

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 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

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)