

VIP+ CP RECTIFIER REMOTE MONITOR

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



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
- Programmable ranges on all analog channels

The Watchdog VIP+ is a 4-channel monitoring device that offers the configuration flexibility necessary for rectifier sites requiring additional current return monitoring or basic monitoring applications at dual rectifier sites.

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. Each analog channel can be configured for any of the available input voltage ranges.

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.

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 Pipeline watchdog web monitor system 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 or in "report only" mode from the internal Li-SOCL2 battery
- Internal battery assures continued operation during input power failure
- Inputs- 4 analog, 1 digital and 1 AC mains digital input
- Optional AC mains on/off detection
- Modbus enabled, integrates into SCADA network

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Retrieve field data over the internet from any device using the secure access Pipeline Watchdog web interface. Poll sites for instant, up-to-date, readings. Use the “one click” graphing tools to display and print data graphically.



SPECIFICATIONS

Part Number	Modbus: WDF-VIP-MB GSM cellular telemetry: WDF-VIP-GSM-CBA Satellite telemetry: WDF-VIP-SAT External antenna kit: 48-0003-21
Operating Environment	Temperature: -40°C to +85°C Humidity: 0 – 95% non-condensing Enclosure: NEMA 4X polycarbonate
Power	For always ON, pollable operation: 10-35 VDC or 12-25 VAC external power input Internal LiSOCL2 batteries function as backup power source or as primary power source when operating in “report only” mode (if external power is not available or not desired)
Size	5.3” (135 mm) X 7.8” (200 mm) X 2.8” (72 mm)
Installation	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
Inputs*	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%) Channel 4– Rectifier current (amps) +/- 100mVdc (+/-1%) AC probe-Detects rectifier AC mains input voltage electric field Dry-contact digital input (intrusion alarm, valve position, etc.)
Telemetry	GSM cellular telemetry: Quad-band (850/900/1800/1900 MHz) GSM/GPRS Satellite telemetry: Inmarsat IsatM2M Modbus enabled



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Manufactured in the USA

U.S. Patent number 7,317, 321 and others pending
*input values displayed are factory default values. All analog channels are configurable for volts, current, or potential.
Product specifications are subject to change