

GEOQ 150 Dual

Stainless Steel 316L / Inconel 718



This precision dual gauge utilizes a specialized Quartzdyne™ transducer.



Precision Multi-Zone Downhole Observation

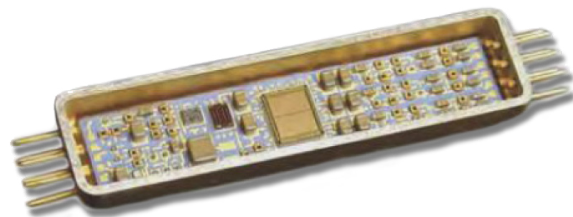
The GEOQ 150 Dual Quartz Gauge is an advanced digital dual gauge that is designed to provide two points of high quality downhole pressure and temperature data. Due to its integrated smart technologies, up to 10 gauges can run reliably off of a single downhole cable. Our Quartzdyne™ downhole gauges provide the absolute best resolution and accuracy for pressure & temperature.

Key Features

- » Up to 10 gauges can be connected together in-line on a single downhole cable
- » High quality Quartzdyne™ transducers; the premier solution for precision pressure equipment
- » Our patented Easy Connect Cable Systems 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

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Specifications

Measurement	Dual 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 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	24" / 60.96cm
Outside Diameter	1.00" / 25.4mm
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 10 Gauges (In Any Combination Of Peizoresistive 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

