

## WATCHDOG VIP

CP Rectifier Remote Monitor

### APPLICATIONS

- Remotely monitor rectifier volts, amps and pipe-to-soil potential
- Additional inputs for:
  - Intrusion alarm
  - Optional rectifier power failure alarm
  - Valve position
  - External power voltage level

### FEATURES

- User defined automatic rectifier and test point readings
- Alarm and return to normal notifications via e-mail and/or text
- Lightning/power surge-resistant circuitry
- Global communication to Watchdog systems via cellular or satellite telemetry
- Easy to use web interface
- Firmware reprogrammable over the air (cellular)
- LCD display for on-site information
- Power via external 10-35 Vdc or 12-25 Vac
- Rechargeable backup battery system
- Inputs- 4 analog, 1 digital and 1 AC mains digital input
- AC mains on/off detection



- **Import Data into Compliance Reporting Software**
- **No Software Required for Watchdog Web Interface**
- **Two-Way Communication**
- **Improve Visibility of Pipeline Integrity**
- **Easy to Install**

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

Units come factory configured as Ch 1 – volts, Ch 2 – amps, Ch 3– pipe to soil potential (required reference cell not included) and Ch 4– 0-50 Vdc. In addition, the units are equipped with an AC detection probe to measure the presence of AC power to the rectifier and a dry-contact digital input.

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

<b>Part Number</b>	GSM cellular telemetry: WDF-VIP-GSM Satellite telemetry: WDF-VIP-SAT External antenna kit: 48-0003-21 AC detect probe: NTG-01-3340-00
<b>Operating Environment</b>	Temperature: -40°C to +85°C Humidity: 0 – 95% non-condensing Enclosure: NEMA 4X polycarbonate
<b>Power</b>	For always ON, pollable operation: 10-35 Vdc or 12-25 Vac external power input (rectifier transformer secondary taps recommended) Internal rechargeable batteries function as backup batteries
<b>Size</b>	5.3" (135 mm) X 7.8" (200 mm) X 2.8" (72 mm)
<b>Installation</b>	Universal brackets included for mounting inside rectifier cabinet, pole mount or post mount Connection cables: 1ea 7' (2.1m) power cable, 1ea 7' (2.1m) measurement cable Cables are molded and weatherproof and include a twist-lock unit connector
<b>Inputs</b>	Channel 1– Rectifier voltage +/- 200 Vdc (+/-1%) Channel 2– Rectifier current (amps) +/- 100mVdc (+/-1%) Channel 3– Pipe to soil potential +/- 10 Vdc (>10 MΩ input impedance, +/-1%) AC probe-Detects rectifier AC mains input voltage electric field Dry-contact digital input (intrusion alarm, valve position, etc.)
<b>Telemetry</b>	GSM cellular telemetry: Quad-band (850/900/1800/1900 MHz) GSM/GPRS Satellite telemetry: Inmarsat IsatM2M

