

OSPREY[®] SP

Multi-channel Remote Pressure Monitor





ABOUT ABRIOX®

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

Our core expertise is the development of remote monitoring systems for utilities – and we work with some of the world's biggest oil, gas and petrochemical companies.

Our instrumentation helps improve the efficiency of fuel distribution networks by providing demonstrable asset management, safety, economic, environmental and compliance benefits.

Visit www.abriox.com for more information on how our remote monitoring systems can improve your network management.

Specialists
in Remote Monitoring

OVERVIEW

The Abriox OSPREY SP Multichannel Remote Pressure Monitor is a solar-powered remote monitoring unit that can be installed in pressure regulating stations, district governors and city gates to monitor gas pressure up to 1450psi.

The OSPREY SP provides 'always on' anytime communications. Data is transmitted automatically every hour or on-demand to the PressureTrac system giving accurate pressure in real time; displaying, interpreting and archiving the results and for export into 3rd party network management software and other business systems.

In conjunction with the OSPREY MCA a total of 3 pressure channels are available. In this configuration you can monitor multiple pressures for a complete overview of the network performance; inlet/outlet of pressure regulating stations and filter differentials.

A key feature of OSPREY is its inbuilt GPS module which provides timing reference so that measurements are logged precisely, with no drift or offset. No manual data cleansing is required. GPS also enables the software to identify its geographic location automatically, ensuring that data is always uniquely identified with the correct monitoring point.

FEATURES & BENEFITS

- » Integrated pressure channel options 1.45psi, 14.5psi, 43.5psi, 145psi & 1450psi
- » Instant reading to cell phone
- » Custom high/low alert thresholds
- » Inbuilt GPS timing and location
- » Auto-installation routine
- » Automatic hourly upload with ambient temperature monitoring
- » 5 year battery life (mode and temperature dependent)

TECHNICAL SPECIFICATIONS

Dimensions (H x W x D):
23.5" x 11.8" x 5.9"

Ingress Protection:
NEMA 3S

Temperature Range:
-40°F to +140°F

Communications:
4G (LTE Cat.1) and 3G networks

Battery Type:
Rechargeable lead acid. 5 years (mode and temperature dependent). User replaceable.

Software Management:
PressureTrac

Number of Pressure Channels:
1 (3 total with OSPREY MCA)

Sensor Media Compatibility:
Any gas compatible with stainless steel

Pressure Connection:
1/4" NPT

Real Time Clock Accuracy:
Max error 60 seconds (GPS corrected)

Read/Log Rate:
User configurable

Input Range:
1.45psi, 14.5psi, 43.5psi, 145psi & 1450psi

Sensor Accuracy:
» 1.45/14.5/43.5psi sensors: ±0.15% FS
» 145/1450psi sensors: ±0.20% FS

Sensor Drift (Typical):
» 1.45psi sensor ±0.015psi
» 14.5/43.5/145/1450psi sensors ±0.10% FS

Total Error Band (-4°F to +140°F):
» 1.45psi sensor: ±0.0174psi
» 14.5/43.5/145/1450psi sensors: ±1.0% FS

Total Error Band (-40°F to +140°F):
» 1.45psi sensor: ±0.035psi
» 14.5/43.5/145/1450psi sensors: ±2.0% FS

Measurement Resolution:
» 0.001psi on 1.45psi
» 0.01psi on 14.5psi
» 0.1psi on 43.5psi & 145psi
» 1psi on 1450psi

Data:
'Always on' anytime communication. Data is transmitted every hour or on-demand. Automatic upload with immediate communication on alert

Data Storage:
Internal flash 10 year, time-stamped