ONLINE TECHNICAL SPECIFICATION SHEET



QUANTUM™ GEOTHERMAL PTS GAUGE





SKU: 18600-460 (Memory) and 18600-550 (SRO)

Categories: Advanced Monitoring, Gauges, Geothermal & UHT Logging,

Kuster®, Quantum

PRODUCT DESCRIPTION

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

 Outer diameter
 1.75 in (44.45 mm)

 Length
 66.0 in (1.67 m)

 Weight
 30.0 lbs (13.6 kgs)

AA Lithium / Alkaline Carrier

Hardware Characteristics

Battery type

Transducer type Pressure: Piezo resistive Temperature: RTD

Materials 17/4 ph or 718 Inconel NACE MRO 175

Top: $^{5}/_{8}$ " API Pin (Memory Configuration)

Top: 1 ³/₁₆"- 12 GO Box (SRO Configuration)

Pressure Measurements

Pressure Range 0–5k psi / 0-10k psi

Sampling Rate 1 sps

Resolution 0.0003% F.S.

ONLINE TECHNICAL SPECIFICATION SHEET



Accuracy

0.024% F.S. or 0.05% F.S.

Temperature Measurements

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

Flowmeter / Spinner

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

Electrical Specification

Consumption
Max data
Interface

3.6V 8,000,000 sets USB URod

Application

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

Version Control: 2021.12.21

On-line specifications are for REFERENCE ONLY and subject to change without notice. DO NOT USE FOR FIELD OPERATIONS.