

ALTOS

TECHNOLOGIES

DOWNHOLE INNOVATION

Memory Pressure Temperature Gauges

Altos Technologies manufactures many types of pressure - temperature gauges for downhole and surface applications.

These loggers are offered to cover a full range of measurement requirements in the operational life of an oil and gas well:

- Standard 0.75" EZGauge loggers for most applications and low cost.
- Metal-Metal sealed gauges, developed to perform long-term measurements or for highly corrosive environments where elastomeric seals can be a problem.
- Quartz transducer gauges for applications where long-term stability is the mostly important or where the measurement requires maximum achievable precision and accuracy.
- Dummy Valve type loggers that can be placed in Gas-Lift mandrels.
- Surface recorder for measurement or monitoring of wellhead operations with wireless real-time readings. Thermal control can be added for critical applications such as Falloff or DFIT in very low permeability wells.
- Fast response temperature logger for dynamic gradients, static gradients or where fast temperature transients must be recorded.
- Fast sampling rate gauges, used to measure fast events.





Memory Gauge Specification Table

	Standard Memory Gauges	Metal to Metal Seals	Gas-Lift Mandrel Gauges	Surface Memory Gauges	Quartz Memory Gauges
Model	EZGAUGE	EZ_GAUGE MM	EZ_VALVE	SURF_GAUGE	EZ_QUARTZ
Sensor Type	Piezoresistive				Quartz
Pressure Range	3k, 10k, 15k PSI				5K,10K,15K PSI
Accuracy	+/- 0.025% FS typical, 0.05% Long Term Max.				+/- 0.025% FS
Resolution	>0.00025% FS Typical (<0.02 psi para 10KPSI)				0.01 PSI
Temp. Range	0-150°C (302°F)		-20 a 85°C		0-150°C (302°F)
Extended Temp. Range	0-177°C (350°F)				0-177°C (350°F)
Temp. Error	+/- 1° typical, max. 2°C (for the whole range)				+/- 0.5°C
Temp. Resolution	0.005°C				
Memory Capacity	default 1,720,000 (extended 3,440,000)				
Battery	1 AA Lithium Cell (3.6 or 3.9V) 150°C / 165°C / 180°C		1 C Lithium Cell 85°C		1 C Cell 150°C / 180°C 2 C Cells 150°C / 180°C
	Extended capacity option available				
Battery Life	over 2500 hrs (typical 3000 hrs)		typical 8000 hrs (10 sec sampling)		over 2500 hrs (10 sec sampling)
Program Steps	up to 20 steps				
Sampling Time	1sec to 18 hrs (0.1 sec to 1.8 hrs for high speed sampling versions)				
Step Duration	1 min to 45 days				
Diameter	19.05 mm (0.75")	25.4 mm	25.4mm(1") for 1" pockets 38.1mm(1.5") for 1.5" pockets	36 mm	31.75mm (1 1/4")
Length	250mm (9.8")	290mm (18.1")	460mm (for 1" pockets) 525mm (for 1.5" pockets)	225 mm	460 mm (18")
Housing H2S Resistant	YES				
Sensor Wet Side H2S Resistant	YES				
Communication	USB INTERFACE			Wireless con SurfReader or PC	USB INTERFACE
SRO Option	YES	YES	No	YES	YES
Software	Seven/8/10 and 11				