

SERVOMEX OxyDetect

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



SERVOMEX OxyDetect

The SERVOMEX OxyDetect is a breakthrough in life safety: a safe area oxygen (O₂) 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® Micro Paramagnetic sensor, whose industry-leading levels of linearity, accuracy and reliability have ensured its use as a trusted O₂ 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.

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 0-25% O₂

EASY TO USE

- Easy to use digital interface
- Fault alarm via mA jam to 0mA
- 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 E-Chem cells
- Exceptional measurement stability eliminates need for frequent calibration

UNRIVALLED PERFORMANCE

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

BENCHMARK COMPLIANCE

- IP40 (indoor use only)

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PRODUCT DATA: OxyDetect

SAMPLE FOR MEASUREMENTS

Sample gas	Ambient air
Sample pressure	Atmospheric

MEASUREMENT PERFORMANCE

Measurement	15% to 25% 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
Analog output range	User selectable over measurement range

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	IP40 (indoor use only)
Others	instrument rated Pollution Degree 2

DEVICE SPECIFICATION

Size	8.3" (210mm) W x 7.9" (200mm) H x 4.2" (106mm) D
Weight	4.4lbs (2kg)

*After first 48 hours of operation

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KEY APPLICATIONS ■ Life-critical safe area oxygen monitoring

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