

SERVOMEX

OxyDetect - Hazardous Area Locations

NON-DEPLETING PARAMAGNETIC HAZARDOUS AREA OXYGEN MONITOR DESIGNED FOR LIFE SAFETY APPLICATIONS



SERVOMEX OxyDetect

The SERVOMEX OxyDetect is a breakthrough in life safety: a hazardous area oxygen (O_2) monitor that accurately monitors oxygen levels without the sensor deterioration that affects traditional electrochemical sensors used in competitor detectors. Designed for use in life critical applications, the OxyDetect utilizes the Hummingbird Paracube® Modus Paramagnetic sensor, whose industry-leading levels of linearity, accuracy and reliability have ensured its use as a trusted O_2 sensor for the OEM medical market. The OxyDetect demonstrates several advantages over traditional technologies, ensuring an unprecedented level of safety and performance as well as a lower cost of lifetime ownership.

As well as significantly reducing the cost of ownership, the OxyDetect utilizes advanced microprocessor-based diagnostics that are safe, reliable and easy to access via a simple front panel digital interface.

APPLICATIONS

- Pharmaceutical plants
- Instrumentation shelters
- Semiconductor facilities
- Industrial Gas plants
- Bottling plants and storage
- Enclosed areas - Refineries Hydrocarbon Processing Chemicals
- Laboratories & Universities
- Welding facilities and workshops

FLEXIBLE

- Suitable for indoor use for temperatures ranging from 41°F to 113°F (5°C to 45°C)
- Light wall-mountable design for easy installation
- Output range of 0-21% O_2
- 3 x SPCO relays, Alarm 1, Alarm 2, Fault
- Ethernet, Modbus TCP

EASY TO USE

- Easy to use digital interface
- Fault alarm via mA jam to 0mA or SPCO relay
- Simple integration via isolated 4-20mA output with linear measurement

LOW COST OF OWNERSHIP

- Non-depleting Paramagnetic design delivers long life sensor without measurement deterioration
- Eliminates costs associated with regular replacement of electrochemical cells
- Exceptional measurement stability eliminates need for frequent calibration
- Not affected by sterile area cleaning agents

UNRIVALLED PERFORMANCE

- Innovative life-safety performance from the industry leader in Paramagnetic sensing technology
- Uses advanced microprocessor-based diagnostics that are safe, reliable and easy to access

BENCHMARK COMPLIANCE

- IP66
- IEC 61010-1
- Hazardous Area ATEX Cat. 3 IECEx Zone 2 Class 1, Div. 2
- CE, in compliance with Low Voltage, EMC and applicable directives
- SIL2 hardware compliance



Learn more about the OxyDetect
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PRODUCT DATA: OxyDetect - Hazardous Area Locations

SAMPLE FOR MEASUREMENTS

Sample gas	Ambient air
Sample pressure	Atmospheric

MEASUREMENT PERFORMANCE

Measurement	0 to 21% Oxygen
Accuracy	±0.2% Oxygen
Zero drift	<±0.2% Oxygen per month*
Zero temp coefficient	<+/-0.5% O ₂ per 10°C
Ambient pressure effects	<0.04% reading per 1% change ambient pressure
Analog outputs	Isolated 4-20mA, user selectable over measurement range
Relay Outputs	3 x SPCO contacts: 250Vac, 3A or 28Vdc, 1A Alarm 1, Alarm 2, Fault
Ethernet Output	Diagnostics and measurement data, standard RJ45 connector Modbus TCP

ENVIRONMENTAL DATA

Operating temperature	41°F to 113°F (5°C to 45°C)
Storage temperature	23°F to 122°F (-5°C to 50°C)
Relative humidity	10 to 90% RH, non-condensing
Operating altitude	-1,600ft to 13,000ft (-500 to 4000m)
Ingress protection (enclosure) **	IP66
Others	Instrument rated Pollution Degree 2 - indoor use only

DEVICE SPECIFICATION

Size	8.3" (210mm) W x 7.9" (200mm) H x 4.2" (106mm) D
Weight	<5.5lbs (2.5kg)

* After first 48 hours of operation

** In operational use consideration must be made for the protection of the sensor opening which is rated to IP40. Therefore, the instrument should not be exposed to washing with liquid jets.

Please note: This document was updated in June 2016. While every effort has been made to ensure accuracy, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards and guidelines. This document is not intended to form the basis of a contract.

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