

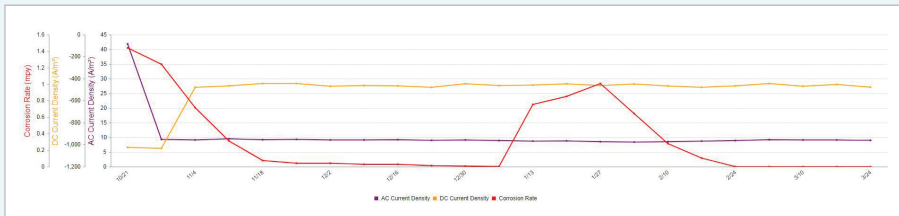
WATCHDOG TRACKER CR

AC INTERFERENCE MONITORING SYSTEM

RELIABLE REMOTE MONITORING OF AC MITIGATION TO TRACK PIPELINE CORROSION RISK.

AC interference can do serious damage to pipelines. Your job is to prevent it from happening; Watchdog Tracker CR is the tool to help you stay ahead of problems. It's the next generation, all-in-one solution for remote data acquisition and corrosion risk management in AC interference areas.

Watchdog Tracker CR measures, records, and transmits pipeline potentials, current densities, and corrosion rate values for compliance with the NACE SP21424 standard. Typically measurements are taken hourly for compliance with the standard.



The Elecsys Connect interactive graph tool enables overlaying of multiple data-sets simplifying the process of evaluating the effects of corrosion risk factors.

The "Date Range" can be changed on the fly, and volatile data trend lines can be smoothed out by averaging the values of historical data points.



WATCHDOG TRACKER CR

Key Features:

- Turnkey system including monitor & ground probe
- Built-in data logging
- Simple installation & intuitive operation
- Wireless interface with Elecsys Connect
- Accessible from any web-enabled device

APPLICATIONS



Oil, gas, water pipelines



Comprehensive AC interference monitoring



Corrosion rate measurement



AC & DC current density measurements



THE ONLY TURN-KEY RMU SYSTEM TO REPORT ALL AC INTERFERENCE DATA

The Elecsys Watchdog Tracker CR automatically measures, records, and transmits important AC interference data from remote locations. Gain reliable reporting of interference level values, corrosion rate, and cathodic protection measurements.

Elecsys Watchdog Tracker CR benefits:

- Accurate reports of pipeline voltages
- AC/DC current densities, AC current drain, and corrosion rate
- Automatic alarm notifications
- Around the clock assurance that AC mitigation is functioning

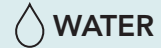
PRODUCT SPECIFICATIONS

| | | | |
|-----------------------|--|------------------|------------|
| Part Number | Verizon CAT-M modem: TR-CR-N16 TR-CR-N16-XL ATT LTE-M modem: TR-CR-N15 TR-CR-N15-XL IDP satellite telemetry: TR-CR-S3 TR-CR-S3-XL | | |
| Input Connections | Structure 1 (pipeline) Structure 2 (second pipeline or "native" coupon) Reference cell "Protected" coupon "AC" coupon (Note: The Tracker CR enables AC and DC current density measurements to be recorded using a common coupon, or separate coupons depending on the requirements for compliance determined by the operator.) Shunt/CT coil + Shunt/CT coil - Custom ER probe | | |
| Measurements | Type | Range | Resolution |
| | DC potential (structure 1 to reference) | -10V to +10V | 1mV |
| | AC potential (structure 1 to reference) | 0 – 35V rms | 10mV |
| | DC Potential (structure 2 or native to reference) | -10V to +10V | 1mV |
| | AC potential (structure 2 or native to reference) | 0 – 35V rms | 10mV |
| | Protected coupon "instant off" (coupon to ref.) | -10V to +10V | 1mV |
| | AC current density (structure 1 to coupon drain) | 0 – 500 mA rms | 0.1mA |
| | DC protection current density (structure 1 to coupon) | -100mA to +100mA | 0.6µA |
| | AC drain current (voltage across external CT coil) | 0 – 500 mV rms | 0.1mV |
| | DC bond shunt current (across external shunt) | -150mV to +150mV | 0.1mV |
| Corrosion Rate | Probe element thickness | +/-0.1% | |
| Data-logging | Embedded SD - >15 years of samples at 1 minute sample rates Sample frequency up to every 1 minute | | |
| Power | Lithium battery (3 to 5 year life under normal conditions and operating parameters) Connection for external power: 6.5 to 18 VDC (nominally 12V solar) Solar panels or power system optional | | |
| Operating Environment | Temperature: -30° C to +70° C Humidity: 0-95% non-condensing Enclosure: NEMA 4X polycarbonate | | |
| Size | 5.3" (135 mm) X 7.8" (200 mm) X 2.8" (72 mm) | | |
| Installation | Built-in mounting tabs 15' (4.6m) color coded cable assembly, optional 100' (30.5m) cable assembly | | |

MAJOR MARKETS



GAS



ELECTRICAL



“
WATCHDOG TRACKER CR
IS THE BEST SOLUTION
I’VE SEEN – IT HELPS
US STAY ON TOP OF
AC MITIGATION.”

Manufactured in the USA

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To learn more, please visit us at elecsyscorp.com or call 913-647-0158