

WATCHDOG VIP

CP Rectifier Remote Monitor

APPLICATIONS

- Measure and report rectifier volts and amps
- Additional inputs for:
 - Pipe-to-soil potential
 - Multiple negative shunts
 - Intrusion alarm
 - Pig passage notification

FEATURES

- Automatic rectifier and test point readings with alarm notifications (e-mail or text)
- Lightning surge-resistant circuitry
- Inputs- 4 analog, 1 digital and 1 AC mains digital input
- Low cost worldwide communication via GSM/GPRS cellular or Inmarsat satellite
- Easy-to-use web interface– simple data export to all popular CPDM programs
- Firmware reprogrammable over the air (GSM/GPRS)
- Local LCD display simplifies installation and commissioning
- Use external power for pollable operation or internal Li batteries for stand-alone operation



- **Implement CP Remote Monitoring Simply and Cost-Effectively**
- **Eliminate Travel to Remote Sites**
- **Accomplish Compliance Reporting from Your Desk**
- **Improve Pipeline Integrity with Timely Outage Alarms and Reliable Data**
- **Easy to Install**

The new **Watchdog VIP** is the answer to the corrosion professional's need for a simple, reliable, and low-cost CP rectifier remote monitor.

The unit comes from the factory configured to measure rectifier volts, rectifier amps, pipe-to-soil potential, and AC mains detection. The unit is highly flexible, however, with four configurable analog inputs, one digital input, and the AC detection probe, allowing it to handle a wide variety of remote monitoring needs for pipelines, gas, water and electric utilities, highway departments, and upstream E&P companies.

Using field-proven Watchdog lightning surge-resistant circuitry, the Watchdog VIP is the best choice for cost-effective CP rectifier monitoring on pipelines, well casings, bridge decks, and piers.

Product Specifications

Part Number	GSM cellular telemetry: WDF-VIP-GSM Satellite telemetry: WDF-VIP-SAT External antenna kit: 48-0003-21
Operating Environment	Temperature: -40°C to +85°C Humidity: 0 – 100% non-condensing Enclosure: NEMA 4X Polycarbonate
Power	For always ON, pollable operation: 10-35 Vdc or 12-25 Vac external power input (rectifier transformer secondary taps recommended) Internal high-energy lithium batteries function as backup batteries For battery powered, high isolation operation: Internal high-energy lithium batteries (non-rechargeable) provide 3-5 years life under normal operation (bi-weekly reporting)- no external power is required but units are non-pollable from the website
Size	5.3" (135 mm) X 7.8" (200 mm) X 2.8" (72 mm)
Installation	Mounting: Universal brackets included for pole, pipeline marker, or post mounting Connection cable: 10' (3m) molded, weatherproof cable included w/ twist-lock connector to unit
Inputs	4 analog- each configurable to +/- 100 Vdc, +/- 10 Vdc, or +/- 100 mVdc (+/- 10 Vdc setting has > 10 MΩ input impedance for pipe-to-soil potential measurement) 1 digital (dry contact)- use for intrusion alarm, pig passage detector, etc. 1 AC detection probe- detects rectifier AC mains input voltage electric field
Telemetry	GSM cellular telemetry: Quad-band (850/900/1800/1900 MHz) GSM/GPRS Satellite telemetry: Inmarsat IsatM2M



*U.S. Patent number 7,317, 321 and others pending