

The RMU1 is an ideal solution for automated remote monitoring of CP coupons and critical bonds terminated in an industry standard 3" CP test station. The RMU1 is equipped with an internal interruption relay and multiple analog measurement channels capable of accurately measuring all required AC & DC parameters for single coupon, dual coupon, and structure bond applications. Measurement data is remotely accessible through an intuitive Internet web interface called corView.

RMU1 Features:

- Simple and very quick to install (typically under 20 minutes)
- Low capital equipment cost and high product reliability
- Economical fixed rate operational communications costs
- Satellite communications for maximum service coverage
- Configurable as a CP coupon or critical bond remote monitor
- Configurable measurement transmission rate
- Test station GPS position information transmitted to corView host
- Measures coupon AC current density, coupon DC current, coupon AC & DC potential, instant-disconnect coupon DC potential, depolarized coupon DC potential, native coupon DC potential, bond AC & DC current, and second structure DC & AC potentials
- Configurable Instant-disconnect measurement delay
- Configurable coupon depolarization time
- Internal temperature measurement and reporting
- DC measurements have >65dB of 50/60Hz AC rejection for stable and accurate readings
- True RMS AC measurements
- High measurement accuracy specified over full temperature range
- Lightning and surge protected
- No connection to Earth ground for maximum lightning immunity
- 3½ digit wide-temperature LCD for local measurement display
- Easy configuration through a PC application
- Powered exclusively from a low cost user replaceable internal battery for maximum lightning isolation and installation simplicity
- Primary battery will last for more than 10 years based on readings transmitted every week
- Small size 3.1" diameter x 4.4" (79mm diameter x 112mm) allows use within most standard CP test stations with supplied cap extender
- Optional test station cover removal alarm transmission to corView
- Optional screw-on cover provides flush mounting inside 3" PVC pipe without the need for a test station
- IP65 waterproof non-submersible enclosure
- Operating temperature range -40°F to +140°F (-40°C to +60°C)



Installed inside a CP test station (cover removed)



Side view (cover removed)



Test station cover installed

corView Features:

- Firewall-friendly Internet web browser access
- corView is intuitive and easy to use
- Password protected user access
- Multiple client user accounts with configurable permission levels
- Display screens for Rectifiers, Test Points, Bond and Coupons
- Graphically displays sites using Google Maps®
- Sites can be grouped (i.e. regions, etc)
- Powerful data and site sorting functions
- Data can be exported in CSV and Excel (via XML) formats
- corView archives 3 years of measurement data
- Color coded display of alarms and site status
- Configurable email call list for alarm conditions
- Low battery warning and alerting
- Alerting for missed communications from sites
- System performance email reports
- Optional data export to 3rd party compliance software