



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. 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 MERLIN6 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 synchronize 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 3G networks
- ▶ Cell 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
- ▶ Synchronization enables close interval surveys to be carried out more quickly, with no rectifier setup. Synchronized 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)

3.35" x 4.9" x 2.17"

INGRESS PROTECTION

NEMA 6

TEMPERATURE RANGE

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

COMMUNICATIONS

4G (LTE) and 3G networks

BATTERY BACKUP

2 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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