



# ELECTRONIC MEMORY RECORDERS

## Hostile Environment Acquisition Tool

**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 well information.

### Product Overview

The SS2110 Hostile Environment Acquisition Tool (HEAT) is a memory based instrument designed to acquire temperature and pressure data in the most challenging well environments. The HEAT records up to 666,666 data points of pressure and temperature. It is capable of operating in well temperatures to 600°F, and pressures to 20,000 psi. The HEAT has demonstrated superior operational performance in wells with temperatures greater than 570°F. The instrument utilizes a vacuum flask to insulate the internal electronics, pressure transducer and batteries from the high temperatures in the well-bore. A special tool housing made of Inconel-718 is employed to provide resistance to any corrosive chemicals present in the well.



The SparGauge software package controls the memory programming and the downloading of data from the tool. The software also facilitates the data presentation, so as to allow the user to quickly create gradient plots, pressure and temperature versus time plots, and many other reports with minimal effort. In addition, if combined with Spartek's Line Management System the pressure and temperature data can be presented in an API Log format to display pressure and temperature curve data versus well depth.

As an easy reference, the theoretical temperatures and time durations at which the HEAT will operate are 600°F (315°C) for 4 hours, 500°F(260°C) for 6 hours, and 400°F (204°C) up to 8 hours.

### Primary Features

- ▶ 600°F maximum temperature for 4 hours
- ▶ 20,000 psi maximum pressure
- ▶ Sour Service Rated (Hostile environment)
- ▶ RTD Probe for Well Temperature Profiles
- ▶ Metal To Metal Seals
- ▶ USB for Fast Data Retrieval
- ▶ Easy Setup and Programming
- ▶ Rugged and Reliable
- ▶ Windows 7/Vista/XP/NT/2000

### Applications

- ▶ Steam Injection Surveys
- ▶ Pressure Transient Surveys
- ▶ Enhanced Recovery Profiles
- ▶ Well Testing
- ▶ Monitor Well Performance
- ▶ Completion Diagnostics
- ▶ Well Stimulation
- ▶ Reservoir Characterization
- ▶ Gradient Surveys

## SPARTEK SYSTEMS

Providing Our Customers With "Best In Class" Technology

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Specifications:

<b>MODEL</b>	<b>SS2110</b>
<b>Pressure</b> Sensor Type Range(s) (psi) Accuracy Resolution Drift	Sapphire 10000, 15000, 20000 0.05% Full-Scale 0.0003% Full-Scale < .03% Full-Scale / year
<b>Temperature</b> Sensor Type Range Accuracy Resolution Drift	External RTD Class one -20°C to 315°C / -4°F to 600°F 1.0°C / 1.8°F 0.001°C / 0.0018°F < 1.0°C / 1.8°F per year
<b>Power Requirements</b> Voltage (min) Current (Sleep) Current (Sample)	3 V 0.10 mA 4.50 mA
<b>Data Acquisition</b> Channels  Fastest sample rate Memory Capacity Options	Pressure Pressure Sensor Temperature External Temperature Time 1 sample/second 666,666 samples 1,333,333 samples Pressure Trigger
<b>Housing</b> Material Diameter Length	17-4 PH / Inconel 718-NACE 1.69" 50 inches
<b>Communications</b>	RS232 / USB
<b>Surface Read Out</b>	No
<b>Software Compatibility</b>	Windows 7/Vista/XP/NT/2000

Specifications subject to change without notice

For More Information, Pricing, and Technical Support Contact:



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