



Pressure Measurement

Sensor Type	Silicon-Sapphire
Pressure Range	5K psi 10K psi
Accuracy	± 0.03% FS
Resolution	0.0003% FS

Temperature Measurement

Sensor Type	RTD (Pt1000; 4-wire)
Temperature Range	300 °C (572 °F) 350 °C (662 °F)
Accuracy	± 0.5 °C
Resolution	0.01 °C

Environmental

Temperature Rating–Standard	Housing 177 °C (350 °F
Temperature Rating–Flask Hou	sing 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) 6 hours at 300 °C (572 °F
	┃ 8 hours at 250 °C (482 °F) 10 hours at 200 °C (392 °F
Downhole Time (OD 1.56")	4 hours at 300 °C (572 °F
	5.5 hours at 250 °C (482 °F) 7.5 hours at 200 °C (392 °F

Features:

- Operating temperatures up to 350 °C (662 °F)
- 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





Unit 105-1437 47 Ave. NE Calgary AB T2E 6N7 | Tel: 1-403-282-7669 | Fax: 1-403-282-0509 Toll Free in Canada & US: 1-888-PP-GAUGE (774-2843) | Email: sales@pioneerps.com

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Memory Tool Specifications

Sampling Rate	0.1 s – 1.8 hrs/per sample
Data Sets	Time / Pressure / Temperature
Memory Capacity	6,000,000 data Sets
Communication Interface	USB
Communication Rate	115,200 bits/s
Operation Voltage	2.7 – 3.9 VDC
Battery	180 °C (356 °F) C-size Li-battery (5 A hr/3.6 V)
Connector	Lemo 6 pin with locker

Surface SRO Interface

Transmitter Sampling Rate	0.1 s – 1.8 hrs/per sample
Data Transmission Rate	9,600 bits per second via standard electrical cable
Data Transmission Distance	Up to 7,000 meters via standard electrical cable
Compatibility	Warrior 8 and up
Communication Port	USB 2.0 to PC
Power Input	100 - 240 VAC
Surface Unit Power Output	+60 VDC
Working Temperature	-40 °C (-40 °F) to 85 °C (185 °F)
Humidity	90%
Condensation	No
Material	Aluminum
Connectors 1 AC I	Power, 1 DC Power, 1 USB Port and 1 Gauge Interface
Dimensions-inches	7.75 (196 mm) x 4 (101 mm) x 3.25 (82 mm)
Interface	USB 2.0

Mechanical and Materials

Service	Sour Services
Outside Diameter-inches	1.56 (39 mm) Memory Only 1.75 (44 mm)
Overall Length Memory Tool-inches	59.3 (1,506 mm) with bullnose
Overall Length SRO Tool-inches	104.5 (2,654 mm) with bullnose
Housing Material	Austenitic stainless steel





SRO Surface Box

PPS36 DepthWatcher



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SRO Transmitter

SRO Adapter