

Online Oxygen Analyzer, 1/4 DIN Package, Remote Sensor Housing



Precision Electrochemical Sensor Technology

Intuitive User-Friendly Interface

Trace, Percent, or Purity Analysis Ranges

Auto-Ranging or Manual Range Mode

Two Adjustable Alarm Contacts w/ delay mode

1/4 DIN Panel Mount Compact Design

Measure Oxygen from 0.01ppm to 100%



H6 KF-40
Sensor Housing



H3 Flow Through
Sensor Housing



Oxygen Sensor

Specifications:

Accuracy:	+/- 1% Full Scale Range*
Display:	LCD with Backlight
Dimensions:	1/4 DIN (96 x 96 x 65mm)
Enclosure:	Anodized Aluminum
Classification:	General Purpose
Temperature Rating:	0 - 50 deg C
Temperature Compensation:	Integral
Alarms:	2 Adjustable w/ delay mode
Power:	10 - 28 VDC or 100 - 240 VAC
Output (Analog):	4 - 20mA
Communication:	Bi-Directional MODBUS RS485 ASCII
Range ID:	1 - 5 VDC (Optional 4 - 20mA)
Response time:	T90 in 7 Seconds
Sensor:	Configurable
Sensor Type:	Precision Electrochemical
Calibration:	Periodically
Temperature Compensation:	Integral
Flow Sensitivity:	0.5 - 5 SCFH
Pressure:	0.1 - 50 PSIG
Warranty:	12 Months Sensor 12 Months Electronics

*Accuracy at constant conditions

Applications:

- Inert Glove Box Systems
- Nitrogen and O2 PSA Generators
- Laboratories & Universities
- Medical Grade Oxygen Concentrators
- Air Separation Plants
& Many Others

ETA Process Instrumentation

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Martech Controls

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Oxygen Analyzer:

The model OMD-501X 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 easy-to-use user interface.

Trace ranges include 0 - 10 ppm, 0 - 100 ppm, 0 - 1000ppm, 0-10000ppm and 0-25%. Percent ranges include 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, and 0 - 100%. The analyzer can be configured for trace (parts-per-million), percent, and purity applications by the user by selecting which sensor is in use in the built-in menu.

The analog output can be manual range selected through the on board menu or the user can take advantage of the auto-range feature using the RANGE ID output allowing easy interface with a PLC, DCS or other control system.

Gas connections are made with compression tube fittings or a direct fit KF-40 Housing.

Power Requirements:

Input Power:	10 - 28 V DC
Input Power:	100 - 240 V AC
Current Draw:	50 mA

Oxygen Sensor Technology:

The oxygen sensors used in the OMD-501X are 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
 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 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-501X Oxygen Analyzer

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%
8	Purity Analysis (PO2-1120):	0 - 100%
9	Hybrid Analysis (TO2-19):	0 - 1000 ppm, 0 - 10000 ppm, 0 - 25%

Power Option:

A	100 - 240 V AC Analyzer + Bidirectional MODBUS RS485 ASCII
D	10 - 28 V DC Analyzer + Bidirectional MODBUS RS485 ASCII

Gas Connections:

8	1/8" Compression Tube Fittings Flow Through Sensor Housing
4	1/4" Compression Tube Fittings Flow Through Sensor Housing
6	6mm Compression Tube Fittings Flow Through Sensor Housing
KF	KF-40 (NW40F) Fitting (Inert Glovebox Applications)

OMD-501X - _____ - _____ - _____ Use This Part Number When Ordering