corTalk®

RMU1-ER
Remote Monitor for ER Probes

The RMU1-ER is an ideal solution for automated remote monitoring of an ER corrosion probe which is commonly utilized to measure corrosion rates. The self-contained battery powered device is small enough to be housed in an industry standard 3" CP test station. Measurement data is remotely accessible through an intuitive Internet web interface called corView.

RMU1-ER Features:

- Simple and very quick to install (typically under 20 minutes)
- Measures most types of electrical resistance (ER) corrosion probes
- Configurable ER probe geometry and thickness
- Measures metal loss and ER probe AC & DC potential
- Direct calculation and display of probe metal loss in mil
- Auto-ranging measurement system provides high accuracy readings
- Configurable alarm limits with alarm report exception transmission
- Test station GPS position information transmitted to corView host
- High measurement accuracy specified over full temperature range
- Lightning and surge protected
- Internal temperature measurement and reporting
- 50/60Hz AC rejection for stable and accurate readings
- True RMS AC potential measurements
- 3½ digit wide-temperature LCD for local measurement display
- Easy configuration using a free PC, iOS or Android application
- Powered from a low cost user replaceable internal battery
- Battery will last for 7 to 10 years (reporting plan dependant)
- Low capital equipment cost and high product reliability
- Economical fixed rate operational communications costs
- Satellite (RMU1ER-I) or LTE cellular (RMU1ER-G) communications
- Small size 3.1" diameter x 4.4" (79mm diameter x 112mm) allows use within most standard CP test stations with optional cap extender
- Optional test station cover removal alarm transmission to corView
- IP65 waterproof non-submersible enclosure
- Operating temperature range -40°F to +140°F (-40°C to +60°C)

corView Features:

- Display and graphing of corrosion rate (MPY)
- Configurable smoothing of corrosion rate calculation
- Firewall-friendly Internet web browser access
- Password protected user access
- Multiple client user accounts with configurable permission levels
- Provides basic graphing functions for data visualization
- Graphically displays site locations 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
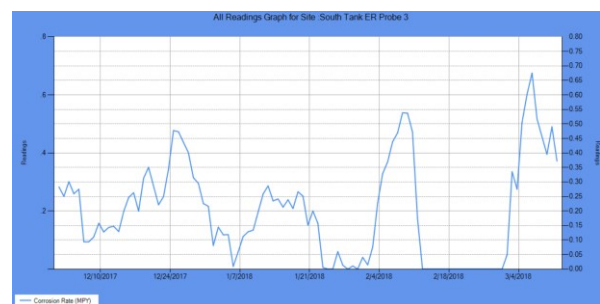- Optional data export to 3rd party compliance software

Installed inside a CP test station (cover removed)

Side view (cover removed)

Test station cover installed

MPY corrosion rate graph