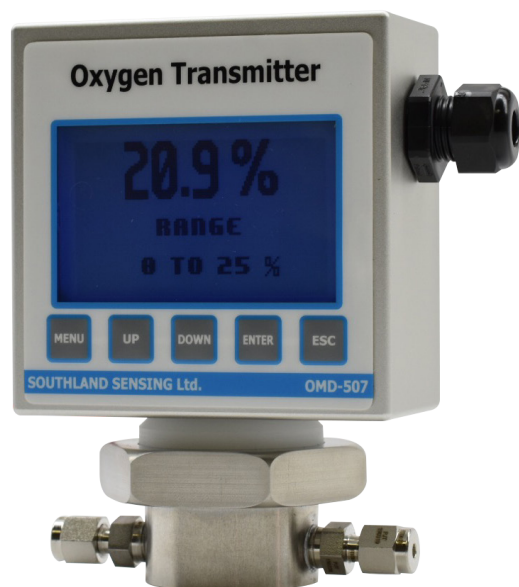


OMD-507 Oxygen Analyzer

Product Specification Sheet

Online PPM or Percent Oxygen Analyzer Fully Configurable



Inline Flow Through Configuration



KF-40 (NW40F) Direct Fit Configuration

Trace, Percent or Purity Configuration
Precision Fuel Cell Oxygen Sensor Technology
Measure Oxygen from 0.1ppm to 100%
Intuitive User Friendly Interface
Cost Effective and Low Maintenance

Applications:

- Inert Glove Box Systems & 3D Printers
- N₂, O₂, H₂ Inert Gas Generators
- Laboratories & Universities
- Steel & Other Metals Processing
- Reflow Soldering
- And Many Other Industrial Applications



Optional Electronic Configurations:

2-wire loop powered 4 - 20mA Transmitter
6-wire Transmitter, 4 - 20mA and 0 - 10VDC Output
Intrinsically Safe Option with Zener Barrier
"Smart" xmitter with Bi-Directional RS485 MODBUS

Specifications:

Accuracy:	< 1% Full Scale Range*
Approval:	CE Marked
Dimensions:	6.3" x 3.5" x 2.5"
Enclosure:	Aluminum Top & SS Housing
Temperature:	0 - 50 deg C
Temperature Compensation:	Integral
Flow Housing:	In-Line, Swagelok Fittings
Flow Sensitivity:	0.5 - 5.0 SCFH
Sensor Type:	Precision Fuel Cell
Warranty:	12 Months Sensor
Warranty:	12 Months Electronics
Weight:	1.7 lbs

*Accuracy at constant conditions

"Inquiry for Application Expertise"

Product Specifications

Oxygen Analyzer:

The model OMD-507 oxygen analyzer combines a rugged in-line design with SS02's precision oxygen sensors. The result is a highly reliable and cost effective compact design with easy-to-use user interface.

The analyzer comes in 4 different packages for maximum installation considerations. These include 2-wire, 6-wire, 6-wire with RS485 Bi-Directional Modbus ASCII and an intrinsically safe option with Zener Barriers.

The analyzer can be configured for 3 ranges, trace (parts-per-million), percent, and purity.

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 on board menu 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: 12 - 24 V DC
Current Draw: 25 mA

Oxygen Sensor Technology:

The oxygen sensor used in the OMD-507 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 SS02 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

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-507 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%
3	Percent Analysis Standard (PO2-160):	0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100%
4	Percent Analysis Acidic (PO2-24):	0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100%
5	Purity Analysis (PO2-1120):	0 - 100%

Electronics Package:

2 2-Wire Loop Powered 4 to 20mA Transmitter, 12 - 24VDC Input
6 6-Wire Analyzer, 12 - 24VDC Input, 4 - 20mA and 0 - 10VDC Output
M 6-Wire Analyzer, 12 - 24VDC Input, 4 - 20mA and 0 - 10VDC Output, MODBUS RS485 ASCII
2 Intrinsically Safe 2-Wire with Zener Barrier [MTL-7706]

Gas Connections:

8 1/8" Compression Tube Fittings
4 1/4" Compression Tube Fittings
6 6mm Compression Tube Fittings
KF (NW40F) Fitting

OMD-507 - - - - Use This Part Number When Ordering

DASTEC S.p.A.

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