

PRESSURE AND TEMPERATURE DOWNHOLE PERMANENT GAUGE QPDHG

Metrolog
A SERCEL BRAND

Tredwell

The QRM6 is a Standard Quartz Crystal Pressure and Temperature Downhole Memory Gauge. It uses ASIC driven Multichip Module (MCM) that can operate up to 220°C. The MCM is a hybrid-type electronic board and is mounted on shock absorbers for better performance and reliability.

Application

- Downhole reservoir monitoring with data on surface in real time.
- Extreme reliability allows for life of the well production monitoring.
- Quartz sensor allows PTA, productivity and decline analysis.

Features and Benefit

Enhanced Electronic Performances

- Enhanced shear mode Quartz metrological specifications.
- Qualified 20 years 150°C, 10 years 177°C, 5 years 200°C per AWES
- ASIC-driven Multi-Chip Module (Hybrid-type electronic board).

Innovative Breakthrough/ Benefits

- Easy to connect to TEC cable and gauge carrier.
- Dual cable head, full metal-to-metal, pressure testable on site.
- Dual-pressure seal on the gauge footer with metal-to-metal seal, pressure testable on site.
- Up to 30,000 psi and 200°C, H2S resistant per NACE MR0175.
- Single gauge, Dual gauge, Multidrop, up to 8 gauges on a single monoconductor cable.

Technical Specification

Pressure & Temperature

Gauge Name	QRM6
Pressure Range	Atm. to 5 kpsi up to 20 kpsi (Atm. to 350 to 1400 bar)
Pressure Accuracy	± 0.015% FS for Prange ≤ 10kpsi (700 bar) ± 0.02% FS for 10k spi ≤ Prange ≤ 20kpsi (1400 bar)
Pressure Resolution	< 1.10 ⁻³ psi (<6.10 ⁻⁵ bar)
Drift	<0.02 % full scale per year
Temperature Operating Range	0 °C to 302 °F (-20°C to 150°C)
Temperature Accuracy	± 0.3 °F (± 0.15 °C)
Temperature Resolution	<0.01 °F (<0.005 °C)



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