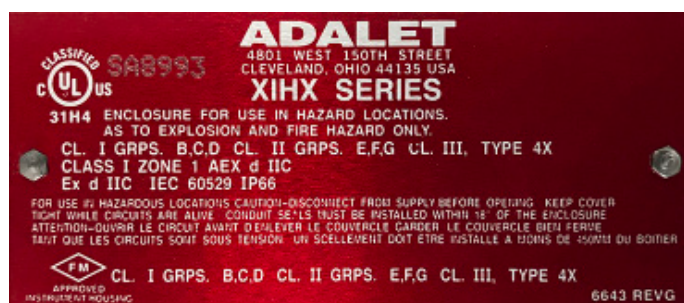


# OMD-625 Oxygen Analyzer

## Hazardous Area Online Process Oxygen Analyzer w/Sample System



- Designed for the Natural Gas Industry
- Class 1, Div 1 Groups B, C, D
- Custom Full Scale Range (i.e. 0 - 99 ppm)
- Precision Fuel Cell Oxygen Sensor Technology
- Large Backlight Display
- Ability to Calibrate Analog Output
- Measure Oxygen from 0.01ppm to 25%
- Intuitive User Friendly Interface
- Cost Effective and Low Maintenance
- 2 Configurable Alarm Relay Contacts
- Output Sim (4mA, 8mA, 12mA, 16mA and 20mA)



### Specifications:

Accuracy:	< +/-1% Full Scale Range*
Alarms:	2 Configurable Relay Contacts
Analyzer Range:	0 - 10/100/1000/10000ppm/25%
Optional Range 1:	0 - 1%,/5%/10%/25%/100%
Area Classification:	Class 1, Div 1, Groups B,C,D
Dimensions:	15.25" x 12.5" x 5.25"
Flow:	0.25 - 5.0 SCFH
Gas Connections:	1/4" Compression Tube
Output:	Isolated 4 - 20mA or 1 - 5 VDC
Power:	12 - 24 VDC
Pressure	0.1 - 50 PSIG Inlet, vent to atm
Response Time:	T90 in 10 Seconds
Sensor:	Precision Fuel Cell
Temperature:	-10 to 50 deg C
Warranty Sensor:	12 Months
Warranty Electronics:	12 Months
Weight:	18.5 lbs

\*Accuracy at constant conditions

### Optional Configurations:

- Sample System Add-On Components
- Bi-Directional RS485 Modbus RTU
- Extreme Weather Packaging w/ Heater

### Applications:

- Natural Gas Extraction & Pipelines
- Natural Gas Processing
- Acid (CO2) Gas Streams
- Inert, Hydrocarbon, Hydrogen Processing
- And Many Other Industrial Applications

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## Oxygen Analyzer:

The model OMD-625 oxygen analyzer combines a rugged design with SSO2's precision oxygen sensors. The result is a highly reliable and cost effective compact design with easy-to-use user interface designed specifically for the natural gas industry.

The oxygen analyzer is designed to meet standards for Class 1, Div 1, Groups B, C, D installation.

The oxygen analyzer is isolated both on the power input and analog output. This eliminates most electronic gremlins seen with existing competitive equipment in the field.

Standard ranges include 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000ppm, 0 - 25%.

Optional Percent Analysis Ranges: 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100%.

Custom Range: The unit comes with the ability to customize a 6th range (i.e. 0 - 94 ppm).

## Standard Power Requirements:

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

\*\* Optional power input choices available

## Oxygen Sensor Technology:

The oxygen sensor used in the OMD-625 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:

- TO2-133 PPM Oxygen Sensor: Trace Analysis, Standard
- TO2-233 PPM Oxygen Sensor: Trace Analysis, Acidic
- TO2-238 PPM Oxygen Sensor: Trace Analysis, < 500PPM H<sub>2</sub>S
- 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-625 Oxygen Analyzer

OMD-625D Oxygen Analyzer (Delete Sample System, 1/8" Compression Tube Gas Inlets)

### Selected Range & Sensor:

- |    |  |   |
|----|--|---|
| 3T | Trace Analysis Standard (TO2-133):                   | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000 PPM 0 - 25% |
| 4T | Trace Analysis Standard (TO2-233):                   | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000 PPM 0 - 25% |
| 5T | Trace Analysis < 500 PPM H <sub>2</sub> S (TO2-238): | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000 PPM 0 - 25% |
| 5P | Percent Analysis Standard (PO2-160):                 | 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100%                |
| 6P | Percent Analysis Standard (PO2-24):                  | 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100%                |

### Electronics Package:

- 2 12 - 24V DC 2-wire Loop (delete backlight, delete alarm relay contacts)
- 4 12 - 24V DC 4-wire Input Power
- 7 100 - 240V AC Input Power
- M 12 - 24V DC Input Power w/ Bi-Directional MODBUS RS485 RTU

### Gas Connections:

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

OMD-625 - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Use This Part Number When Ordering