

MONITORING AND CONTROL FOR OIL AND GAS

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 5G IoT communication technology.

Solar powered means no batteries required – ever. Utilizing 5G IoT delivers a communication life beyond 2030. 5G IoT communications also provide greater geographical coverage than existing 3G and 4G 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.

FEATURES AND BENEFITS

- ▶ 5G 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



SPECIFICATIONS

DIMENSIONS (H x Dia)

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

5G IoT. The SUNBIRD SP Test Post Monitor utilizes NB-IoT communications which is a 5G technology 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 Ohio and European and International Headquarters in the UK.

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 www.abriox.com

 usinfo@abriox.com

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