

SUNBIRD SP

TEST POST MONITOR

CATHODIC PROTECTION MONITORING



OVERVIEW

The SUNBIRD SP Test Post Monitor is a compact Cathodic Protection Remote Monitoring Unit (RMU) designed to fit on a CP riser post. It harvests energy from the sun and incorporates the latest NB-IoT communication technology.

Solar powered means no batteries required – ever. 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 cellphones required. Unlike other products the data is uploaded every hour and fast logging at a 1s rate can be initiated within an hour. SUNBIRD also has built-in GPS to guarantee the data is coming from the intended location.

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. SUNBIRD can be deployed anywhere on the pipeline network where it is important to record ON/OFF pipe-to-soil potentials, native coupon potentials and measurements of interfering AC currents.

Alternatively, it may simply be that certain measurement points on the pipeline create risks to CP technicians, such as at busy road or rail crossings, or are difficult to access, such as on private land. At these locations remote monitoring is extremely cost-efficient and can improve safety.

Controllable from iCPSM4 the SUNBIRD SP interrupts in perfect synchronization with other Abriox SUNBIRD units. The SUNBIRD SP quickly repays its capital cost when compared to monthly manual checks.

FEATURES AND BENEFITS

- ▶ NB-IoT communications
- ▶ Built-in GPS to confirm the location of the unit
- ▶ Solar powered, no battery changes required
- ▶ 1 second fast logging on demand
- ▶ Hourly CP level reports
- ▶ Sealed weather proof unit for deployment on a 3" test post
- ▶ Easy plug on and off installation
- ▶ Robust lightning protection
- ▶ Wide operational temperature for all extremes
- ▶ DC and AC monitoring for full corrosion prevention
- ▶ ON / OFF / Native Potentials and coupon current monitoring channels
- ▶ Synchronized interruption with SUNBIRD units

SPECIFICATIONS

DIMENSIONS (H X W X D)

- ▶ 9.7" X 4.3" DIAMETER

INGRESS PROTECTION

- ▶ NEMA 6

TEMPERATURE RANGE

- ▶ -22°F to +185°F 100% condensing humidity

COMPATIBILITY

- ▶ The SUNBIRD SP Test Post Monitor has been designed to fit most standard 3" riser posts including Pro-Mark PM TS3, Big Fink, Rhino and Tinker & Razor T-3

COMMUNICATIONS

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

POWER

- ▶ Integrated solar panel

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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