Technical Specification Sheet

Quantum™ Geothermal PT Gauge

The Quantum™ Geothermal PT gauge is a subsurface high temperature memory tool designed to continuously measure and record downhole pressure and temperature. The PT gauge has excellent thermal protection from temperatures up to 350°C. 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 / 0-8.5k psi
Outer diameter	1.75 in (44.45 mm)
Length	59.0 in (1.49 m)
Weight	28.0 lbs (12.7 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 / 0-8.5k 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

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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