

GEOQ 150

Stainless Steel 316L / Inconel 718



This precision downhole gauge utilizes a specialized Quartzdyne™ transducer.



Precision Downhole Observation

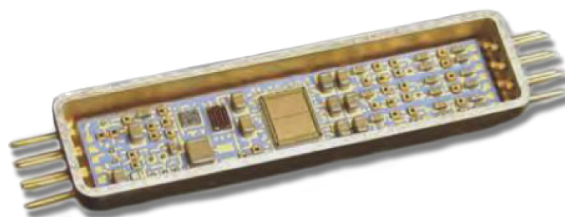
The GEOQ 150 Quartz Gauge is an advanced digital tool that is designed to provide high quality downhole pressure and temperature data. Our Quartzdyne™ downhole gauges provide the absolute best resolution and accuracy for pressure & temperature. At GEO PSI we only use Quartzdyne™ pressure transducers equipped with hybrid sensor circuitry which dramatically increases circuit life.

Key Features

- » Up to 8 gauges can be connected together in-line on a single downhole cable
- » High quality Quartzdyne™ transducer; the premier solution for precision pressure equipment
- » Our patented Easy-Connect™ Cablehead System allows for metal-to-metal connection of the gauge to the downhole instrumentation cable.
- » The dual sealing Pressure Testable design ensures that rig floor workmanship is correct before tool is deployed downhole
- » Durable Stainless Steel 316L or Inconel 718 construction
- » Fully welded construction ensures maximum protection against gas and / or fluid invasion
- » Advanced downhole telemetry ensures that each gauge has unique identity and data signature
- » IEC 61326 Certification
- » ISO certified manufacturing process

Hybrid Circuitry

Our Quartz tools feature full hybrid circuitry. Both the Quartzdyne™ and GEO PSI supplied downhole gauge controller electronic boards are a hybrid package design which is critical for long-term, high-temperature performance. This is one of the many technical advantages that makes GEO PSI an industry leader in Quartz gauge reliability.



Example of Hybrid Circuit

Applications

- The Ideal Solution When Resolution & Pressure Accuracy Matters Most
- Interference testing
- Reservoir Evaluation
- Multi-Gauge Observation Wells

GEOQ 150

Stainless Steel 316L / Inconel 718



This precision downhole gauge utilizes a specialized Quartzdyne™ transducer.

Specifications

Measurement	Pressure & Temperature
Sensor Type	Quartzdyne™
Output	PSK Telemetry
Input Voltage Range	12-24 VDC
Current	< 20mA
Available Pressure Ranges	5,000 10,000 16,000 20,000 25,000 30,000 psiA
Pressure Accuracy	± 0.015% Full Scale
Pressure Resolution	< 0.006 psi/Second
Pressure Repeatability	> 0.01% Full Scale
Pressure Drift	0.01% Full Scale/Year
Temperature Rating	150°C
Temperature Accuracy	± 0.1°C
Temperature Resolution	0.005°C/Second
Temperature Repeatability	± 0.01°C
Temperature Drift	< 0.1°C per Year
Long-Term Vibration Resiliency	10g at 10-2000Hz
Construction Material	Stainless Steel 316L or Inconel 718
Overall Length	16.94" / 43.03cm
Outside Diameter	0.875" / 22.23mm
Sample Intervals	Every 0.10 Seconds or Slower
Process Connection	1/4" Autoclave HF4
Surface Communications	Modbus RS485 and 4-20 mA Output
Meets Or Exceeds The Following Standards	IEC 61326 Certified
Patented Easy-Connect™ Cablehead	Yes
Leak Proof Design	Yes
Pressure Testable Design	Yes
Field Programmable	Yes
ISO Certified Manufacturing	Yes
Smart Technologies	Live transmitting of: Device Configuration, Device health, Downhole Head Voltage, Current, Calibration Files, and Downhole Serial Number Identity
Multi-Gauge Compatible	Up to 8 Gauges (In Any Combination Of Piezoresistive Or Quartz) On A Single Downhole Tubing Encapsulated Cable (TEC)

The absolute best resolution for pressure & temperature

Our Quartzdyne™ downhole gauges provide the absolute best resolution and accuracy for pressure & temperature. At GEO PSI we only use Quartzdyne™ pressure transducers equipped with hybrid sensor circuitry which dramatically increases circuit life.

Compatible TEC

- Single Conductor

