

CGM5

Quartz Crystal Downhole Pressure and Temperature Memory Gauge



Smart battery pack

Electronic
mounted on
Shock absorbers

Rugged Quartz
Sensor



View of the external port of
communication

// ENHANCED RELIABILITY

- Low Maintenance gauge operated by anyone in less than 10 mins.
- Laterally locked battery avoids disconnection in operation.
- Metal-to-metal seal for better protection of the electronic board.

// METROLOG BREAKTHROUGH

- External communication port reduces maintenance cost and time.
- Smart battery system displays the remaining power of your cells.
- High-temperature electronic board with 4 times redundant memories.

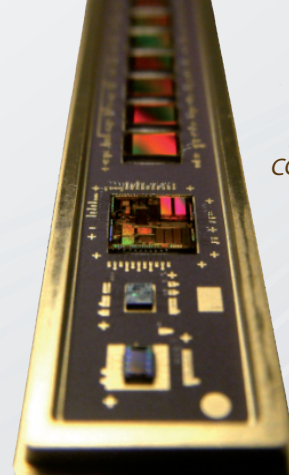
// APPLICATIONS

- For very accurate reservoir monitoring, DST, static/dynamic gradient and build-up.
- Also for pulse/interference tests and long term jobs.
- For high sensitivity, high stability, high resolution in hostile conditions and very extreme temperatures.

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CGM5

1.25" Quartz Crystal Downhole Pressure and Temperature Memory Gauge



Hybrid board used in
CGM5-XHT & CGM5-UHT

METROLOGY

Gauge Name	CGM5	CGM5-HT	CGM5-XHT	CGM5-UHT
Pressure				
Range	Amb. to 5kpsi up to 30kpsi (Amb. to 350 to 2000 bar)	From ambient pressure to 15kpsi up to 30kpsi (Ambiant to 1000 up to 2000 bar)		
Accuracy	Accuracy = ± 0.015% FS for Prange ≤ 10kpsi (700bar) Accuracy = ± 0.02% FS for 10k spi ≤ Prange ≤ 25kpsi (700bar) Accuracy = ± 0.025% FS for Prange ≥ 30kpsi (700bar)			
Resolution	<0.01 psi (<0.001 bar)			
Drift	<0.02% full scale per year			
Temperature				
Operating Range*	0 to 302°F (-20 to 150°C)	0 to 350°F (-20 to 177°C)	0 to 392°F (-20 to 200°C)	0 to 410°F (-20 to 210°C)
Accuracy	± 0.3°F (± 0.15°C)			
Resolution	<0.01°F (<0.005°C)			
Battery type				
Temperature < 150°C 150°C < Temperature < 200°C	P15, LP15, 2P15, L2P15	P15, LP15, 2P15, L2P15 P20, 2P20	P15, LP15, 2P15, L2P15 P20, 2P20	P15, LP15, 2P15, L2P15 P20, 2P20, 2P21

*Calibrated range starts at ambient temperature (20°C)
Calibration down to -20°C available on demand

Mechanics

Material	Inconel suitable for sour services (H2S, CO2, Acid) 17-4PH or MP35N on demand
OD	1" $\frac{1}{4}$ (31,75 mm)
Length	21" up to 30" (53 to 77 cm)
Weight	4 to 5 lbs (2 to 2.5 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 2000 to Windows 10
Connector	RS232/ USB
Memory capacity	4 200 000 data points of pressure and/or temp.

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Information subject to change without notice. TDSO_064_AA

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