NeoSapphireXM

Neotek

The NeoSapphireXM is designed for critical well conditions by welding the sensor onto the housing, so there is no potential leaking pass between sensor and housing. Both metal to metal and elastomer seals are used to secure the sealing between battery housing and electronics.

Six pins with locking mechanism connector is used to provide dual power channels and prevent the battery from disconnection during staying downhole.

Neotek innovative design allows this model to work at 177 ˚C for the long term. Thus, most customers choose this model for high temperature and pressure with vibration/shocking and/or sour conditions, but still at a lot lower costs than quartz gauges.

Applications

- **H2S or other Corrosive Conditions.**
- **Pressure Gradients**
- **Pressure Build-up Tests**
- **Drill Stem Tests**
- **Injection Pressure Monitoring**
- **Coil Tubing Operation**

Specification

	Sensor Type	Silicon-Sapphire
Pressure	**> Ranges**	Up to - 20,000 PSI
	> Accuracy	±0.03% (full scale)
	> Resolution	0.0003%
	> Drift	<3 psi / year
Temperature	**> Rating**	150˚C(302˚F) / 177˚C(351˚F)
	> Accuracy	±0.5˚C
	> Resolution	0.01˚C
	Communications	USB/RS232
	Power Source	One C or CC lithium pack
	Memory Capacity	4M data sets
	Data Set Contents	Time / pressure / temperature
	Sample Rate	0.1 second to 18 hours per sample
	Outside Diameter	1.27"(32.3mm) / 1.5"(38.1mm)
	Overall Length	11"(279mm)
	Housing Material	Inconel 718
	Sealing	Metal to Metal and Elastomer

Neotek Pressure Corp.
info@neotekpressure.com