

## CATHODIC PROTECTION MONITORING

### OVERVIEW

The MERLIN7 CP Monitor is a compact Remote Monitoring Unit (RMU) housed within a test post. The unit collects CP data automatically, checks the measurements against specified alert criteria to comply with \*regulatory guidelines and reports immediately if an alarm threshold is exceeded.

Manually collecting and analyzing field measurements at test posts is labour intensive and costly. The unit monitors and collects pipeline potentials automatically, checks these measurements against user specified alert criteria and reports immediately if an alarm threshold is exceeded.

The MERLIN7 CP Monitor can be deployed anywhere on the pipeline network where it is important to record ON/OFF pipe-to-soil potentials, native coupon potentials and measurements of interfering currents.

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 MERLIN7 CP Monitor and data is seamlessly sent in a management report to the system HQ where it is displayed and archived online via iCPSM4.

With more frequency bands and better mobile coverage the MERLIN7 range of RMUs have greater geographical coverage than ever before.

### FEATURES AND BENEFITS

- ▶ Compatible with 4G and 2G networks
- ▶ Mobile phone test & set-up
- ▶ Compact size for deployment inside test posts
- ▶ Sealed weatherproof unit
- ▶ Wide operational temperature
- ▶ Robust lightning protection
- ▶ Daily CP level check (hourly optional for problem solving)
- ▶ DC and AC monitoring for full corrosion prevention
- ▶ ON / OFF / Native Potentials and coupon current monitoring channels
- ▶ 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)

- ▶ 125mm x 85mm x 55mm

#### INGRESS PROTECTION

- ▶ IP67

#### TEMPERATURE RANGE

- ▶ -40°C TO +85°C 100% condensing humidity

#### COMMUNICATIONS

- ▶ 4G and 2G networks

#### BATTERY

- ▶ 5 year life
- ▶ Replaceable battery module

#### SOFTWARE MANAGEMENT

- ▶ iCPSM4

Specifications are subject to change without prior notice.

\*regulatory guidelines - where applicable

### ABOUT US

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

### GET IN TOUCH

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