

CATH-TECH™

SRC-4

Smart Rectifier Controller

REMOTE CONTROL
REMOTE MONITORING
DATA LOGGING
IR FREE CONTROL

GPS Synchronization Optional

A micro processor based cathodic protection rectifier controller, with built-in remote control and remote monitoring capability. The SRC-4 has 128K upgradeable to 2M bytes of non volatile RAM for data and event storage. The SRC-4 can be factory equipped with a GPS engine for interruption synchronization with multiple rectifiers.

The SRC-4 can operate in constant current, constant voltage and autopotential modes. The SRC-4 has four differential reference inputs. In autopotential mode, it controls on the lowest reference-to-structure potential measured and can control on the average or instant OFF potential.

The software is user friendly and the operating system utilizes an intelligent decision process for superior control.

Operator Entered Parameters

- ⇒ Rectifier identification number
- ⇒ Date and time
- ⇒ Minimum output voltage
- ⇒ Maximum output voltage
- ⇒ Minimum output current
- ⇒ Maximum output current
- ⇒ Active reference inputs 1 to 4
- ⇒ Reference calibration
- ⇒ Minimum structure-to-electrolyte potential
- ⇒ Maximum structure-to-electrolyte potential
- ⇒ Shunt calibration
- ⇒ Mode of operation
- ⇒ Data logging frequency
- ⇒ Event storage

Remote Operation

The SRC-4 is fully programmable either locally from the built in keypad and display or remotely from a PC. The



SRC-4 can operate single or three phase rectifiers as well as DC systems.

The SRC-4 is equipped with a RS 232C port for communication with modems, radio modems, satellite cell-phones, cell phones and land lines, note book computers and SCADA systems.

GPS Synchronization

The SRC-4 can be factory equipped with a GPS engine to allow interruption synchronization with other SRC-4 rectifier controllers or GPS

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synchronized current interrupters such as the CATH-TECH™ CI current interrupter.

Control Operation

The SRC-4 will maintain the output of the rectifier within the limits entered by the operator. In the event of a power failure, the unit will automatically record the time of the power failure and shut down. On restoration of power the SRC-4 will log the time of power restoration and automatically return to operation.

Field Operation

The keypad and LCD display allow a technician in the field to check the operation of the SRC-4 or to make changes to the operation. Most of the operation functions can be tested from the keypad utilizing the built in test software.

Data Logging

The SRC-4 is equipped with 128K bytes of non volatile CMOS memory and can be factory upgraded to 2M bytes. The SRC-4 stores the data & time as well as rectifier output voltage, rectifier output current and the structure-to-electrolyte potential of the active reference electrodes.

The data stored in memory can be retrieved in the field to a notebook computer or remotely to a PC. The data is exported as a ASCII comma delimited file for direct importation into most spread sheet programs.

The SRC-4 in addition to the operation data can store events such as power failures, operation outside the programmed values, keypad entries, etc.

Installation

The SRC-4 can be factory installed in CATH-TECH™ rectifiers, or supplied as a kit for retrofitting into existing cathodic protection rectifiers.

Have the SRC-4 installed in your next rectifier or retrofit to your existing rectifiers.

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