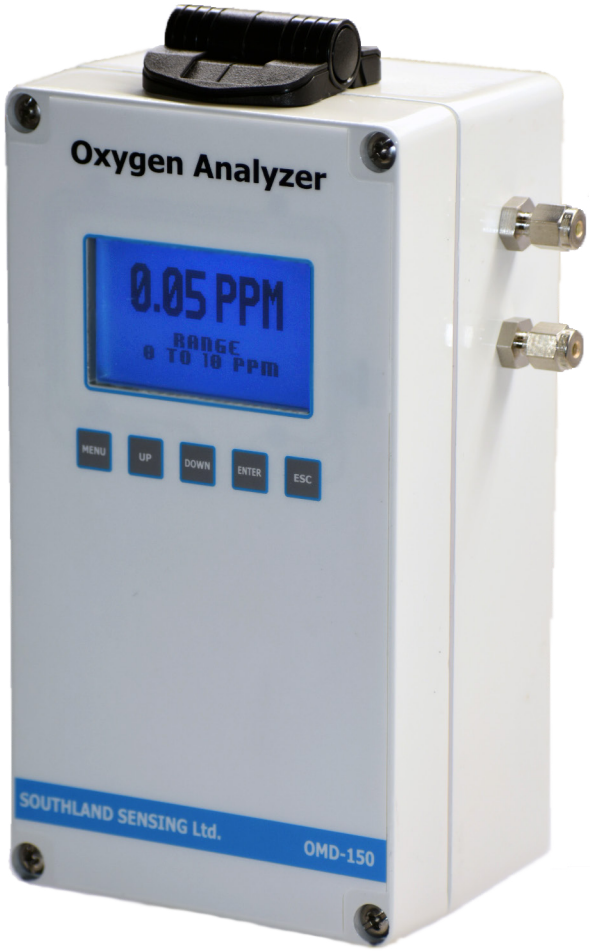
OMD-150 Oxygen Transmitter



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

CE

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:	1/8" Swagelok Tube Fittings
Flow Sensitivity:	0.5 - 5.0 SCFH
Pressure:	5 - 30 PSIG
Sensor Type:	Precision Fuel Cell
Warranty:	12 Months Sensor
Warranty:	12 Months Electronics

"Inquiry for Application Expertise"

SOUTHLAND Sensing Ltd

Phone: 1-949-398-2879; Fax: 1-949-315-3622
E-mail: sales@sso2.com; Web: www.sso2.com
4045 E. Guasti Rd. #203 Ontario, CA 91761 USA

OMD-150 Oxygen Transmitter Product Specifications

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 with RS485 Bi-Directional Modbus 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 Swagelok 1/8" tube fittings.

Power Requirements:

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

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.

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" Swagelok Tube Fittings

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

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