



ABRIOX

MERLIN6

CATHODIC PROTECTION
NITROGEN SLEEVE MONITOR

MONITORING AND CONTROL
FOR OIL AND GAS

OVERVIEW

High and medium pressure pipelines passing under main roads, rivers or centers of population may require additional protection against corrosion. One of the methods used is to encapsulate the pipeline with a metal 'sleeve' filled with nitrogen, an inert gas that prevents the external pipe wall surface from corroding. For this method to be effective, the pressure of the nitrogen in the sleeve has to be maintained. This means operators must check the pressure in the sleeve periodically to make sure that it is not leaking.

Abriox has developed two solutions for monitoring the pressure of the nitrogen gas in the sleeve remotely: the ***MERLIN6 Nitrogen Sleeve Monitor** (typically installed in a GRP cabinet) and the more compact ***MERLIN6 Communications Module with Nitrogen Sleeve Adapter** (typically installed in a plastic M28 post or alternative sleeve fill point).

In both cases, the pipeline operator can check that the sleeve is maintaining the required pressure without undertaking a site visit. The MERLIN6 measures the sleeve pressure automatically, checks that it is within specification and reports immediately if an alarm threshold is exceeded.

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 2G networks
- ▶ Mobile phone test & set-up
- ▶ 5 year life, replaceable batteries
- ▶ Flexible installation options for cabinets and posts
- ▶ Sealed weatherproof units with wide operational temperature for all extremes
- ▶ Daily pressure check (hourly option for fault diagnosis)
- ▶ User settable high and low pressure thresholds
- ▶ Refills can be scheduled in line with pressure drop
- ▶ Weekly report gives min, max and average of pressure readings for the week



MERLIN6 Communications Module shown above

SPECIFICATIONS

DIMENSIONS (H x W x D)

*227mm x 151mm x 80mm
^125mm x 135mm x 55mm

INGRESS PROTECTION

IP67

TEMPERATURE RANGE

-20°C to +85°C

COMMUNICATIONS

4G and 2G networks

BATTERY BACKUP

5 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 European and International Headquarters in the UK and US Headquarters in Ohio.

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