Pressure Temperature Gauge (PTG)

PTG-GEO-120-PTDH-01-A

PTG is a 3 in 1 system comprised of a downhole element measuring pressure & temperature, a communication link and a top interface providing the measurement data. The communication system depends on the well architecture: it can be a wireless system for production casing or a regular wireline for completion operations or chemical injection for geothermal wells.

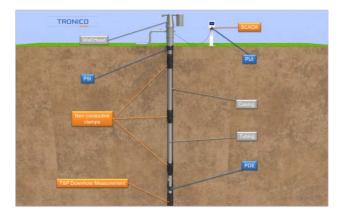


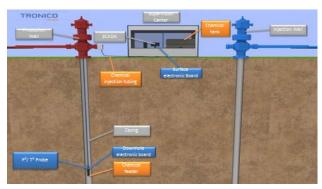
FEATURES

- Temperature measurements up to 125°C (175°C may be requested)
- Pressure measurement scalable up to 20 KPSI
- Usable with any Inconel compatible fluid
- Usable with carbon steel, CR13 or super duplex casings
- Long life span for downhole elements (depending on temperature profiles)
- Seamless installation on regular casings or tubings
- TCPIP link to interface with the user's system

APPLICATIONS

- Downhole survey (e.g. production cycle with PCP pump)
- Cementing survey (e.g. completion cycle for wireline)
- Geothermal monitoring
- Cavity surveying





Completion

Suitable with production casing

- Using tubing/casing production
- Wireless communication between tubing/casing
- PT sensors

Geothermal

Suitable with geothermal casing

- Wireless communication using chemical injection tubing
- Best Cost for PT sensors



SPECIFICATIONS

Measurement from 0 to 5000 psi ; Survival up to to 10.000 psi		
Absolute accuracy:		
 +/- 5 psi between + 60 °C to + 110 °C 		
 +/- 15 psi outside ; 		
Resolution: 0.5 psi		

TEMPERATURE MEASUREMENTS

Temperature measurement Accuracy Resolution	From 20 °C to +125 °C up to 175 °C on demand Absolute accuracy: +/-0.5 °C Resolution: 0.05 °C
resolution	Resolution: 0.05 C
DATA LOGGING	
	Most recent 1000 valid measurements stored. Measurement individually time-stamped
DOWNHOLE ENVIRONMENT	Casing from 9 ^{5/8} to 4 ¹ / ₂
	Geothermal tubing
	Downhole equipment diameter: OD 3,5"
	Electronic board dimensions: 60 x 60 x 20 mm
USER INTERFACE	
	Communication via PCP/IP 100 BaseT
	Embedded website for easy field operation
	Practical throughput: 1 measurement per minute
	Dimension: 193 x 113 x 58mm
LOGGING ENVIRONMENT	
	Withstands pressures up to 10 000 psi without degradation or loss of functionality
	Shock 20 g, 6 ms on each axis and in each direction
	Sinusoidal linear vibration :
	 50 g peak between 10 and 5000 Hz
	In 10 minutes per axis
	Depending on each axis
LIFE SPAN	
	10 years at 110 °C

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