Technical Specification Sheet

Quantum™ Geothermal PTS Gauge

The Quantum™ Geothermal PTS gauge is a subsurface high temperature memory tool designed to continuously measure and record downhole temperature, pressure and flow. The PTS gauge has excellent thermal protection from temperatures up to 350°C. Directional flow data is provided by the lower spinner section. A fast response temperature sensor (RTD) provides a high accuracy temperature profile of the well. Communication is via USB interface and the tool is powered using AA cell batteries.

Ratings & Dimensions

Max temperature	4 hours @ 662°F (350°C)
Max Tool pressure	8,500 psi
Pressure Range	0–5k psi / 0-10k psi
Outer diameter	2.125 in (53.9 mm)
Length	66.0 in (1.67 m)
Weight	30.0 lbs (13.6 kgs)
Materials	17/4 ph or 718 Inconel NACE MRO 175

Hardware Characteristics

Transducer type	**Pressure**: Piezo resistive	**Temperature**: RTD
Battery type	AA Lithium / Alkaline	

Pressure Measurements

Pressure Range	0–5k psi / 0-10k psi
Sampling Rate	1 sps
Resolution	0.0003% F.S.
Accuracy	0.024% F.S. or 0.05% F.S.

Temperature Measurements

Max temperature	4 hours @ 662°F (350°C)
Resolution	0.0018°F (0.001°C)
Accuracy	± 0.449°F (± 0.25°C)
Response Time	1.5 sec / 10°C

Flowmeter / Spinner

Outer diameter	2-1/8” & 1-11/16”
Sensors	2 or 3 Reed switch/magnetic
Data	Flow with directional sensing
Flow rate	30 RPM - 18,000 RPM

Electrical Specification

Consumption	3.6V
Max data	3,500,000 sets
Interface	USB URod

Application

Mode	Memory / SRO
Logging Time	4 hrs @ 350°C, 6 hrs @ 300°C

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