

Cased Hole Services

Sub Surface Quartz Pressure Gauges

Spartek Systems specializes in providing the oil and gas industry with high quality data to monitor well performance and diagnose potential problems. Founded in 1994, Spartek Systems leads the industry in providing cost effective solutions for acquiring reliable production data.

Product Overview

Spartek Systems offers three models of quartz pressure gauges, the SS5063, SS5067, SS5200. All models are based on proven quartz technology pressure transducers coupled with Spartek Systems' superior high temperature electronics and proprietary digital signal processing technology, providing best in class data quality and reliability.

Quartz technology provides superior performance in applications where data quality is critical. The quartz transducer provides better long term stability and greater accuracy than piezoresistive transducers. Spartek Systems offers a full line of competitively priced quartz pressure gauges for a range of applications; low pressure, low temperature, high pressure, high temperature, and corrosive environments. The SS5200 has been specifically designed to operate in hostile environments up to a maximum temperature of 200C.

Applications

- Well testing
- Monitor well performance
- Permanent sensors (monitoring)
- Completion diagnostics
- Well stimulation
- Reservoir characterization

Primary Features

- Superior data quality / stability
- Improved resolution / accuracy
- High temperature rating
- Large memory capacity
- Surface readout
- Metal to metal seals



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Sub Surface Quartz Pressure Gauges

MODEL	SS 5063	SS 5067	SS 5200
Pressure Sensor Type Pressure Ranges (Accuracy % FS)	Quartz 10000 psi (0.020% Full-Scale) 16000 psi (0.020% Full-Scale)	Quartz 10000 psi (0.020% Full-Scale) 16000 psi (0.020% Full-Scale) 20000 psi (0.020% Full-Scale) 25000 psi (0.020% Full-Scale) 30000 psi (0.025% Full-Scale) 35000 psi (0.025% Full-Scale)	Quartz 16000 psi (0.020% Full-Scale) 20000 psi (0.020% Full-Scale) 25000 psi (0.020% Full-Scale) 30000 psi (0.025% Full-Scale) 35000 psi (0.025% Full-Scale)
Resolution Drift	0.00006% Full-Scale < 0.020 % Full-Scale / year	0.00006% Full-Scale < 0.020 % Full-Scale / year	0.00006% Full-Scale < 0.020 % Full-Scale / year
Temperature Calibrated Range	25°C-177°C – 77°F-350°F	25°C-177°C -- 77°F-350°F	25°C-200°C -- 77°F-392°F
Accuracy Resolution	0.25°C -- 0.45°F <0.005°C -- <0.009°F	0.25°C -- 0.45°F <0.005°C -- <0.009°F	0.25°C -- 0.45°F <0.005°C -- <0.009°F
Power Requirements Voltage (min) Current (Sleep) Current (Sample)	5 V 0.2 mA 12 mA	5 V 0.2 mA 12 mA	5 V 12 mA 28 mA
Data acquisition Channels Fastest sample rate Memory Capacity Redundant Memory	Pressure Temperature Time 10 sample/sec 1,000,000 samples (optional) 2,000,000 or 4,000,000 2x, 4x	Pressure Temperature Time 10 sample/sec 1,000,000 samples (optional) 2,000,000 or 4,000,000 2x, 4x	Pressure Temperature Time 10 sample/sec 500,000 samples Not Available
Gauge Material Diameter Length Seal Configuration	Inconel 718-NACE/17-4PH 0.750 (Varies with configuration) 2x O-Ring/Backup	Inconel 718-NACE MP35N (25000 psi or greater) 1.27 (Varies with configuration) Metal C-Ring, 2x O- Ring/Backup	Inconel 718-NACE MP35N (25000 psi or greater) 1.27 (Varies with configuration) Metal C-Ring, 2x O- Ring/Backup
Communications	RS 232 / USB	RS 232 / USB	RS 232 / USB
Software Compatibility	Windows 7/Vista/XP/NT/2000	Windows 7/Vista/XP/NT/2000	Windows 7/Vista/XP/NT/2000
Surface Readout	Yes	Yes	Yes



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