

## OMD-150 Oxygen Analyzer

Product Specification Sheet

### 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 transmitter /non backlit display  
6-wire Analyzer , 4 - 20mA and 0 - 10VDC Output  
Intrinsically Safe for Class 1, Div. 2 Groups B, C, D  
"Smart" xmitter with Bi-Directional RS485 MODBUS  
Integral Alarms with AC or DC Input Power

#### Applications:

- Welding & 3D Printers
- N<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub> Inert Gas Generators
- Laboratories & Universities
- Steel & Other Metal 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"

# 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 a variety of different packages for maximum installation considerations. These include 2-wire, 6-wire, alarms, 12 - 24VDC or 100 - 240VAC, 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).

## Optional Alarms:

2-non latching fully configurable Form C relay contact alarms.

## 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 H<sub>2</sub>, He or Hydrocarbons. The acidic cells work well when acid gases such as CO<sub>2</sub> 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:**

**Model Number:**  
OMD-150 Oxygen Analyzer

**Selected Range & Sensor:**

- Selected Range & Sensor:
- |   |                                      |   |
|---|--------------------------------------|---|
| 1 | Trace Analysis Standard (T02-1x):    | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 1%, 0 - 25% |
| 2 | Trace Analysis Acidic (T02-2x):      | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 1%, 0 - 25% |
| 3 | Percent Analysis Standard (P02-160): | 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100%          |
| 6 | Percent Analysis Acidic (P02-24):    | 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 Analyzer, 12 - 24VDC Input, 4 - 20mA and 0 - 10VDC Outputs.                  |
| M    | 6-Wire Analyzer, 12 - 24VDC, 4 - 20mA, 0 - 10VDC + Bidirectional MODBUS RS485 ASCII |
| IS   | 12 - 24 VDC Analyzer, 4 - 20mA Analog Output, Class 1, Division 2 Groups B, C, D    |
| A-DC | 12 - 24VDC Analyzer, With Integral Alarms with 4 -20mA and 0 - 10VDC Outputs        |
| A-AC | 100 - 240VAC Analyzer, With Integral Alarms with 4 -20mA and 0 - 10VDC Outputs      |

### Gas Connections:

- 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

**DASTEC S.R.L.**

### Representantes / Distribuidores Autorizados

 **Argentina**

Tel: (+54 11) 5352 2500

Email: [info@dastecsrl.com.ar](mailto:info@dastecsrl.com.ar)

Web: [www.dastecsrl.com.ar](http://www.dastecsrl.com.ar)

 **Uruguay** [www.dastecsrl.com.uy](http://www.dastecsrl.com.uy)

 Paraguay [www.dastecsrl.com.py](http://www.dastecsrl.com.py)