

NovaPT™ Ultra-High Temperature Sapphire Fiber Downhole Pressure Sensor



The Sentek Instrument NovaPT™ is a single crystal sapphire sensor that offers highly accurate and simultaneous pressure and temperature measurements. The system consists of the NovaPT™ sensor probe ready for immediate downhole installation, an interrogator unit and software that provides data logging and monitoring.

NovaPT™ utilizes a sapphire crystal based fiber optic sensor designed to provide superior measurement performance and excellent operational reliability. Its performance is unmatched. The NovaPT™ is **engineered to operate under temperatures ranging from 150°C to 400°C**. It is also designed to perform in the presence of environments that contain chemically aggressive species such as hydrogen and hydrogen sulfide.

The NovaPT™ is the best in class solution for downhole pressure and temperature monitoring applications such as on and off shore wells, conventional and unconventional wells, SAGD wells, geothermal power generation wells and any other application where an exceptionally harsh environment is involved.



WE CHALLENGE THE IMPOSSIBLE

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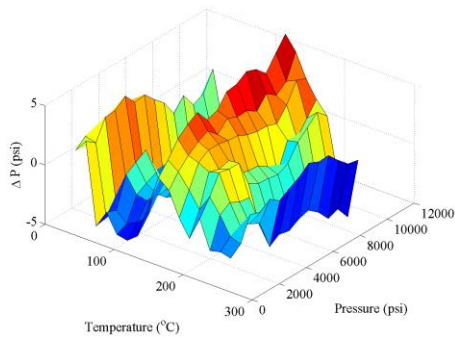


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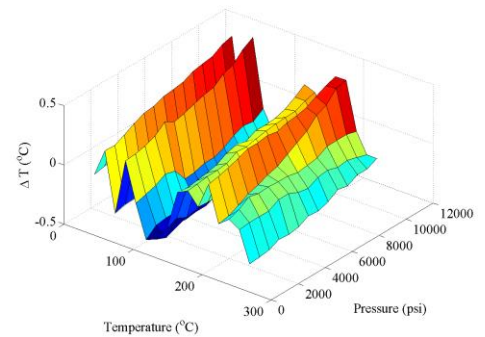
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Technical Specifications

Maximum Temperature	150°C	200°C	250°C	300°C - 400°C
Pressure Range	0-2,000psi 0-10,000psi	0-2,000psi 0-10,000psi	0-2,000psi 0-10,000psi	Available Upon Special Request
Pressure Accuracy	0.05% F.S.	0.05% F.S.	0.05% F.S.	
Pressure Resolution (RMS)	0.005% F.S.	0.005% F.S.	0.005% F.S.	
Maximum Drift Per Year	<0.02% F.S.	<0.02% F.S.	<0.02% F.S.	
Temperature Accuracy	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C	
Temperature Resolution (RMS)	0.05°C	0.05°C	0.05°C	
Data Update Rate	1Hz	1Hz	1Hz	
Sensor Diameter	1" (25.4mm)	1" (25.4mm)	1" (25.4mm)	



Resolution, repeatability and accuracy:
+/- 0.5psi, +/- 2psi, +/- 5psi



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