Quantum[™] Geothermal PTS Gauge

Provides production logging measurements in either surface-read-out or memory mode, in ultra-high temperature environments

Applications

- · Geothermal and steam injection well surveys
- Monitor well performance
- Reservoir management

Features and Benefits

- Operating temperatures up to 662°F (350°C) makes it suitable for geothermal and high temperature wells
- Provides comprehensive data by measuring pressure, temperature, flow rate, and casing collars, essential for detailed well analysis
- Capable of operating in both memory and surface readout mode, offering operational flexibility

Tool Description

The Weatherford 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.

Specifications

Ratings and dimensions

Outer diameter	1.75 in. (44.45 mm)
Length	66.0 in. (1.67 m)
Weight	30.0 lb (13.6 kg)
Maximum temperature	4 hours @ 662°F (350°C)
Pressure range	8,500 psi (58.6 MPa)



Quantum[™] Geothermal PTS Gauge

Specifications, continued

Hardware characteristics

Transducer type	Pressure: Piezo resistive	Temperature: RTD
Battery type	AA Lithium / A	Ikaline Carrier
Materials	17/4 ph or 718 Inc	onel NACE MRO 175
Connections		y Configuration) (460 Model) RO Configuration) (640 Model)

Pressure measurements

Pressure range	0-5,000 psi / 0-10,000 psi (0 to 34.4 MPa / 0 to 68.9 MPa)
Sampling rate	1 sps
Resolution	0.0003% F.S.
Accuracy	0.024% F.S. or 0.05% F.S.

Temperature measurements

Maximum temperature	4 hours at 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 and 1-11/16 in.
Sensors	3 Reed switch/magnetic
Data	Flow with directional sensing
Flow rate	30 RPM - 18,000 rpm

Electrical specifications

Consumption	3.6V
Maximum data	8,000,000 sets
Interface	USB URod

Application

Acquisition Mode	Memory / SRO
Logging time	4 hr at 662°F (350°C), 6 hr at 572°F (300°C)
Other Options	PTS-CCL-SRO – PN: 18600-470 PTS-CCL Memory – PN: 18600-450



weatherford.com

© 2024 Weatherford. All rights reserved. 14019.00

Weatherford products and services are subject to the Company's standard terms and conditions, available on request or at weatherford com. For more information contact an authorized Weatherford representative. Unless noted otherwise, trademarks and service marks herein are the properly of Weatherford and may be registered in. the United States and/or other countries. Weatherford products named herein may be protected by one or more U.S. and/or foreign patents. Specifications are subject to change without notice. Weatherford sells its products and services in accordance with the terms and conditions set forth in. the applicable contract between Weatherford and the client.