SSR-6000
Demand Recorder & Pulse Totalizer

Advanced Load Profiling Recorder for Substation, Revenue Metering and Load Survey Applications

☑ Smart Grid Certified

The SSR-6000 Fulfills a Wide Range of Interval Data Recording and Pulse Totalizing Requirements for Metering Applications

- Records, Profiles and Totalizes Pulse Data from Electricity, Gas and/or Water Meters
- Provides 8-Channels of Load Profile Data for Demand Recording Applications
- Available Digital Cellular, Ethernet, Telephone Modem or RS232 Communications
- Totalizes up to 12 Channels of Pulse Data with Individually Scalable Pulse Inputs
- Multi-Level Password Protection Supports Advanced Metering and Read-Only Applications

Manufactured and Tested in the United States of America
**General Description**

The SSR-6000 is an 8-channel solid-state interval data recorder used for collecting, profiling, totalizing and communicating pulse data received from electricity, gas and/or water meters. The SSR-6000 can be utilized in a wide range of pulse recording applications and provides a secure data back-up point for critical revenue metering installations.

The SSR-6000 features a switch selectable 120-240-277 volts AC power supply and cover-mounted optical port. Remote data retrieval and programming can be accomplished through its digital cellular modem, Ethernet, telephone modem and RS232 serial port options. An available pulse I/O option set provides additional status and control functionality with the capability of providing a totalized KYZ pulse output.

The SSR-6000 accepts four sets of Form-C KYZ (3-wire) pulse inputs or eight sets of Form-A KY (2-wire) inputs with programmable 1 to 60 minute fixed or rolling block demand interval periods. The large capacity 128K memory provides ample data storage capacity for advanced load profiling applications.

**Product Applications**

**Interval Data Recorder**

The SSR-6000 generates load profile data for non-IDR equipped meter sites and serves as a secondary data storage device to back-up data at critical revenue metering sites to eliminate estimated billing in the event of a catastrophic revenue meter failure. When equipped with a remote communications option, the SSR-6000 transmits load profile data and can alarm the data collection system of a meter failure.

**End User Monitoring and Energy Management**

The SSR-6000 collects and profiles energy pulse data received from the utility's billing meter and offers a secure point of contact for end users and third-party energy management companies to obtain consumption data without directly accessing the revenue meter.

**Pulse Accumulating Totalizer**

For aggregated demand and billing applications at sites where multiple revenue meters are installed, the SSR-6000 has the capability to totalize up to 12 pulse input streams with scaleable pulse weighting and optional totalized KYZ pulse outputs.

**Specifications**

- **Recorder Pulse Input Channels**: 1 to 8 Programmable, up to 4 KYZ Form-C (three wire) or 8 KY Form-A (two wire) contact inputs
- **Note - All Pulse Inputs are Common Grounded**
- **Pulses per Interval**: 65,535 with status codes disabled, 8191 with status codes enabled
- **Maximum Pulse Rate**: 30 transitions per second
- **Minimum Pulse Width**: 30 milliseconds
- **Contact De-Bounce**: 16mS to 4 Sec. (default @ 50mS)
- **Memory Type**: 128K Li-RAM
- **Data Capacity**: 4 channels, 149 days @ 15 minutes, 8 channels, 74.5 days @ 15 minutes
- **Backup Carryover Rating**: 10 years cumulative, 20 year life
- **Clock**: Line Frequency or Crystal
- **Case Type**: NEMA 3R, Fiberglass Polyester
- **Dimensions**: 8.5"H x 6.5"W x 4.25D
- **Weight**: 6 lbs

**Operating Range**

- **Temperature Range**: -40°C to +85°C
- **Humidity Range**: 0 to 95% non-condensing
- **Power Supply**: 120, 240, 277 VAC Switch Selectable
- **Power Supply Range**: ±15% of Selected Voltage
- **Frequency**: 60Hz, 50Hz, Auto-sensing
- **Burden**: < 5VA typical

**Maximums**

- **Overload**: 120% of Input
- **Surge Withstand (SWC)**: 5000 Volts (exceeds IEEE #472)
- **Dielectric Isolation**: 2500 VRMS Input to all I/O

**Auxiliary Pulse I/O Input/Output Options**

- **Pulse/Status Inputs**: 4 Form-A contact closure inputs
- **Excitation Voltage**: 5 VDC @ 0.5mA,
- **Resistance**: 1000 ohms maximum
- **Control/Alert Outputs**: 4 Form-A isolated contact outputs
- **Operating Voltage**: 250 Volts maximum
- **Operating Current**: 100mA maximum
- **Rating**: 10 billion operations

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**SSR-6000 Ordering Information**

**EMS60LPR - A1 - J2 - MP**

**Display Options**

- **A1**: No Display
- **D1**: LCD Display

**Communications (select one)**

- **J2**: CDMA Digital Cellular Modem
- **T2**: Telephone Modem, 2400 baud
- **T3**: Telephone Modem, 56K baud
- **G**: Ethernet 10/100 Base-T
- **R**: RS232 Serial Interface

**Additional Options**

- **MP**: Auxiliary Pulse Inputs/Outputs (required for totalizing applications)

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