

# Quantum™ Geothermal PT Gauge

Enables precision pressure temperature surveys in ultra-high temperature environments

## Applications

- Geothermal
- Gradient surveys

## Features and Benefits

- Operating temperatures up to 662°F (350°C) makes it suitable for geothermal and high temperature wells
- Capable of operating in both memory and surface readout mode, offering operational flexibility

## Tool Description

The Weatherford 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 662°F (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.

## Specifications

### Ratings and dimensions

Outer diameter	1.75 in. (44.45 mm)
Length	59.0 in. (1.49 m)
Weight	28.0 lb (12.7 kg)
Maximum temperature	4 hours at 662°F (350°C)
Pressure range	8,500 psi (58.6 MPa)



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## Specifications, continued

### Hardware characteristics

Transducer type	<b>Pressure:</b> Piezo resistive	<b>Temperature:</b> RTD
Battery type	AA Lithium / Alkaline Carrier	
Materials	Inconel 825/Hastelloy (NACE MRO 175)	
Connections	<b>Top:</b> 5/8 in. API Pin (Memory Configuration) <b>Top:</b> 1 3/16 in.- 12 GO Box (SRO Configuration) <b>Bottom:</b> 5/8 in. API Box	

### Pressure measurements

Pressure range	0 to 5,000 psi / 0 to 8,500 psi (0 to 34.4 MPa / 0 to 58.6 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

### 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)

