

Configurable Online Wall Mount IP66 / NEMA4X Oxygen Analyzer



Applications:

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

“Inquiry for Application Expertise”

Trace, Percent or Purity 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

Intrinsically Safe Configuration

Optional Electronic Configurations:

- 2-wire loop powered 4 - 20mA Analyzer
- 3-wire Analyzer with Isolated 4-20mA Output
- 6-wire Analyzer , 4 - 20mA and 0 - 10VDC Output
- “Smart” Analyzer with Bi-Directional RS485 MODBUS
- Intrinsically Safe

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%
Output:	4 - 20mA or 1 - 5 VDC
Power:	12 - 24 VDC
Dimensions:	9.5" x 6.5" x 3.8"
Enclosure:	NEMA 4X / IP66
Weight:	4.0 lbs
Pressure:	0.1- 50 PSIG
Flow Rate:	0.5 - 5.0 SCFH
Temperature:	0 to 50° C
Temperature Compensation:	Integral
Sensor:	Configurable
Gas Connections:	Configurable
Sensory Warranty:	12 Months
Electronics Warranty:	12 Months

*Accuracy at constant conditions

OMD-150 Oxygen Analyzer

Product Specifications

Oxygen Analyzer:

The model OMD-150 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 analyzer comes in 4 different packages for maximum installation considerations. These include 2-wire Loop, 3-wire with an isolated 4-20 mA output, 6-wire with RS485 Bi-Directional Modbus ASCII, and an intrinsically safe option.

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).

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 SS02 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
PO2-1120 Purity Oxygen Sensor: Purity Analysis
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 calibra-

Order Information:

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

Model Number:

Model Number:
OMD-150 Oxygen Analyzer

Selected Range & Sensor:

- | | | |
|---|--------------------------------------|---|
| 1 | Trace Analysis Standard (TO2-1x): | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000ppm, 0 - 25% |
| 2 | Trace Analysis Acidic (TO2-2x): | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000ppm, 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% |
| 8 | Purity Analysis (PO2-1120): | 0 - 100% |
| 9 | Hybrid Analysis (TO2-19): | 0 - 1000 ppm, 0 - 10000 ppm, 0 - 25% |

Electronics Package:

- | | |
|----|---|
| 2 | 2-Wire Loop Powered 4 to 20mA Transmitter, 12 - 24VDC Input (Non-Backlit) |
| 3 | 3-Wire Loop Powered, Isolated 4-20 mA Transmitter, 12-24VDC Input |
| M | 6-Wire Analyzer, 12 - 24VDC, 4 - 20mA, 0 - 10VDC + Bidirectional MODBUS RS485 ASCII |
| IS | 12 - 24V DC Input Power Intrinsically Safe, 4 - 20 mA; Bidirectional MODBUS RS485 ASCII |

Gas Connections:

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

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

**** For assistance when ordering, contact our inside sales specialist ****

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Designed, Tested, and Assembled in California, USA

4405 E. Airport Dr. #100 Ontario, CA 91761 USA : 1-949-398-2879 : sales@sso2.com : www.sso2.com

OMD-150 / OMD-525X Sample Systems

SS-1200, Sample System with Backpanel

High Pressure and High Flow

Pressure Regulator Handles Up to 600 PSIG

Bypass / 4-Way Valve

Pressure Gauge

Flow Meter

Specifications

Dimensions:

Material: 304 Stainless Steel

Weight: 13.0 lbs

Optional Gas Connections:

1/4" Compression Tube Fittings

1/8" Compression Tube Fittings

6mm Compression Tube Fittings



SS-1400, Sample System with Backpanel

Low Pressure and Low Flow

Integral Sampling Pump

0.1 u Coalescing Filter

Specifications

Dimensions:

Material: 304 Stainless Steel

Weight:

Optional Gas Connections:

1/4" Compression Tube Fittings

1/8" Compression Tube Fittings

6mm Compression Tube Fittings



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