



Recorder - Sentry 300 EG

The Sentry 300 EG Data Recorder is a dual-processor DSP-based high-performance electronic data collector which captures and accumulates energy consumption (input pulses) at the metering site. It has a built-in modem which allows remote operation from AS2000 or ITRON MV-90 via the PSTN telephone line. The optocom-end RS485 ports enable formatting of the recorder, or data upload at site using a handheld PC.

Up to four meters with Form C (3-wire) inputs or 8 inputs Form A (2-wire) can be connected to the recorder. Pulse counts from the meters are stored in the 60 KB internal battery back-up memory at programmed interval.

Features and Technical Specifications:

- Meter Inputs: 4 channels Form C (3-wire) or 8 channels, Form A (2-wire); 8-Form C with input extender.
- Real time clock
- Lithium Battery backup for timekeeping and retention memory
- Fully supports PSI Sentry 200 Protocol
- 64KB Data Storage Capacity
- Configuration 8KB Serial EEPROM
- Pulse Count Data Size: 8-, 12-, 16-bit
- Recording Sample Intervals: 1,2,5,15,30,60 minutes
- Built-in Totalizer
- Built-in modem (1200-14,400 Baud).
- Optical Reader/Programmer Port - 9600 Baud
- RS485 Reader/Programmer/Mater-Slave Port - 9600 Baud
- Operating Voltage: 120-277 Vac, +/- 10%, 50/60 Hz
- Input Surge Suppression: 320Vac / 420dc continuous, 90 joules, 4500 Amps
- Operating Temperatures: -40° to +85° Celsius



- Operating Humidity: 5 to 95% non-condensing
- Meter Inputs: 4 channels Form C (3-wire) or 8 channels, Form A (2-wire)
- End-Of-Interval Output: Solid-State, 200Vdc / 150Vac, RMS, 100mA 2 seconds contact closure
- One 2-Wire Status input could be used for Synchronization with End of Interval or for Dial-In triggering
- Two 2-Wire Status inputs for Dial-In triggering when 6-A or form 3T inputs are enough.
- Four Optional Relay Control Outputs
- Two-Level Security Passwords (Read Only, or Read/Write)
- Standart Event History Buffer: 512 bytes (102 events)
- Scheduled and Event Dial-In Function
- Format Protection and Cold Start Jumpers
- Stand-Alone or Master/Slave Operations Mode (up to 32 slaves) via RS485 port

Enclosure

The circuit boards of the Sentry 300 EG are contained in an aluminum NEMA 3R enclosure. Unit measures 7.25" wide x 8" high x 3.125" deep. Enclosure and external connectors/openings can be customized upon customer request. Electronics are door mounted for easy access and replacement.