

NeoSapphire



The NeoSapphire electronic downhole gauges are designed with low costs and easy to use as the main criteria. It can be used as memory gauge or surface readout (SRO) gauge. The gauge also writes data into gauge memory at SRO mode to have data backup and integrity. It can be run by field personnel with limited computer and electronic product knowledge.

The typical applications of this model include slickline gradient and pressure build-up jobs. With a unique low power consumption design, a single C battery can run over a year at regular operations. MaxView and MaxSRO software allows operators to conduct programming, downloading, and reporting very easily.

Applications

- Pressure Gradients
- Pressure Build-up Tests
- Drill Stem Tests
- Production Tests
- Injection Pressure Monitoring
- Coil Tubing Operation

Specification

Sensor Type	Silicon-Sapphire
Pressure > Ranges	Up to - 25,000 PSI
> Accuracy	±0.03% (full scale)
> Resolution	0.0003%
> Drift	<3 psi / year
Temperature > Rating	125°C(257°F) / 150°C(302°F) / 177°C(351°F)
> Accuracy	±0.5°C
> Resolution	0.01°C
Communications	USB/RS232
Power Source	One AA or C lithium pack, 14 VDC for SRO
Memory Capacity	4M data sets
Data Set Contents	Time / pressure / temperature
Sample Rate	0.1 second to 18 hours per sample
Outside Diameter	0.75"(19.1mm) / 1.0"(25.4mm) / 1.25"(31.8mm)
Overall Length	9" (229mm), 11"(279mm)
Housing Material	Inconel 718 / Stainless Steel 17-4
Service	H ₂ S

