



# ELECTRONIC MEMORY RECORDERS

## Wellhead Data Recorder

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 SS6100 Wellhead Data Recorders (WHDR) provide a cost effective solution for monitoring well pressures and temperature. The system can be configured to measure up to three independent pressure or temperature sensors. Each "smart stem" is independently calibrated from the main body. Both Quartz and Sapphire pressure sensors are available. This allows the user to reconfigure the system as needed or use back up "smart stems" when calibrations are required.

The system utilizes an intelligent, primary lithium, non-restricted-for-transport battery pack (a lithium-ion rechargeable pack with accompanying charger are also available). This power system provides the user with the necessary feedback to ensure that sufficient power is available for the duration of the survey. With memory capable of storing 4 million samples, when fully charged, this low power WHDR has the capability of acquiring data for over one year.



### Primary Features

- ▶ Approved for Intrinsically Safe, Ex ia IIB T3 Ga
- ▶ Independently Calibrated "Smart Stems"
- ▶ Superior data quality / stability
- ▶ Wide operating temperature range
- ▶ Available in a several pressure ranges to optimize results (750 psi to 15,000 psi)
- ▶ Programmable sample rates (1 sample/sec max)
- ▶ 4 million sample memory capacity
- ▶ Intelligent primary lithium battery pack
- ▶ Low power consumption
- ▶ LCD character display (magnetic switch activation)
- ▶ Lightweight & compact in size makes for easy installation and handling
- ▶ High speed data transfer interface (USB 2.0)
- ▶ Field maintainable
- ▶ Windows OS: 10/8/7/Vista/XP

## SPARTEK SYSTEMS

Providing Our Customers With "Best In Class" Technology

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Specifications:

<b>MODEL SS6100</b>			
<b>Input channels</b>	1-3 Channels (see Sensor Types)	<b>Operating Range</b>	-40°C to 70°C (-40°F to 158°F)
<b>Pressure Sensor</b> Sensor type Available ranges  Accuracy <sup>1,2</sup> Resolution  Sensor type Available ranges Accuracy Resolution  Stem Housing	<b>Sapphire (piezo-resistive)</b> 750, 1500, 3k, 6k, 10k or 15k (psi) 0.3 psi or 0.03% Full Scale 0.0003% Full Scale  <b>Quartz</b> 5k, 10k or 15k (psi) 0.020% Full Scale 0.0002% Full Scale  17-4 PH Stainless or Inconel-718	<b>Temperature Sensor</b> Sensor Type Probe Housing Probe Sheath Remote Distance Range Accuracy Resolution	Remote fast response RTD 17-4 PH Stainless 316 Stainless Standard 10m (optional up to 30m) 177°C (350°F) +/- 0.4°C (0.7°F) 0.005°C (0.009°F)
<b>Calibration</b>	< 3 psi drift per year (Recommend re-calibration every 9 -12 months)	<b>Data Acquisition</b> Total Sample Capacity Maximum Sample Rate Programmable Sample Modes	4,000,000 samples 1 sample/second Up to 15 different intervals
<b>Power</b>	Primary Lithium dedicated I.S. Battery (non-restricted for transport). (Operating -40°C to 70°C)  Lithium-Ion Rechargeable [Non I.S.] (Operating -20°C to 60°C )	<b>Safety</b>	Approved for Intrinsically Safe Ex ia IIB T3 Ga (with IS Battery)
<b>Software OS</b>	Windows 10/8/7/Vista/XP	<b>Communications</b>	Full speed USB 2.0

Notes:

1. Accuracy is larger of the two stated values over the temperature range of -15 °C to 70 °C. This includes the combined effects of hysteresis, repeatability, and the corrected linearity over the calibrated temperature range. At temperatures below -15 °C, the actual error may be as high as 0.05% of Full Scale. Typically, the accuracy will be within the stated specifications.
2. Accuracy can be improved by limiting the range of the calibration (pressure and/or temperature). Consult your Spartek representative for specifications at other calibrated pressure and temperature ranges.

Specifications subject to change without notice

For More Information, Pricing, and Technical Support Contact:



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