

PRESSURE AND TEMPERATURE DOWNHOLE MEMORY GAUGE CGM6

Metrolog
A SERCEL BRAND

Tredwell

The CGM6 is an Advanced Quartz Crystal Pressure and Temperature Downhole Memory Gauge. It uses ASIC driven multichip module that can operate up to 220°C. The reliability and robustness of CGM6 are one of the most important contributor to Metrolog's memory tools reputation.

Application

- Downhole reservoir testing (DST, interference testing and long-term jobs)
- Exploration or appraisal testing (HPHT, hostile and extreme temperature wells test)
- Pressure surveys in production wells (static/ dynamic gradient and build-up test)
- Long term monitoring test

Features and Benefits

- Enhanced electronics performances
 - Enhanced metrology specifications (resolution)
 - More autonomy, more memory capacity
 - ASIC-driven Multi-Chip Module (Hybrid-type electronic board)
- Innovative breakthrough and benefits
 - User-friendly and safely handling system
 - Compact external communication port*
 - IP68 & shockproof electronic compartment
 - Ring locked battery connection
 - Environmentally responsible smart batteries

*CGM6-X Series available without external com port

Technical Specification

Pressure & Temperature

Gauge Name	CGM6	CGM6-HT	CGM6-XHT	CGM6-UHT
Pressure Range	Atm. to 5 kpsi up to 30 kpsi (Atm. to 350 to 2000 bar)			
Pressure Accuracy	± 0.015% FS for Prange ≤ 10kpsi (700 bar) ± 0.02% FS for 10k spi ≤ Prange ≤ 25kpsi (1725 bar) ± 0.025% FS for Prange ≥ 30kpsi (2000 bar)			
Pressure Resolution	< 1.10 ⁻³ psi (<6.10 ⁻⁵ bar)			
Drift	<0.02 % full scale per year			
Temperature Operating Range	0 °F – 302 °F (-20 °C – 150 °C)	0 °F – 350 °F (-20 °C – 177 °C)	0 °F – 392 °F (-20 °C – 200 °C)	0 °F – 410 °F (-20 °C – 210 °C)
Temperature Accuracy	± 0.3 °F (± 0.15°C)			
Temperature Resolution	<0.01°F (<0.005°C)			



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Battery Type

Gauge Name	CGM6	CGM6-HT	CGM6-XHT	CGM6-UHT
Temperature < 150 °C	P15-G6 ; L2P15-G6	P15-G6 ; L2P15-G6	P15-G6 ; L2P15-G6	P15-G6 ; L2P15-G6
150°C < Temperature < 200°C	P15-G6 ; L2P15-G6	P20-G6 ; 2P20-G6	P20-G6 ; 2P20-G6	P20-G6 ; 2P20-G6 ; 2P22-G6

Mechanics

OD	1 1/4 in (31.75 mm)
Material	17-4PH suitable for sour services ≤ 20 kpsi MP35N ≥ 20 kpsi Inconel 718 on demand
Length	24" up to 31" (61 to 79 cm)
Weight	5.4 to 6.6 lbs (2.5 to 3 kg)
Threads	15/16" 10 UNC (pin up x box down)
Bottom Nose	1/4" NPT (box)

Computer & Software (Powered by Metrowin)

Programming Modes	Conventional, Advanced
Parameters	1/100s-18h Scanning Rate, Time delay, Pressure start (Trigger, Threshold)
Windows	Compatible from Windows 7 to Windows 10
Connector	USB
Memory Capacity	8.4M data points of pressure and/or temperature

Tredwell

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