

CATHODIC PROTECTION MONITORING

OVERVIEW

The SUNBIRD CUBE Bond Interrupter is a compact Cathodic Protection Remote Monitoring Unit (RMU) designed for precise solid-state interruption of critical bonds. It harvests energy from the sun and incorporates the latest NB-IoT communication technology. Utilizing NB-IoT delivers a communication life beyond 2030. NB-IoT communications also provide greater geographical coverage than existing networks, meaning the unit will work in more locations than was previously possible with cellular communication. Installation is far easier than any other product on the market, no laptops or cell phones required.

The unit also has built-in GPS to guarantee the data is coming from the intended location. 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. In the cases where several pipelines have cathodic protection systems in proximity, crossing other pipelines with interconnected bonds, recording accurate "polarized off" potentials can be difficult, the time and cost to locate and manually disconnect all of the affecting bonds can be considerable.

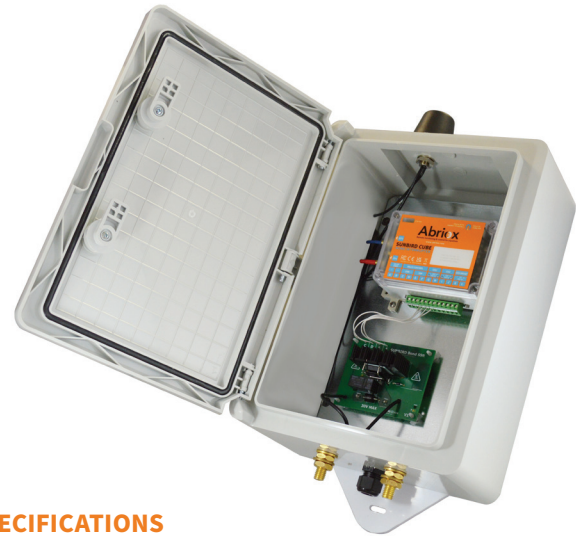
Installations with the SUNBIRD CUBE Bond Interrupter will allow remote monitoring and control of the bonds, they may be switched on and off, or the cycle changed from Abriox's iCPSM4 software. Interruption and cycle time management can also be controlled from a tablet or cell phone when in the field.

Controllable from iCPSM4 the SUNBIRD CUBE Bond Interrupter interrupts in perfect synchronization with other Abriox SUNBIRD units. In conjunction the SUNBIRD CUBE Bond Interrupter can record ON/OFF pipe-to-soil potentials, native coupon potentials and measurements of interfering AC currents. SUNBIRD's plug and play installation allows all measurements to be taken automatically and the data seamlessly sent in every hour to iCPSM4, Abriox's Cloud CP Management System.

A dual current version is also available: **SUNBIRD CUBE Bond Interrupter Dual Current.**

FEATURES AND BENEFITS

- ▶ NB-IoT communications
- ▶ Built-in GPS to confirm the location of the unit
- ▶ USync!™ synchronized interruption with SUNBIRD units
- ▶ Solar powered, no battery changes required
- ▶ Hourly CP level reports
- ▶ DC and AC monitoring for full corrosion prevention
- ▶ Precision solid state switching
- ▶ Switches up to 10A Bond
- ▶ ON / OFF / Native Potentials and coupon current monitoring channels



SPECIFICATIONS

DIMENSIONS (H X W X D)

- ▶ 13.8" x 9.8" x 5.9"

INGRESS PROTECTION

- ▶ NEMA 3S

TEMPERATURE RANGE

- ▶ -22°F TO +140°F 100% condensing humidity

COMMUNICATIONS

- ▶ The SUNBIRD CUBE utilizes NB-IoT communications designed for the Internet of Things and intended to endure beyond commercial fast 5G

INSTALLATION METHOD

- ▶ Automatic installation

POWER

- ▶ Solar Panel

BACKUP POWER

- ▶ 30 days zero sun-hours (excluding interruption)
- ▶ 15 working days zero sun-hours with interruption for 8 hours a day

SOFTWARE PLATFORM

- ▶ iCPSM4

ABOUT US

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

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