



ABRIOX

MERLIN6

CATHODIC PROTECTION
TRANSFORMER RECTIFIER MONITOR

MONITORING AND CONTROL
FOR OIL AND GAS

OVERVIEW

The **MERLIN6 Transformer Rectifier Monitor** is a compact Remote Monitoring Unit (RMU) that can be housed within the rectifier cabinet or supplied in a separate enclosure ready for mounting externally.

MERLIN6 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 unit checks that the rectifier remains powered by its external electrical supply. If the power fails, an alarm is transmitted and the unit's internal batteries take over monitoring for up to 2 years. They quickly repay their capital cost when compared to monthly manual checks.

The MERLIN6 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.

Additionally the MERLIN6 controls a solid state Interrupter to provide a signal for tracing the pipeline route.

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 2G networks
- ▶ Mobile phone test & set-up, on-demand readings and control of rectifier output relay
- ▶ Sealed, weatherproof unit with robust lightning protection and wide operational temperature
- ▶ AC powered (110V to 230V) with 2 year battery backup. DC power option for solar stations
- ▶ Hourly check of rectifier outputs, ON/OFF potentials
- ▶ Synchronisation enables close interval surveys to be carried out more quickly, with no rectifier setup. Synchronised to 1ms precision
- ▶ Start with the ON or OFF for interruption, cycles up to 240 seconds
- ▶ Compatible with SSR's and **mercury relays
- ▶ Pipeline locate
- ▶ Immediate alarm generation (user preset thresholds on all channels)
- ▶ Alarms when protection inadequate or power fails at rectifier
- ▶ Weekly report gives min, max and average of all channels for the week



Excel model shown above

SPECIFICATIONS

DIMENSIONS (H x W x D)

85mm x 125mm x 55mm

INGRESS PROTECTION

IP67

TEMPERATURE RANGE

-40°C to +85°C 100% condensing humidity

COMMUNICATIONS

4G and 2G networks

BATTERY BACKUP

2 year life, replaceable battery module

SOFTWARE MANAGEMENT

iCPSM4

*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

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 Ohio.

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