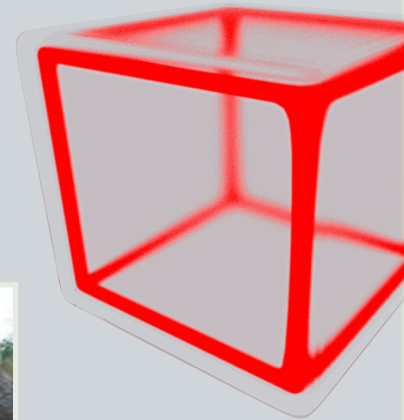


spotOn[®] CP



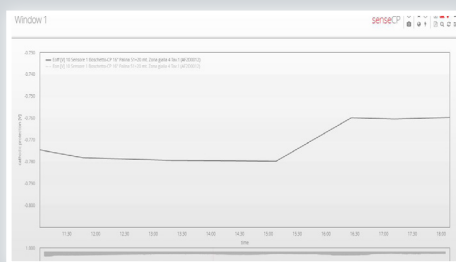
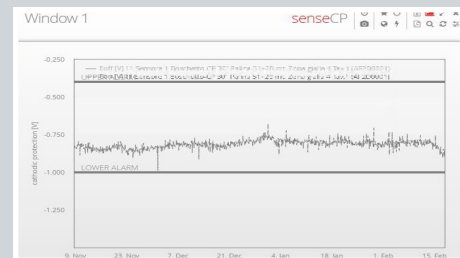
Is a low cost and high performance cathodic protection (CP) monitoring system for CP test points and/or rectifiers.

SpotOn[®] CP is rugged, field proven and designed for reliable data communication from remote sites.



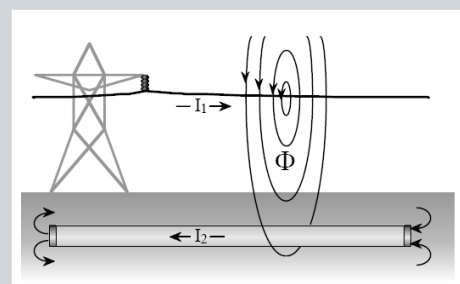
CP enables to monitor pipelines and other assets for:

Cathodic protections levels: The minimum requirements for testing the effectiveness of cathodic protection systems are set in international standards such as EN13509:2003 and NACE SPO169 + TMO499. SpotOn[®] CP enables to easily verify compliance with existing standards and regulations.

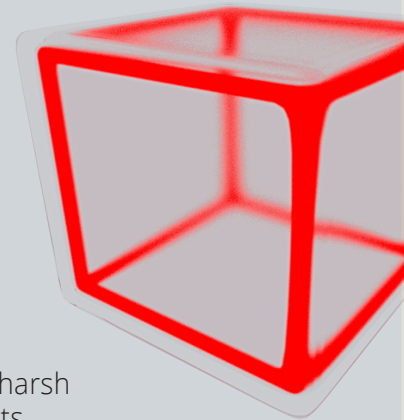


CP variations due to changes to soil conditions: Soil moisture due to periodic or sudden environmental changes affects the resistivity. Changes in soil resistivity could cause major changes to the electrical isolation of a buried pipeline, which is recorded via a change in CP readings. SpotOn[®] CP can monitor soil moisture enabling to correlate changes in CP readings to changes in soil resistivity.

AC interference on pipelines: SpotOn[®] CP monitors AC current and voltage making it possible to identify AC interference from high power lines or railway lines. AC interference induced corrosion is difficult to prevent, detect and manage. SpotOn[®] CP enables to reduce risk of unexpected failures due to AC interference by continuously monitoring the pipeline.



spotOn[®] CP



Accurate

- Detects small DC and AC voltage and/or current variations
- Remotely configurable data collection rate to track fast-evolving events

Works Everywhere

- IP67 to IP69K
- Cellular, WirelessHART or satellite link
- Datalogger



Robust

- Withstands harsh environments
- Surge protected against lightnings

Cost effective

- One time access
- No need for additional IT investment

Reliability

- Use sensors with high reliability and low maintenance

spotOn[®] CP detects coating failure, AC interference and third party damage on pipelines and other structures



spotOn CP+ TECHNICAL & OPERATING SPECIFICATIONS

Eon/Eoff measurement resolution	better than 0.1mV
Eon/Eoff measurement range	up to ±70 V DC, 50 V RMS AC
current density resolution	better than 0.01 mA
current density range	in excess of ±14 A DC, 10 A RMS AC
coupon type	concentric
reference electrode type	zinc — other types optional, e.g. copper/copper sulphate
calibration	automatic self-calibration
advanced data analysis	AC waveform capture plus spectral frequency analysis
lightning surge protection	multi-stage TVS plus gas discharge
battery life	10 years with one reading and communication every 24 hours, extra battery packs optional
battery type	non-rechargeable Lithium Thionyl Chloride (Li-SoCl ₂)
ambient temperature	40°C to 85°C (-40°F to 185°F)
datalink	cellular, WirelessHART, Iridium or Inmarsat, internal or external antenna with optional intrinsically safe tablet datalogger for manual data collection
ingress protection	IP67 — IP69K optional