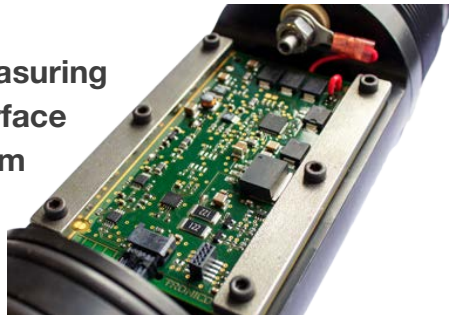
Pressure Temperature Gauge (PTG)

PTG-GEO-120-PTDH-01-A



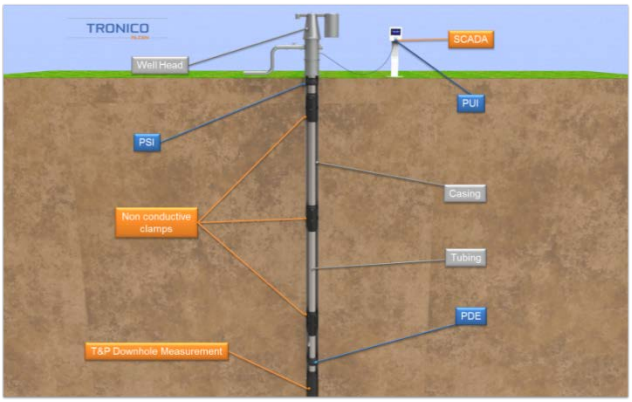
PTG is a 3 in 1 system comprised of a downhole element measuring pressure & temperature, a communication link and a top interface providing the measurement data. The communication system depends on the well architecture: it can be a wireless system for production casing or a regular wireline for completion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

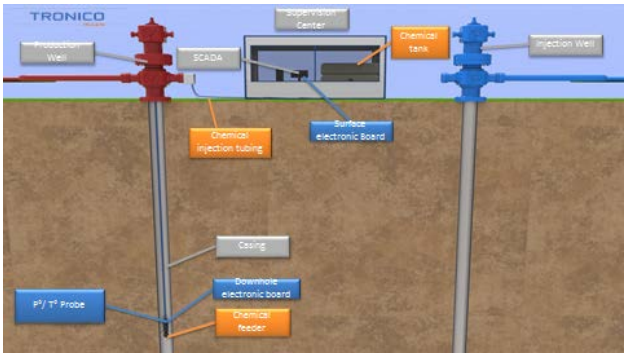
- Downhole survey (e.g. production cycle with PCP pump)
- Cementing survey (e.g. completion cycle for wireline)
- Geothermal monitoring
- Cavity surveying



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

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SPECIFICATIONS

PRESSURE MEASUREMENTS

	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		From 20 °C to +125 °C up to 175 °C on demand
Accuracy Resolution		Absolute accuracy: +/-0.5 °C 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 ½
	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

DISCLAIMER