



**J & S Instruments, Inc.**

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## **JS-200 SERIES REMOTE TRANSCEIVER UNIT DATA SHEET**

The JS-200 Remote Transceiver Unit w/Modem is a complete multi-channel data logging/communications package. It is comprised of a DT50 dataTaker Data Logger, MM-01 Modem Manager, PSR-12 Power Supply, GC-7-CA Gel Cell Battery w/ Fused Cable, JS-501-2ANG Enclosure, MD56/JS350 Modem, MOD-01 Modem Cable and Phone. This unit is intended for use where landline telephone lines and 120 VAC power are available. See individual data sheets on each component of the respective system.

The JS-501-2ANG Enclosure contains the components in this system. It has a 120 VAC duplex receptacle located within to accommodate the PSR-12 Power Supply which is a 12 VDC regulated unit capable of handling up to 2 amp loads. The enclosure has the entire package parts mounted to its internal plate or walls and has collet style cable passage connectors for bringing in sensor or relay inputs. Power to the system's components runs through a circuit breaker and has both diode and transient voltage power protection. A DIN rail signal/power distribution terminal strip directs the flow of data and power distribution. The DT50 dataTaker is the smart unit in this system. It logs the data from up to 15 each 4-20 mA transmitters, 5 each digital/TTL inputs and 3 each high speed counters or combinations of the same. All inputs have transient surge arrestors for the data logger's protection. This data logger also can provide multiple alarm functions such as changing data collection rates, calling out with alarm messages, recording only on alarm states and controlling local relays via its digital outputs. The MM-01 Modem Manager supplies the communications link to the telemetry equipment. It accepts alarm information from the DT50 and in turn manages the communications with a host computer or pager. If an alarm message reaches a busy or out of order line, it then stores the message for later retrieval until it is successful in its transmission. The MD56/JS350 is a high-speed modem with MNP level compression and correction. Finally, a lighted pushbutton phone is mounted in the enclosure for use by technicians in the field. This package includes full wiring/assembly of the enclosure and components, software for data logging and alarms and 48 hour burn-in of completed system before shipment to the user. SCADA communications is optional using DeLogger Pro 4 Software.

The JS-225 Remote Transceiver Unit w/ Cellular Phone is identical to the JS-200 with the exception that it does not have the MD56/JS-350 Modem and Phone but instead has the JS-300-C Digital Cellular Modem Package. It is intended for use in locations where landline phone lines are not available but cellular phone service addresses the installation site. The user should have the installation site tested for cellular phone reception prior to installation.

The JS-250 Remote Transceiver Unit w/ RF Transceiver is identical to the JS-200 with the exception that it does not have the MD56/JS-350 Modem and Phone but instead has a FGR-115H RF Spread Spectrum Transceiver, EAN0906YA Yagi Directional Antenna and ASM0025CA Cable Assembly.

It is intended for use in locations where line of sight communications up to 20 miles is required and landline phone lines are not available. An additional transceiver unit, omni directional antenna and

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cable assembly are required for use with the host computer. All other additional remote sites will share this host transceiver set up. See picture below with DT505 and 24 VDC power.

## **OPTIONS:**

### **SPP-30 Solar Panel Package**

This package supplies 12 VDC power from a 30 watt solar panel and 90 AHr Gel Cell. It is intended for locations where 120 VAC is not readily available and there is an average of three sun hours per day for continuous loads up to 300 mA.

### **MC-512P Memory Card**

This is used to extend the memory of the DT50 dataTaker from 166,500 to 336,000 data locations.

### **MC-1024P Memory Card**

This is used to extend the memory of the DT50 dataTaker from 166,500 to 506,000 data locations.

### **EAN Series Directional and Omnidirectional Antennae**

These antennae are used to boost the dB gain of the FGR-115H RF Spread Spectrum Transceivers.

### **AS Series Cable Assemblies**

These are used to extend the distance between the Yagi Directional Antennas and the JS-250 RTU.

The JS-200 Series of Remote Transceiver Units come complete with a **full three-year** warranty on the dataTaker Data Logger and one year warranty on all other components against defects in materials or workmanship.

