



Rectifier Monitor Overview

Remote Monitoring of Cathodic Protection

Applications

Cathodic Protection
Gas Pressure
Regulator Stations

Compatibility

CP Rectifier Equipment

Wireless Network

Digital Cellular (GSM)
Global Satellite (Iridium)

Specifications

Size: 12" x 8" x 4"

Weight: 5 pounds

Battery Back-up: Gel Cell

Differential Inputs:

Rectifier Output Voltage:
(Dual Scale: 0-15V, 0-150V)
DC Shunt Current
(Dual Scale: 0-15A, 0-150A)
Reference Cell (0-4V)

AC Control Power Detection

Accessory Modules:

Additional Inputs
Voltage and Current Adjust

GPS-Synchronized Interrupt
(Non-mercury 150A DC)

RF Power: 3 Watts*

Antenna: 3db Enclosure
Mount

FCC: Part 90 and Part 15

Temp: -20C to +70C

UL: Class 1, Division 2,
Group C&D

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Printed in USA

The Rectifier Monitor (RM) is a self-contained wireless remote monitoring unit for CP Rectifier monitoring applications. The RM measures rectifier output voltage, rectifier shunt current and includes AC control power detection. A reference cell input allows pipe-to-soil and potential to structure measurement. Add-on modules provide: additional inputs, remote current and voltage adjustment and GPS-synchronized group interruption.

Our exclusive **StormSense™** module monitors the ionosphere for lightning activity. When an approaching thunderstorm is detected, **StormSense™** triggers the monitors' input relays to electrically disconnect from the Rectifier, the reference cell, and from AC control power. This protects the RM from lightning damage. RM also automatically disconnects from AC power line disturbances.

RM features wide-area connectivity via digital radio; transmitting data wirelessly to the OmniMetrix secure Internet site. No custom software is required; all you need is a PC equipped with Internet Explorer. The monitor compares its input measurements to preset alarm levels and can deliver alarms upon detection of out-of-bounds conditions. Alarm levels and reporting intervals are remotely programmable.

OmniUpdate™ is an OmniMetrix exclusive that performs remote updates. No need for field laptops - the RM's firmware is automatically updated to keep it evergreen over the life of the monitor.

The RM is housed in a NEMA 4X enclosure and includes pole-mounting hardware. Rectifier voltage and current inputs have automatic dual-scale selection for superior accuracy. The Gel Cell backup battery features a smart charging system with battery life test, promising the longest battery replacement interval. An integral Tamper detection function will automatically and instantaneously awaken the unit and cause a Tamper Alarm transmission. This function is utilized for security against unauthorized intrusion of the monitor.



Features

- **StormSense™** Lightning Protection
- **OmniUpdate™** Remote Firmware Update
- Wireless to Web Enabled
- Secure Interactive Website
- Programmable Reporting Interval and Alarm Limits
- Superior Battery Maintenance
- Remote Rectifier Control w/Group Interruption
- NEMA 4X Enclosure
- Tamper Indication

Benefits

- Eliminates Manual Data Collection Costs
- Easiest-to-use CP Monitoring System
- Leverages Extensive Cellular and Satellite Coverage
- Precision 16-bit Current and Voltage Measurements
- No Field Laptop Required / No Custom Software
- Internet Delivered Alarms and Notification

