

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 - 99.5 ppm)

Precision Fuel Cell Oxygen Sensor Technology

Large Backlight Display

Ability to Calibrate Analog Output

Measure Oxygen from 0.01 ppm to 25%

Intuitive User Friendly Interface

Cost Effective and Low Maintenance

2 Configurable Alarm Relay Contacts

Output Sim (4mA, 8mA, 12mA, 16mA and 20mA)



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

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
Sensor Enclosure Certification:	ATEX Ex d IIC
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

"Inquiry for Application Expertise"

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 - 94.0 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 H₂, He or Hydrocarbons. The acidic cells work well when acid gases such as CO₂ or natural gas are present. H₂S resistant sensors are available for sour gas streams with <500 PPM H₂S.

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 H₂S
- PO2-160 Percent Oxygen Sensor: Percent Analysis, Standard
- PO2-24 Percent Oxygen Sensor: Percent Analysis, Acidic
- PO2-238 Percent Oxygen Sensor: Percent Analysis, <500 PPM H₂S

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 H₂S (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%
- 7P Percent Analysis <500 PPM H₂S (PO2-238): 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