

CATHODIC PROTECTION MONITORING

OVERVIEW

The MERLIN XT6 Transformer Rectifier Monitor is an externally mounted durable Remote Monitoring Unit (RMU) that monitors the operation of a transformer rectifier or solar station. It carries out the functional checks of rectifier output (voltage and current) required in order to ensure a continuous CP supply to the pipeline and to comply with *regulatory guidelines.

The MERLIN XT6 uses iridium satellite communications and is designed for use in areas where no cell network service is available. This ensures connectivity across the globe in the most remote locations.

The unit checks that the rectifier remains powered by its external electrical supply (including from a solar station or wind turbine). If the power fails an alarm is transmitted immediately and its internal batteries take over monitoring for up to 2 years.

Because they are usually deployed in remote locations, they will very quickly repay their capital cost when compared to monthly manual checks.

MERLIN XT6 offers additional CP measurements (ON and OFF potentials) as well as the facility to synchronise remotely with other rectifiers on a pipeline for CIPS (Close Interval Potential Surveys) or DCVG (Direct Current Voltage Gradient) surveys.

All measurements are taken automatically by the MERLIN XT6 and data is seamlessly sent in a management report to the system HQ where it is displayed and archived online via iCPSM.

FEATURES AND BENEFITS

- ▶ Full global satellite coverage with fast messaging
- ▶ Weatherproof unit with wide operational temperature
- ▶ Robust lightning protection
- ▶ Fully automatic test and set-up (no laptop required)
- ▶ AC powered (110V to 230V) with 2 year battery backup - DC power option
- ▶ Hourly check of rectifier outputs, ON/OFF potentials
- ▶ Control of rectifier output relay for remote synchronised interruption
- ▶ Compatible with SSR's and **mercury relays
- ▶ Pipeline locate
- ▶ Immediate alarm generation (user preset thresholds on all channels)
- ▶ Weekly report gives min, max and average of all channels for the week

*regulatory guidelines - where applicable

**mercury relays - please ensure that you abide by configurations / guides / laws relevant to the country in which the equipment is being used



SPECIFICATIONS

DIMENSIONS (H X W X D)

- ▶ 315mm x 216mm x 175mm

INGRESS PROTECTION

- ▶ IP66

TEMPERATURE RANGE

- ▶ -35°C to +70°C 100% condensing humidity

COMMUNICATIONS

- ▶ Iridium satellite (meshed constellation)

BATTERY BACKUP

- ▶ 2 year life, replaceable battery module

SOFTWARE PLATFORM

- ▶ iCPSM

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.

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