



ABRIOX

MERLIN6

CATHODIC PROTECTION
A C M O N I T O R

MONITORING AND CONTROL
FOR OIL AND GAS

OVERVIEW

The **MERLIN6 AC Monitor** is a compact Remote Monitoring Unit (RMU) designed to fit invisibly within a CP riser post. AC corrosion is often caused from induced voltages and currents from overhead power lines on the same right-of-way that the pipeline follows. NACE guidelines provide specific limits for AC on the pipeline.

The MERLIN6 monitors and collects AC (and DC) standing voltage and current flow to coupons automatically, checks the measurements against specified alert criteria and reports immediately if an alarm threshold is exceeded. Current density is calculated within the software providing a full picture of the AC interference on your pipeline.

The MERLIN6 can be deployed anywhere on the pipeline network where AC interference is a potential issue, giving you the opportunity to be proactive rather than reacting to an existing problem. Alternatively, it may simply be that certain measurement points on the pipeline create risks to CP technicians, such as at busy road or rail crossings, or are difficult to access, such as on private land. At these points remote monitoring is very cost-efficient and can improve safety.

All measurements are taken automatically by the MERLIN6 and data is seamlessly sent in a management report to the system HQ where it is displayed and archived online via **iCPSM4**.

FEATURES AND BENEFITS

- ▶ Compatible with 4G and 3G networks
- ▶ Cell phone test & set-up
- ▶ Compact size, sealed weatherproof unit for deployment inside riser posts
- ▶ Robust lightning protection and wide operational temperature for all extremes
- ▶ Daily AC standing voltage and current flow to coupon, with optional hourly measure for fault diagnosis
- ▶ Isolated DC and AC monitoring for full corrosion prevention
- ▶ Alarms reported immediately (user preset thresholds for all channels)
- ▶ Weekly report gives min, max and average of all channels for the week



SPECIFICATIONS

DIMENSIONS (H x W x D)

10.83" x 3.15" x 2.36"

INGRESS PROTECTION

NEMA 6

TEMPERATURE RANGE

-40°F to +185°F 100% condensing humidity

COMMUNICATIONS

4G (LTE) and 3G networks

BATTERY BACKUP

5 year life, replaceable battery module

SOFTWARE MANAGEMENT

iCPSM4

ABOUT US

Abriox is a dynamic high technology company specializing in remote monitoring and control for pipelines with US Headquarters in Ohio and European and International Headquarters in the UK.

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 www.abriox.com

 usinfo@abriox.com

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