

PATRIOT PLUS™ TRIPLE COUPON TEST STATION & BOND MONITOR

The Patriot PLUS is designed as a self-contained wireless remote monitoring system that meets all your cathodic protection needs including:

BENEFITS:

- **NEW** – AC / DC current density measurements
- **NEW** – Bond monitoring applications
- AC/ DC pipe-to-soil
- Native pipe-to-soil
- Instant off
- Unlimited alarms and notifications
- Durable polycarbonate enclosure
- Indefinite data retention



OmniPRO

OmniPRO is a new data management site offered by OmniMetrix. Keeping track of critical data, assets and your team has never been easier.

- Integrates with OmniMetrix monitoring products
- Fleet/asset tracking
- Track and report problem areas with geo-targeted locations and pictures
- Map overlay option including test stations
- Inventory management capabilities
- Customizable alerts and alarms
- Time and material insights
- Survey graphing
- Integrated navigations and directions
- Custom setup and modules available

WHY USE A COUPON SYSTEM?

Coupons may be used in a wide variety of applications. The most common is for buried or submerged pipelines. They are also used for USTs, on-grade storage tank bottoms, reinforcing steel in concrete, internal surfaces of elevated or on-grade water storage tanks and various other structures in aqueous environments. Coupons may be used when any of the following conditions occur:

- Current from multiple rectifiers must be interrupted synchronously or non-synchronously
- Foreign CP systems are present in the area, for which either the locations are unknown, or the rectifiers cannot be interrupted, resulting in IR-Drop errors in the off-potential measurement
- Sacrificial anodes are directly connected and cannot be interrupted, resulting in IR-drop errors in the off-potential measurement
- Long-line or telluric currents that result in IR-drop errors that interruption cannot eliminate
- Stray current that causes significant IR-drop errors in the off-potential measurement
- Structures utilizing polarization or depolarization criterion
- Appendix D1, Criteria for Cathodic Protection CFR 49 Part 192
- Locally corrosive areas in an otherwise noncorrosive environment
- Rapid IR spikes immediately following interruption that cause errors in the off-potential measurement
- Multiple pipelines in the same right-of-way that produce interference with one another
- The structure may be under the influence of alternating current
- No known CP problem exists, but additional information is desired

PRODUCT TECHNICAL DETAILS & OPTIONS

APPLICATION:

- CP measurements
- Structure-to-soil
- Instant off
- AC measurement
- IR drop
- AC current density
- Polarization decay

WIRELESS NETWORK:

- LTE cellular
- Iridium Satellite for remote areas

SPECIFICATIONS:

- **Sensors:** Up to three coupons (If required)
- Reference electrode (Customer provided)
- **Temp:** -40°C to +70°C
- Waterproof enclosure
- Pipe-to-Soil, Instant Off, Native Potential:
 - ±10 VDC input
- AC Voltage: 100Vac
- AC Current: 200mA
- AC Current Density: 100A/cm²
- Up to 10-year Lithium Manganese Dioxide battery
 - Based on one set of readings per day, reported weekly

SIZE:

- 4" diameter
- Telescoping 101" to 168" long (Transmission model)
- Partial Buried 36" to 52" long (Distribution model)

INPUTS:

- Reference electrode
- Structure (Pipe)
- Native potential coupon
- Protected coupon
- AC Coupon



CERTIFICATIONS:

- EMC: FCC Part 15, Class B
- Radio Compliance: FCC Parts 22 & 24

FEATURES:

- Waterproof design
- Easy to install
- OmniUpdate™ remote firmware updating
- Wireless to web
- OmniPRO, secure website
- Remotely programmable measurement and reporting interval
- Up to 10-year battery
- Programmable depolarization delay: 1-6 days
- Signal strength displayed on website
- No custom software
- Mobile app for convenient monitoring

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