

Intrinsically Safe Wall Mount IP66 / NEMA4X Oxygen Analyzer



Trace or Percent Configuration

Precision Fuel Cell Oxygen Sensor Technology

Measure Oxygen from 0.01 ppm to 100%

Large Easy-to-Read Display

Intuitive User Friendly Menu Interface

Compact Flow Through Design

Class 1, Div. 2 Groups B, C, D

Cost Effective and Low Maintenance

Applications:

- Hydrogen Production
- Natural Gas Extraction
- Steel & Other Metal Processing
- And Many Other Industrial Applications

Specifications:

| | |
|---------------------------|--------------------------------|
| Accuracy: | < 1% Full Scale Range* |
| Approval: | CE Certified |
| Analyzer Range: | 0 - 10/100/1000/10000ppm/25% |
| Optional Range: | 0 - 1%/5%/10%/25%/100% |
| Area Classification: | Class 1, Div 2, Groups B, C, D |
| Dimensions: | 9.5" x 6.5" x 3.8" |
| Enclosure: | NEMA 4X / IP66 |
| Temperature Rating: | -10 to 50 deg C |
| Temperature Compensation: | Integral |
| Gas Connections: | Configurable |
| Flow Sensitivity: | 0.5 - 5.0 SCFH |
| Output: | 4 - 20mA or 1 - 5 VDC |
| Power: | 12 - 24 VDC |
| Pressure: | 0.1- 50 PSIG, vent to atm |
| Sensor Type: | Precision Fuel Cell |
| Warranty: | 12 Months Sensor |
| Warranty: | 12 Months Electronics |

*Accuracy at constant conditions

"Inquiry for Application Expertise"

Oxygen Analyzer:

The model OMD-150-IS oxygen analyzer combines a rugged in-line design with SSO2's precision oxygen sensors. The result is a highly reliable and cost effective compact design with an easy-to-use user interface.

The oxygen analyzer uses an intrinsically safe Zener barrier and is designed to meet standards for Class 1, Div 2, Groups B,C,D installation.

The analyzer can be configured for trace (parts-per-million) or percent analysis.

The display of the analyzer with its large font is set to auto-range, this allows the user to read O2 throughout all ranges. The output can be range selected through the onboard menu allowing easy interface with a PLC, DCS or other control system.

Gas connections are made with compression tube fittings (1/8", 1/4" or 6mm).

Power Requirements

Input Power: 12 - 24 V DC
Current Draw: 50 mA

Oxygen Sensor Technology:

The oxygen sensor used in the OMD-150-IS is based on the galvanic electrochemical fuel cell principal. All oxygen sensors are manufactured in house by Southland Sensing Ltd. under a strict quality program.

The standard cells are unaffected by other background gases such as H2, He or Hydrocarbons. The acidic cells work well when acid gases such as CO2 or Natural Gas are present.

The sensors are self-contained and minimal maintenance is required - no need to clean electrodes or add electrolyte.

The SSO2 precision oxygen sensors offer excellent performance, accuracy and stability while maximizing the expected life.

Oxygen Sensors:

TO2-1x PPM Oxygen Sensor: Trace Analysis, Standard
TO2-2x PPM Oxygen Sensor: Trace Analysis, Acidic
PO2-160 Percent Oxygen Sensor: Percent Analysis, Standard
PO2-24 Percent Oxygen Sensor: Percent Analysis, Acidic
TO2-19 Hybrid Oxygen Sensor: Percent or Trace Analysis

Oxygen sensors should be periodically calibrated. Factory recommendation is every 2 - 3 months or as the application dictates. Sensors offer excellent linearity with an air calibration, or calibrate to a certified span gas to maximize accuracy.

Order Information:

Record Part Number with selected options in Blank Indicated Area of Form

Model Number:

OMD-150-IS Oxygen Analyzer

Selected Range & Sensor:

- 1 Trace Analysis Standard (TO2-1x): 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 1%, 0 - 25%
- 2 Trace Analysis Acidic (TO2-2x): 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 1%, 0 - 25%
- 5 Percent Analysis Standard (PO2-160): 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100%
- 6 Percent Analysis Acidic (PO2-24): 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100%
- 7 Hybrid Analysis Standard (TO2-19): 0 - 1000 ppm, 0 - 10000 ppm, 0 - 25%

Electronics Package:

- 4 12 - 24V DC Input Power w/ Isolated Analog Outputs

Gas Connections:

- 8 1/8" Compression Tube Fittings
- 4 1/4" Compression Tube Fittings
- 6 6 mm Compression Tube Fittings

OMD-150-IS - _____ - _____ - _____ Use This Part Number When Ordering