

WATCHDOG TRACKER CR

AC/DC 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 AMPP SP21424 standard. Typically measurements are taken hourly for compliance with the standard.



The Elecsys Connect interactive graph tool enables overlaying of multiple datasets 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.



KEY FEATURES:

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



APPLICATIONS



Oil, gas, water pipelines



Comprehensive AC interference monitoring



Corrosion rate measurement



AC & DC current density measurements

MAJOR MARKETS

- + Oil
- + Gas
- + Water
- + Electrical

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

The Lindsay 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.

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

Communications	+ Digital Cellular + IDP Satellite		
Operating Environment	+ Temperature: -30° C to +70° C + Humidity: 0-95% non-condensing + Enclosure: NEMA 4X polycarbonate		
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 		
Enclosure	+ 5.3" (135 mm) X 7.8" (200 mm) X 2.8" (72 mm)		
Measurements	Туре	Range	Resolution
	+ DC potential (structure 1 to reference)	-10V to +10V	1mV
	+ AC potential (structure 1 to reference)	-0-35VAC	10mV
	+ DC Potential (structure 2 or native to reference)	-10V to +10V	1mV
	+ AC potential (structure 2 or native to reference)	0-35VAC	10mV
	+ Protected coupon "instant off" (coupon to ref.)	-10V to +10V	1mV
	+ AC current density (structure 1 to coupon drain)*	0 - 500 mA	0.1mA
	+ DC protection current density (structure 1 to coupon)	-10V to +10V	0.1mA
	+ AC drain current (voltage across external CT coil)	0 - 500 mA	0.1mV
	+ Corrosion Rate	Probe element thickness	+/-0.1%
Inputs	+ 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		
Data-logging	+ Embedded SD - >15 years of samples at 15 second sample rates. (faster rates available with custom configurations). Sample frequency up to every 15 seconds.		
Installation	+ Built-in mounting tabs for mounting to standard PVC riser + 7' (2.1m) color coded connection		



To learn more, please visit us at lindsay.com/elecsys or call 913.647.0158