

Configurable Online 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
- Cost Effective and Low Maintenance

Optional Electronic Configurations:

- 2-wire loop / 4 - 20mA Transmitter (non-Backlit)
- 6-wire Transmitter, 4 - 20mA and 0 - 10VDC Output
- Intrinsically Safe Option with Zener Barrier
- "Smart" xmitter with Bi-Directional RS485 MODBUS

** MODBUS Pending

Applications:

- Welding & 3D Printers
- N₂, O₂, H₂ Inert Gas Generators
- Laboratories & Universities
- Steel & Other Metals Processing
- Reflow Soldering
- And Many Other Industrial Applications



Specifications:

Accuracy:	< 1% Full Scale Range*
Approval:	CE Certified
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
Pressure:	0.1 - 50 PSIG
Sensor Type:	Precision Fuel Cell
Warranty:	12 Months Sensor
Warranty:	12 Months Electronics

"Inquiry for Application Expertise"

Oxygen Transmitter:

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

The transmitter comes in 3 different packages for maximum installation considerations. These include 2-wire, 6-wire and an intrinsically safe option with Zener Barriers.

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

The display of the transmitter 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 1/8" compression tube fittings.

Oxygen Sensor Technology:

The oxygen sensor used in the OMD-150 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

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.

Power Requirements:

Input Power: 12 - 24 V DC
Current Draw: 25 mA

Order Information:

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

Model Number:

OMD-150 Oxygen Transmitter

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% |

Electronics Package:

- | | |
|---|--|
| 2 | 2-Wire Loop Powered 4 to 20mA Transmitter, 12 - 24VDC Input (Non-Backlit) |
| 6 | 6-Wire Transmitter, 12 - 24VDC Input, 4 - 20mA and 0 - 10VDC Output (MODBUS Pending) |
| Z | Intrinsically Safe 2-Wire with Zener Barrier [MTL-7706] |

Gas Connections:

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

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