

### CATHODIC PROTECTION MONITORING

#### OVERVIEW

The MERLIN Interrupter TX is designed for precise solid state interruption of rectifiers connected to a buried pipeline. Used in conjunction with specific MERLIN and SUNBIRD Transformer Rectifier Remote Monitoring Units (RMUs), it enables interruption (switching of the current output) at a rectifier to be controlled remotely.

Compatible with industry standard interruption patterns, the Interrupter TX may be switched on and off, or the cycle changed, from Abriox's CPSM or iCPSM software. Interruption and cycle time management can also be controlled from a mobile phone when in the field.

Rectifier interruption is used to carry out Close Interval and DCVG (Direct Current Voltage Gradient) surveys, major ON/OFF surveys at CP test posts and pipeline maintenance work.

Additionally, MERLIN and SUNBIRD Excel RMUs provide a feature of controlling the Interrupter TX to generate a signal that can be used for pipeline location.

The Interrupter TX will transmit a user defined frequency between 30Hz and 2000Hz. This will provide a signal range far greater than portable transmitters with minimal additional cost over your remote monitoring system, all controlled by either SMS text messaging in the field or via our dedicated software.

#### FEATURES AND BENEFITS

- ▶ Designed for all interruption cycles and extended use
- ▶ Precision solid state switching
- ▶ Less than 500us switching delay
- ▶ Electromechanical fail safe
- ▶ Short circuit and surge protection on output
- ▶ Wide operational temperature for all extremes
- ▶ Switches up to 20A current (40A below 25°C)
- ▶ Compact size for ease of installation within most rectifier enclosures
- ▶ Compatible with all industry recognized Close Interval and DCVG survey patterns and most portable above-ground survey equipment
- ▶ Quick and easy to install, with labeled connections to MERLIN and SUNBIRD RMUs
- ▶ Outputs a pipeline locate signal when used with MERLIN and SUNBIRD Excel RMUs
- ▶ Robust unit housed in metal casing
- ▶ Can be used worldwide - unlike mercury relay



#### SPECIFICATIONS

##### DIMENSIONS (H X W X D)

- ▶ 17.5cm x 21.8cm x 10.6cm

##### INGRESS PROTECTION

- ▶ IP20

##### TEMPERATURE RANGE

- ▶ -40°C TO +85°C

##### FAIL SAFE

- ▶ Electromechanical

##### OUTPUT PROTECTION

- ▶ Short circuit and surge

##### MAX SWITCHING VOLTAGE

- ▶ 100V peak

#### 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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