

SENSORI DI OSSIGENO

ANALISI IN LINEA



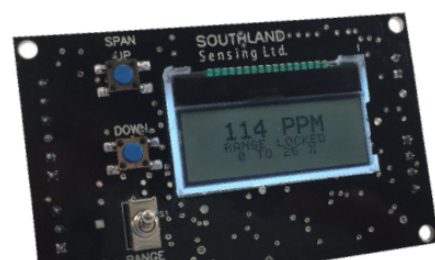
PORTATILI



A PANNELLO



AMBIENTALI



4045 E. Guasti Rd. #203 Ontario, CA 91761 USA : 1-949-398-2879 : sales@sso2.com : www.sso2.com

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, 3-wire with isolated 4-20 mA output, 6-wire, 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).

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 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
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-150 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% |
| 7 | Hybrid Analysis Standard (TO2-19): | 0 - 1000 ppm, 0 - 10000 ppm, 0 - 25% |

Electronics Package:

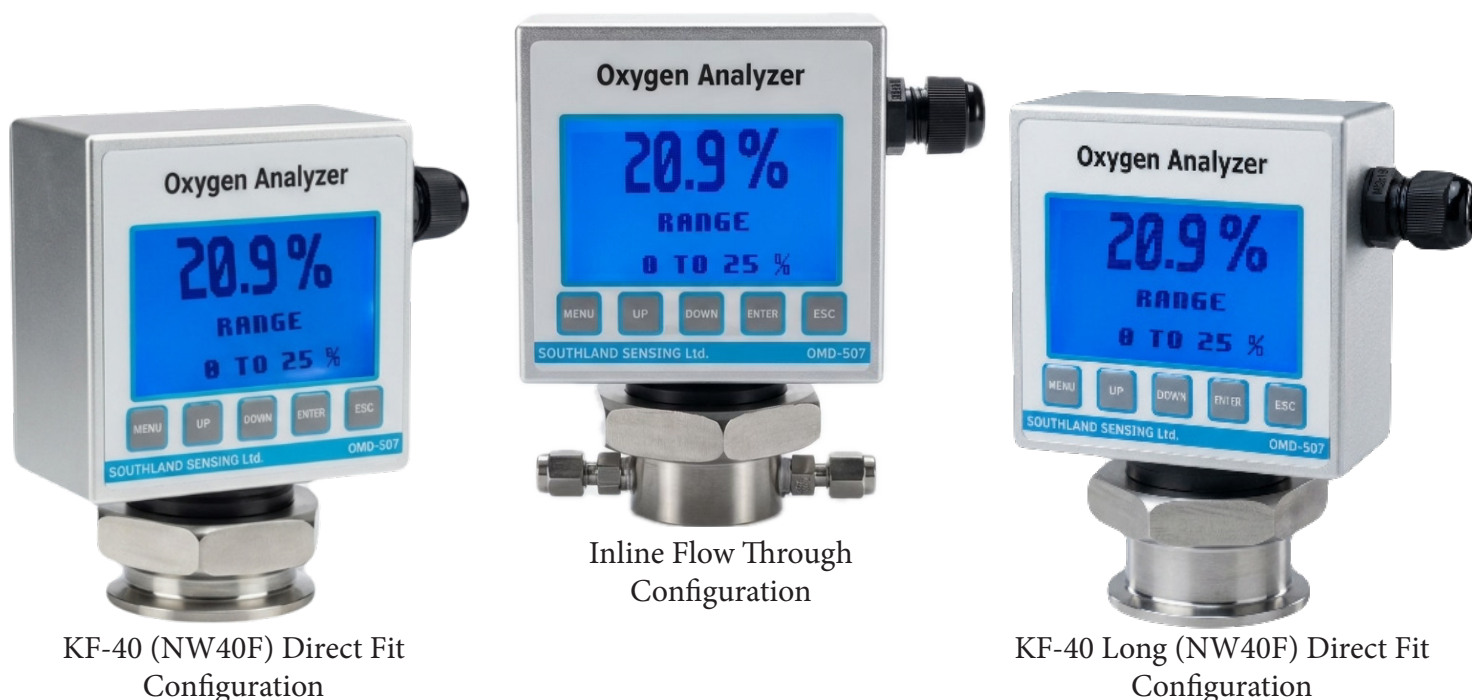
- | | |
|----|---|
| 2 | 2-Wire Loop Powered 4 to 20mA Transmitter, 12 - 24VDC Input (Non-Backlit) |
| 3 | 3-Wire Loop Powered, Isolated 4-20 mA Transmitter, 12-24VDC Input |
| 6 | 6-Wire Analyzer, 12 - 24VDC Input, 4 - 20mA and 0 - 10VDC Outputs. |
| M | 6-Wire Analyzer, 12 - 24VDC, 4 - 20mA, 0 - 10VDC + Bidirectional MODBUS RS485 ASCII |
| IS | 12 - 24 VDC Analyzer, 4 - 20mA Analog Output, Class 1, Division 2 Groups B, C, D |

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

Online PPM or Percent Oxygen Analyzer Fully Configurable



Precision Fuel Cell Oxygen Sensor Technology

Measure Oxygen from 0.1ppm to 100%

Intuitive User Friendly Interface

Cost Effective and Low Maintenance

Optional Electronic Configurations:

2-wire loop powered 4 - 20mA Analyzer

3-wire Analyzer, isolated 4-20mA

6-wire Analyzer, 4 - 20mA and 0 - 10VDC Output

Intrinsically Safe Option

"Smart" Analyzer with Bi-Directional RS485 MODBUS

Applications:

- Inert Glove Box Systems & 3D Printers
- Laboratories & Universities
- Reflow Soldering
- And Many Other Industrial Applications

"Inquiry for Application Expertise"



Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Calibration:	Periodically
Analyzer Range:	0-10/100/1000/10000ppm/25% 0 - 1/5/10/25/100%
Dimensions:	6.3 x 3.5 x 2.5 inch
Enclosure:	Anodized Aluminum
Weight:	1.75 lbs
Pressure:	0.1 - 50 PSIG
Flow Rate:	0.5 - 5 SCFH (Flow Through) ** No Flow Required for KF-40
Temperature:	0 to 50° C
Temperature Compensation:	Integral
Sensor:	Configurable
Sensor Housing:	Configurable
Gas Connections:	Configurable
Sensor Warranty:	12 months
Analyzer Warranty:	12 months

*Accuracy at constant conditions

Optional Accessories

PWR

Pre-installed Power Supply Wall Charger

Oxygen Analyzer:

The model OMD-507 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.

The analyzer comes in 4 different packages for maximum installation considerations. These include 2-wire Loop, 3-wire with an isolated 4-20 mA output, 6-wire with RS485 Bi-Directional Modbus ASCII, and an intrinsically safe option.

The analyzer can be configured for 2 ranges, trace (parts-per-million) or percent.

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 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
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-507 Oxygen Analyzer

Selected Range & Sensor:

- | | | |
|---|--------------------------------------|---|
| 1 | Trace Analysis Standard (TO2-1x): | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000ppm, 0 - 25% |
| 2 | Trace Analysis Acidic (TO2-2x): | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000ppm, 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% |
| 9 | Hybrid Analysis (TO2-19): | 0 - 1000 ppm, 0 - 10000 ppm, 0 - 25% |

Electronics Package:

- | | |
|----|--|
| 2 | 2-Wire Loop Powered 4 to 20mA Analyzer, 12 - 24VDC Input |
| 3 | 3-Wire, Isolated 4-20 mA Analyzer, 12-24VDC Input |
| 6 | 6-Wire Analyzer, 12 - 24VDC Input, 4 - 20mA and 0 - 10VDC Output, MODBUS RS485 ASCII |
| IS | Intrinsically Safe, 12 - 24VDC Input, 4 - 20 mA and 0 - 10 VDC Outputs |

Gas Connections:

- | | |
|-----|--------------------------------|
| 4 | 1/4" Compression Tube Fittings |
| 6 | 6mm Compression Tube Fittings |
| 8 | 1/8" Compression Tube Fittings |
| KF | (NW40F) Fitting |
| KFL | "Long" KF-40 Sensor Housing |

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

** For assistance when ordering, contact our inside sales specialist **

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OMD-525X Oxygen Analyzer

Product Specification Sheet

Online Trace Oxygen Analyzer, IP66 / NEMA 4X Wall Mount Enclosure



Trace, Percent, or Purity 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 Indoor or Outdoor Enclosure

Cost Effective and Low Maintenance

Integral USB Data Logging

Specifications:

Accuracy:	+/- 1% Full Scale Range*
Display:	LCD with Backlight
Dimensions:	9.5 x 6.5 x 3.8 Inches
Enclosure:	Wall Mount IP66 / NEMA4X
Classification:	General Purpose
Temperature:	0 - 50°C
Alarms:	2 Adjustable w/ delay mode
Power:	100 - 240 VAC or 10 - 28 VDC
Data Logging:	Removable USB Stick
Signal Output (analog):	4 - 20mA
Communication	Bi-Directional MODBUS RS485 ASCII
Range ID:	1 - 5 VDC (Optional 4 -20mA)
Calibration:	Periodically
Pressure:	0.1 - 50 PSIG
Temperature Compensation:	Integral
Flow Sensitivity:	0.5 - 5 SCFH
Warranty:	12 Months Sensor 12 Months Electronics

*Accuracy at constant conditions

Applications:

- Nitrogen and O2 PSA Generators
- Laboratories & Universities
- Beverage Grade CO2 Monitoring
- Welding & 3D Printers
- Air Separation Plants
- & Many Others

"Inquiry for Application Expertise"

The OMD-525X offers the unique ability to log data in real time via a removable USB drive. Data is logged in an Excel compatible .csv file by date with an interval between 1 and 120 minutes.

Logging at intervals of 1 minute you can store up to approximately 50 years worth of data before filling up an 8GB USB flash drive.

The analyzer can be configured for trace (parts-per-million), percent, or purity applications by the user by selecting the desired ranges in the built-in menu and using the appropriate sensor.

Oxygen Analyzer:

The model OMD-525X 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 can be configured for either 10-28 VDC or 100-240 VAC power to fit a variety of applications. It can also be configured for trace, (parts-per-million) percent, or purity analysis using the on-board menu and correct sensor.

The auto-range feature allows the user to read O2 throughout all relevant ranges on the local display in large font.

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 (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-525X 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 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: Percent Analysis, Standard
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-525X Oxygen Analyzer

Selected Range & Sensor:

- | | | |
|---|--------------------------------------|---|
| 1 | Trace Analysis Standard (TO2-1x): | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000ppm, 0 - 25% |
| 2 | Trace Analysis Acidic (TO2-2x): | 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000ppm, 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% |
| 7 | Purity Analysis Standard (PO2-1120): | 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100% |

Power Option:

- | | |
|---|--|
| A | 100 - 240 VAC Analyzer, 4-20 mA Analog Output, Integral Alarms, MODBUS RS485 ASCII |
| D | 10 - 28 VDC Analyzer, 4-20 mA Analog Output, Integral Alarms, MODBUS RS485 ASCII |

Gas Connections:

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

OMD-525X - _____ - _____ - _____ Use This Part Number When Ordering

Hazardous Area Online Process Oxygen Analyzer w/Sample System ATEX and IECEx Certified for Hazardous Areas



Optional Configurations:

- Sample System Add-On Components
- Bi-Directional RS485 Modbus RTU
- Extreme Weather Packaging
- Extended Temperature Ranges

Applications:

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

Precision Fuel Cell Oxygen Sensor Technology

Zone 1 IIB + H₂ Applications

Custom Full Scale Range (i.e. 0 - 99.5 ppm)

Optional MODBUS RS485 RTU

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:	Zone 1 IIB + H ₂
Dimensions:	12" x 12" x 5.25"
Flow:	0.5 - 5.0 SCFH
Gas Connections:	1/4" Compression Tube
Output:	Isolated 4 - 20mA or 1 - 5 VDC
Power:	12 - 24 VDC 100 - 240 VAC
Pressure	0.1 - 50 PSIG Inlet, vent to atm
Response Time:	T90 in 10 Seconds
Sensor:	Precision Fuel Cell
Temperature:	0 to 50 deg C**
Warranty Sensor:	12 Months
Warranty Electronics:	12 Months
Weight:	21 lbs

* Accuracy at constant conditions

** Consult Factory For Expanded Temp Range

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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 certified for use in Zone 1 IIB + H2 applications.

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

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%

Electronics Package:

4	12 - 24V DC 4-wire Power
4M	12 - 24V DC Power w/ Bi-Directional MODBUS RS485 RTU
7	100 - 240V AC Power
7M	100 - 240V AC 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

ATEX:

Southland Sensing Ltd.
4045 E. Guasti Rd. Suite 203, Ontario, CA 91761 USA
OMD-625 Series Oxygen Analyzer

ExVeritas 23ATEX1653X

 II 2 G

Ex db ib IIB+H2 T4 Gb

Tamb -20°C to +50°C



IECEx:

Southland Sensing Ltd.
4045 E. Guasti Rd. Suite 203, Ontario, CA 91761 USA
OMD-625 Series Oxygen Analyzer

IECEx EXV 23.0038X

 II 2 G

Ex db ib IIB+H2 T4 Gb

Tamb -20°C to +50°C



Portable Percent Oxygen Analyzer with High & Low Alarms



0 to 100% Oxygen Analysis Range

Large Backlit Display w/ User Friendly Menu

High and Low Audible Alarms 1% to 100%

Battery Life Indicator on Display

Electrochemical Sensor Technology

Low Sensor Warning Indicator

The OMD-21 was designed with the customer in mind, to provide an easy and convenient way to accurately verify percent level oxygen analysis. This low-maintenance inexpensive oxygen analyzer is an ideal solution to spot check oxygen levels in industrial, welding and diving applications.

Integral High and Low Audible Alarms are fully configurable by the end user and can be silenced if desired.

The coiled cable stretches 12 ft when fully extended.

Inlet pressure is designed for 5 - 30 PSIG (0.34-2 barg) with an atmospheric vent.

Specifications:

Accuracy:	<1% of Full Scale Range
Alarms:	Configurable High & Low
Analysis Range:	0 - 100 Percent
Calibration:	Periodically
Cable Length:	12 ft when Fully Extended
Classification:	General Purpose
Dimensions:	4.83 x 3.25 x 1.50 Inches
Display:	Integrated w/ Backlight
Enclosure:	Molded ABS
Flow Rate:	0.4 - 20.0 SCFH
Linearity:	<1% of Full Scale Range
Gas Connections:	M16 x 1.0 mm Threads
Operating Temperature:	0 - 50 deg C
Power:	(3) AAA Batteries
Battery Life:	1000 Hours (Estimated)
Response Time:	T90 in 12 Seconds
Sensor:	OSS-3
Sensor Life:	60 Months (in ambient air)
Sensitivity:	0.1%
Temperature Compensation:	Integral
Warranty (Analyzer):	12 Months
Warranty (Sensor):	12 Months
Weight:	275g (9.7oz)

Applications

- Industrial Percent Oxygen Spot Checking
- Welding Purge Gas Quality
- 3D Purge Gas Quality Checking
- Safety Check of Breathing Air in Dive Tanks
- Personal Safety Protection

Included Accessories

- OSS-3 O2 Sensor
- TEE-19 15mm Tee Adapter
- FLOW-19 Flow Diverter

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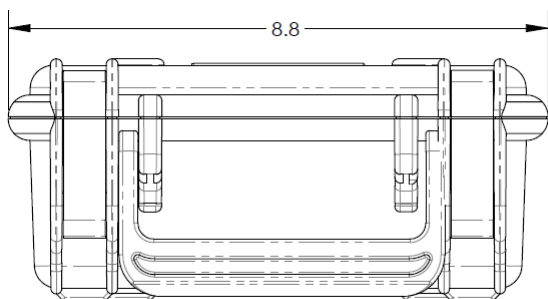
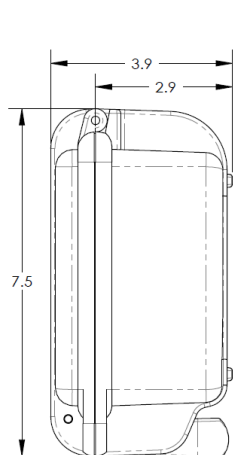
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OMD-480 Oxygen Analyzer

Product Specification Sheet

Portable Percent Oxygen Analyzer with USB Data Logging



Optional Accessories:

- Optional Ranges: Fully Configured From Factory
- PO2-24 Oxygen Sensor with > 0.5% CO2 Present
- Integral Sampling Pump (OMD-480P)

0 - 1% Low Range; 0 - 100% High Range

Large Backlit Display w/ User Friendly Menu

Data Log via Removable USB Flash Drive

1/8" Tube Fitting Gas Connection

Continuous Analysis during Charging

Electrochemical Sensor Technology

Specifications:

Accuracy:	< 1% of Full Scale Range*
Calibration:	Periodically
Analyzer Range:	0-1%/5%/10%/25%/100%
Output:	0 - 1V DC
Data Logging:	Removable USB Flash Drive
Battery Indicator:	Integrated into Display
Power:	Rechargeable Battery 100 - 240 VAC AC Adapter
Classification:	IP66 / NEMA4X
Display:	Integrated w/ Backlight
Dimensions:	8.80 x 7.50 x 3.90 inch
Enclosure:	Rugged Polypropylene
Weight:	4.8 lbs
Flow Rate:	0.5 - 5 SCFH
Pressure:	0.1 - 50 PSIG
Temperature:	0 to 50° C
Temperature Compensation:	Integral
Gas Connections:	1/8" Tube Fittings
Sensor Warranty:	12 months
Analyzer Warranty:	12 months

*Accuracy at constant conditions

Applications:

- Glove box or Pipeline Leak Detection
- Air Separation & Liquification
- Headspace Gas Analysis
- Beverage Grade CO2 Monitoring
- Heat Treating & Bright Annealing
- Inert Gas Welding of Exotic Materials



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Published: 3/20/2026

Portable PPM Oxygen Analyzer with USB Data Logging



Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Analysis Range:	0-10/100/1000/10000ppm/25%
Battery Indicator:	Integrated into Large Display
Calibration:	Periodically
Data Logging:	Removable USB Flash Drive
Dimensions:	12.0 x 6.0 x 5.0 inch
Display:	Large with Backlight
Enclosure:	Anodized Aluminum
Flow Sensitivity:	0.5 - 5 SCFH
Gas Connections:	Quick Disconnect
Output (Analog):	0 - 1V DC
Power:	Rechargeable Battery 100 - 240 VAC AC Adapter
Pressure:	Inlet, 0.1 - 50 PSIG
Response Time:	T90 in 7 Seconds
Sensor:	TO2-133-T Trace O2 Sensor
Sensor Life:	20 - 25 months
Temperature:	0 - 50 deg C
Temperature Compensation:	Integral
Warranty:	12 months
Weight:	5.75 lbs

*Accuracy at constant conditions

0 - 10 PPM Low Range; 0 - 25% High Range

Large Backlit Display w/ User Friendly Menu

Data Log via Removable USB Flash Drive

Quick Disconnect Isolation Gas Fittings

Continuous Analysis During Charging

Electrochemical Sensor Technology

The OMD-560 oxygen analyzer combines a rugged portable design with SSO2's precision oxygen sensors. The result is a highly reliable and cost effective design with easy-to-use user interface.

The analyzer comes with a 0 - 10 PPM full scale low range. A removable USB flash drive for data logging via .CSV (Excel) file format. With an 8GB USB Flash Drive, you can data log at 1 minute intervals for about 50 years before running out of storage. The low full scale range and flexibility to easily access data allows this analyzer to be unmatched in the market.

The display of the analyzer is designed to be used in direct sunlight. No need to bring a shade or other method to see the screen.

The oxygen sensor used in the OMD-560 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 cell (TO2-133-T) is unaffected by other background gases such as H₂, He or Hydrocarbons. The acidic cell (TO2-233-T) works 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.

Applications

Pipeline leak detection

Spot Checking Air Separation & Liquification

Headspace Gas Analysis

Beverage Grade CO₂ Monitoring

Heat Treating & Bright Annealing

Inert Gas Welding of Exotic Materials

Optional Accessories

ENC-560 Carrying case with foam insert

TO2-233-T Oxygen Sensor (> 0.5% CO₂ present)

Product Specifications

OMD-580

Portable Trace Oxygen Analyzer



Precision Electrochemical Sensor Technology
 Large Color Display w/ User Friendly Menu
 5 Standard Analysis Ranges
 Auto-Ranging or Manual Range Mode
 Continuous Analysis During Battery Charging
 Data logging via Removable USB Flash Drive

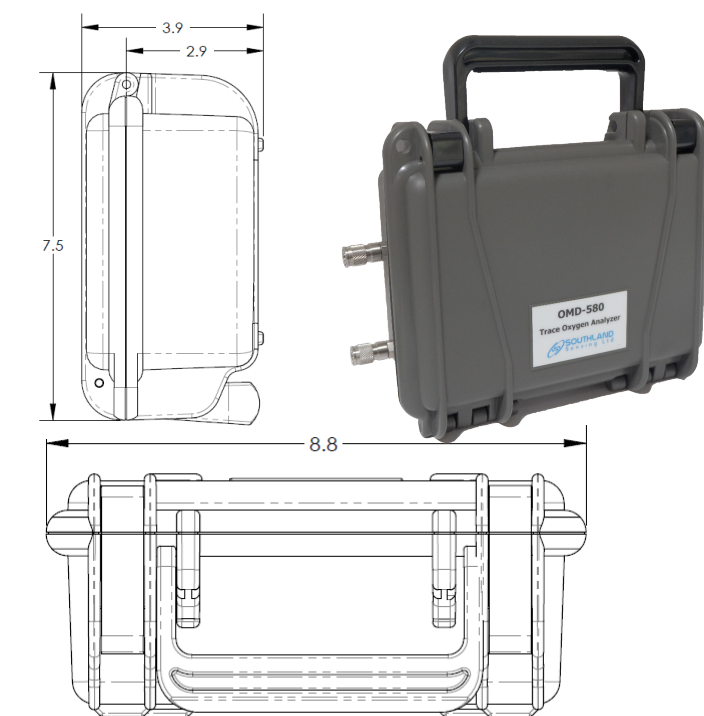
Specifications:

Accuracy:	< 1% of Full Scale Range*
Analysis Range:	0-10/100/1000ppm/1%/25%
Battery Indicator:	Integrated into Color Display
Calibration:	Periodically
Classification:	IP67 / NEMA4X
Data Logging:	Removable USB Flash Drive
Dimensions:	8.80 x 7.50 x 3.90 inch
Display:	Full Color with Backlight
Enclosure:	Rugged Polypropylene
Flow Sensitivity:	0.5 - 5 SCFH
Gas Connections:	1/8" Tube Quick Disconnect
Output (Analog):	0 - 1V DC
Power:	Rechargeable Battery 100 - 240 VAC AC Adapter
Pressure:	Inlet, 0 - 50 PSIG
Response Time:	T90 in 10 Seconds
Sensor:	TO2-1x Trace O2 Sensor
Sensor Life:	20 - 25 months
Temperature:	0 - 50 deg C
Temperature Compensation:	Integral
Warranty:	12 months
Weight:	4.8 lbs

Applications:

- Glove box or Pipeline Leak Detection
- Air Separation & Liquification
- Headspace Gas Analysis
- Beverage Grade CO2 Monitoring
- Heat Treating & Bright Annealing
- Inert Gas Welding of Exotic Materials

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Optional Accessories:

- Optional Ranges: Fully Configured From Factory
- TO2-2x Oxygen Sensor with > 0.5% CO2 Present



Portable PPM Oxygen Analyzer with USB Data Logging & Sample System



0 - 1 PPM Low Range; 0 - 25% High Range

Large Backlit Display w/ User Friendly Menu

Data Log via Removable USB Flash Drive

Integral Swagelok Bypass Valve System

Continuous Analysis during Charging

Electrochemical Sensor Technology

The OMD-640 oxygen analyzer combines a rugged portable design with SSO2's precision oxygen sensors. The result is a highly reliable and cost effective design with easy-to-use user interface.

The analyzer comes with a 0 - 1 PPM full scale low range with a resolution of 0.001 ppm. A removable USB flash drive for data logging via .CSV (Excel) file format. With an 8GB USB Flash Drive, you can data log at 1 minute intervals for about 50 years before running out of storage. The low full scale range and flexibility to easily access data allows this analyzer to be unmatched in the market.

The display of the analyzer is designed to be used in direct sunlight. No need to bring a shade or other method to see the screen.

The oxygen sensor used in the OMD-640 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 cell (TO2-133) is unaffected by other background gases such as H₂, He or Hydrocarbons. The acidic cell (TO2-233) works 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.

Applications

Pipeline leak detection

Spot Checking Air Separation & Liquification

Headspace Gas Analysis

Beverage Grade CO₂ Monitoring

Heat Treating & Bright Annealing

Inert Gas Welding of Exotic Materials

Optional Accessories

TO2-233	Oxygen Sensor (> 0.5% CO ₂ present)
CC	Carrying case with custom foam insert
CF	Coalescing filter with 0.1u filter
SP	Integral sampling pump
REG	Pressure Regulator
HT	High Temp Probe

Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Calibration:	Periodically
Analyzer Range:	0-1/10/100/1000ppm/25%
Output:	0 - 1V DC
Data Logging:	Removable USB Flash Drive
Battery Indicator:	Integrated into Large Display
Power:	Rechargeable Lead Acid Battery 100 - 240 VAC Adapter
Display:	Large with Backlight
Dimensions:	10.9 x 10.0 x 4.9 inch
Enclosure:	Anodized Aluminum
Weight:	8.0 lbs
Pressure:	0.1 - 50 PSIG
Flow Rate:	0.5 - 5 SCFH
Temperature:	0 to 50° C
Temperature Compensation:	Integral
Sensor:	TO2-133 Trace O ₂ Sensor
Response Time:	T90 in 6 Seconds
Gas Connections:	1/8" Compression Tube
Sample System:	Flow Control, 4-way sample/ Bypass Valve, Flow Indicator
Sensor Warranty:	12 months
Analyzer Warranty:	12 months

*Accuracy at constant conditions

Portable Purity Oxygen Analyzer with USB Data Logging & Sample System



0/50/70/80/90 - 100% Suppressed Ranges

Large Backlit Display w/ User Friendly Menu

Advanced Digital Temperature Compensation

Continuous Analysis during Charging

Data Log via Removable USB Flash Drive

Electrochemical Sensor Technology

The OMD-740 oxygen analyzer combines a rugged portable design with SSO2's precision oxygen sensors. The analyzer also has built in temperature and barometric pressure compensation; the result is a highly reliable and cost-effective design with easy-to-use interface.

The analyzer comes standard with a 0 – 100% full scale range with a resolution of 0.01%. The analyzer can also be configured by the end user in the field for suppressed ranges of 50 – 100%, 70 - 100%, 80 – 100% and 90 – 100%. A removable USB flash drive for data logging via .CSV (Excel) file format. With an 8GB USB Flash Drive, you can data log for 1-minute intervals for about 50 years before running out of storage. The advanced set of electronic features and flexibility to easily access data allows this analyzer to be unmatched in the market.

The display of the analyzer is designed to be used in direct sunlight. No need to bring a shade or other method to see the screen.

The oxygen sensor used in the OMD-740 is based on the galvanic electrochemical fuel cell principal and is compensated for both pressure and temperature giving the user added accuracy. All oxygen sensors are manufactured in house by Southland Sensing Ltd. under a strict quality program.

The sensors are self-contained and minimal maintenance is required - no need to clean electrodes or add electrolyte.

Applications

Air Liquefaction and Separation

Gas Purity Certification

Oxygen Monitoring of Medical Gases

Ozone Generation PSA, VPSA

Measurement in Wastewater Treatment Plants

Optional Accessories

CC Carrying case with custom foam insert

CF Coalescing filter with 0.1u filter

SP Integral sampling pump

REG Pressure Regulator

HT High Temp Probe

Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Calibration:	Periodically
Analyzer Range:	0/50/70/80/90-100%
Output:	0 - 1V DC
Data Logging:	Removable USB Flash Drive
Battery Indicator:	Integrated into Large Display
Power:	Rechargeable Lead Acid Battery 100 - 240 VAC Adapter
Display:	Large with Backlight
Dimensions:	10.9 x 10.0 x 4.9 inch
Enclosure:	Anodized Aluminum
Weight:	8.0 lbs
Pressure:	Inlet, 0.1 - 50 PSIG
Flow Rate:	0.5 - 5 SCFH
Temperature:	0 to 50° C
Temperature Compensation:	Integral
Sensor:	P02-1120 Oxygen Sensor
Response Time:	T90 in 13 Seconds
Gas Connections:	1/8" Compression Tube
Sample System:	Flow Control, Flow Indicator
Sensor Warranty:	12 months
Analyzer Warranty:	12 months

*Accuracy at constant conditions

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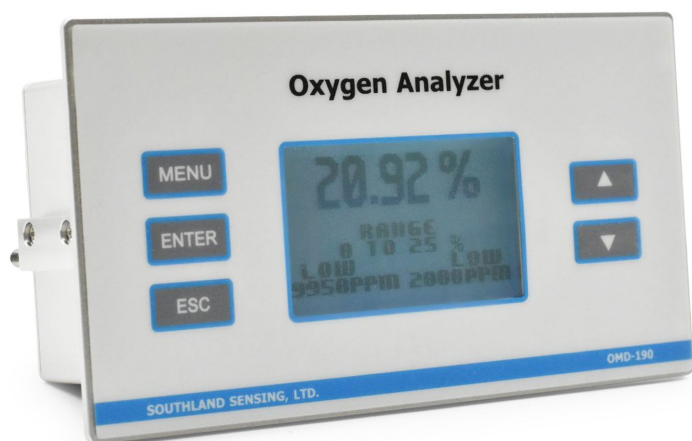
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OMD-190 Oxygen Analyzer

Product Specification Sheet

Online Oxygen Analyzer, Panel Mount Package, Remote Sensor Housing



H6 KF-40
Sensor Housing



H3 Flow Through
Sensor Housing



Oxygen Sensor

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

Panel Mount Design, Direct Fit Replacement

Measure Oxygen from 0.01ppm to 100%

Specifications:

Accuracy:	+/- 1% Full Scale Range*
Display:	LCD with Backlight
Dimensions (Front):	7.00"W x 3.75"H x 2.00" D
Panel Cutout Dimensions:	6.00"W x 2.85"H
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 (Isolated)
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 Oxygen PSA Generators
- Wave Solder Reflow Ovens
- Helium Recovery Systems
- Oxygen Injection in Fish Farms
- & Many Others

Direct Fit Drop in Replacement:

Designed to replace competitive analyzers:

Teledyne: 3190, 3290

AII / PST: GPR-1900, GPR-2900

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Oxygen Analyzer:

The model OMD-190 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-190 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-190 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 H3 Flow Through Sensor Housing |
| 4 | 1/4" Compression Tube Fittings H3 Flow Through Sensor Housing |
| 6 | 6mm Compression Tube Fittings H3 Flow Through Sensor Housing |
| KF | KF-40 (NW40F) Fitting H6 (Inert Glovebox Applications) |

OMD-190 - _____ - _____ - _____ Use This Part Number When Ordering

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OMD-501X Oxygen Analyzer

Product Specification Sheet

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



H6 KF-40
Sensor Housing



H3 Flow Through
Sensor Housing



Oxygen Sensor

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%

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

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Rev 1

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Designed, Tested, and Assembled in California, USA

4045 E. Guasti Rd. #203 Ontario, CA 91761 USA : 1-949-398-2879 : sales@sso2.com : www.sso2.com

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

Online Trace Oxygen Analyzer w/ Integral Sample System



The OMD-675 is designed to measure trace oxygen in the sub 1 ppm region. The unit combines an advanced set of electronic features with our industry leading precision electrochemical oxygen sensor technology. The result is a highly reliable and cost effective design with an easy-to-use user interface.

The analyzer comes with a 0 - 1 PPM full scale low range with a resolution of 0.001 ppm. The analyzer can also be configured for 0 - 1 ppm, 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm and 0 - 25% in auto-range or manual-range mode.

The analyzer offers the user 2 different digital communication options, both of which are bi-directional. These come in the form of MODBUS RS485 ASCII or RS232.

Alarm functionality comes in the way of 2 fully adjustable form C non-latching relay contacts. These can be configured as NO or NC and can be set as HIGH or LOW with optional delay mode. A power failure alarm is also standard and comes as a form C non-latching relay contact.

The oxygen sensor used in the OMD-675 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 cell (TO2-133T) is unaffected by other background gases such as H₂, He, or Hydrocarbons. The optional acidic cell (TO2-233T) works 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.

Applications:

- Air Liquefaction and Separation
- Pure, Gaseous Hydrocarbon Stream Monitoring
- Gas Purity Certification
- Process Monitoring of Gaseous Monomers
- Semiconductor Manufacturing
- Protective Atmosphere Blanketing of Feedstock

0 - 1 PPM Low Range; 0 - 25% High Range

Resolution of 0.001 Parts-Per-Million Oxygen

Integral Sample System w/ Bypass Valve

Bi-Directional Communication Link

Extensive Electronic Features & Outputs

19" Rack Mount Configuration

Electrochemical Sensor Technology

Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Alarms:	(2) Adjustable Relay Contacts (1) Power Fail Relay Contact
Analysis Range:	0-1/10/100/1000ppm/25%
Calibration:	Periodically
Communication:	Bi-Directional RS232 MODBUS RS485 ASCII
Dimensions:	19.0 x 5.125 x 7.75 inch
Display:	Large with Backlight
Enclosure:	Brushed Stainless Steel
Flow Sensitivity:	0.5 - 5 SCFH
Gas Connections:	1/8" Compression Tube
Output (Analog):	0 - 1V DC, 0 - 10V DC Isolated 4 - 20mA
Power:	100 - 240 VAC
Pressure:	Inlet, 0 - 50 PSIG
Range ID:	4 - 20 mA analog output 0 - 1 V DC analog output
Response Time:	T90 in 10 Seconds
Sample System:	Flow Control, 4-way sample / Bypass Valve, Flow Indicator
Sensor:	TO2-133T Trace O ₂ Sensor
Sensor Life:	20 - 25 months
Temperature:	0 - 50 deg C
Temperature Compensation:	Digital
Warranty:	12 months Analyzer & Sensor
Weight:	13.0 lbs

*Accuracy at constant conditions

Optional:

Panel Mount Oxygen Configuration (OMD-677)

[Dimensions: 10.78 x 7.47 x 7.75 inch]

TO2-233T Oxygen Sensor (for use in CO₂)

Online Trace Oxygen Analyzer w/ Integral Sample System



The OMD-677 is designed to measure trace oxygen in the sub 1 ppm region. The unit combines an advanced set of electronic features with our, industry leading, precision electrochemical oxygen sensor technology. The result is a highly reliable and cost effective design with easy-to-use user interface.

The analyzer comes with a 0 - 1 PPM full scale low range with a resolution of 0.001 ppm. The analyzer can also be configured for 0 - 1 ppm, 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm and 0 - 25% in auto-range or manual-range mode.

The analyzer offers the user 2 different digital communication options, both of which are bi-directional. This comes in the form of MODBUS RS485 ASCII or RS232.

Alarm functionality comes in the way of 2 fully adjustable form C non-latching relay contacts. These can be configured as NO or NC and can be set as HIGH or LOW with optional delay mode. A power failure alarm is also standard and comes as a form C nonlatching relay contact.

The oxygen sensor used in the OMD-677 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 cell (TO2-133T) is unaffected by other background gases such as H₂, He, or Hydrocarbons. The optional acidic cell (TO2-233T) works 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.

Applications:

- Air Liquefaction and Separation
- Pure, Gaseous Hydrocarbon Stream Monitoring
- Gas Purity Certification
- Process Monitoring of Gaseous Monomers
- Semiconductor Manufacturing
- Protective Atmosphere Blanketing of Feedstock

0 - 1 PPM Low Range; 0 - 25% High Range

Resolution of 0.001 Parts-Per-Million Oxygen

Integral Sample System w/ Bypass Valve

Bi-Directional Communication Link

Extensive Electronic Features & Outputs

Panel Mount Configuration

Electrochemical Sensor Technology

Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Alarms:	(2) Adjustable Relay Contacts (1) Power Fail Relay Contact
Analysis Range:	0-1/10/100/1000ppm/25%
Calibration:	Periodically
Communication:	Bi-Directional RS232 MODBUS RS485 ASCII
Dimensions:	10.78 x 7.47 x 7.75 inch
Display:	Large with Backlight
Enclosure:	Brushed Stainless Steel
Flow Sensitivity:	0.5 - 5 SCFH
Gas Connections:	1/8" Compression Tube
Output (Analog):	0 - 1V DC, 0 - 10V DC Isolated 4 - 20mA
Power:	100 - 240 VAC
Pressure:	Inlet, 0 - 50 PSIG
Range ID:	4 - 20 mA analog output 0 - 1 V DC analog output
Response Time:	T90 in 10 Seconds
Sample System:	Flow Control, 4-way sample / Bypass Valve, Flow Indicator
Sensor:	TO2-133T Trace O ₂ Sensor
Sensor Life:	20 - 25 months
Temperature:	0 - 50 deg C
Temperature Compensation:	Digital
Warranty:	12 months Analyzer & Sensor
Weight:	12.0 lbs

*Accuracy at constant conditions

Direct Fit Field Replacement:

Designed to replace competitive analyzers:

Teledyne: 3000TA, 3000TA-XL

All: GPR-1600, GPR-1600MS, PI2-MS-1000

Online Oxygen Purity Analyzer w/ Integral Sample System



The OMD-775 is designed to measure elevated oxygen levels (21% – 100%) for online applications. The unit combines an advanced set of electronic features with our industry leading precision electrochemical oxygen sensor technology. The analyzer also has built in temperature and barometric pressure compensation, the result is a highly reliable and cost effective design with an easy-to-use user interface.

The analyzer comes standard with a 0 – 100% full scale range with a resolution of 0.01%. The analyzer can also be configured by the end user in the field for suppressed ranges of 50 – 100%, 80 – 100% and 90 – 100%. The analyzer comes with the ability to auto-range through all four ranges, this is accomplished with the choice of a voltage or current analog output.

The analyzer offers the user 2 different digital communication options, both of which are bi-directional. These come in the form of MODBUS RS485 ASCII or RS232.

Alarm functionality is performed by 2 fully adjustable form C non-latching relay contacts. These can be configured as NO or NC and can be set as HIGH or LOW with optional delay mode. A power failure alarm is also standard and comes as a form C non-latching relay contact.

The oxygen sensor used in the OMD-775 is based on the galvanic electrochemical fuel cell principal and is compensated for both pressure and temperature giving the user added accuracy. All oxygen sensors are manufactured in house by Southland Sensing Ltd. under a strict quality program.

The analyzer is a cost-effective, yet similarly performing, alternative to paramagnetic oxygen sensors packaged in a 19" rack mount for easy installation and operation.

Applications:

- Air Liquefaction and Separation
- Gas Purity Certification
- Oxygen Monitoring of Medical Gases
- Ozone Generation PSA, VPSA
- Measurement in Wastewater Treatment Plants

0/50/80/90 - 100% Suppressed Ranges

Advanced Digital Temperature Compensation

Integral Barometric Pressure Compensation

Bi-Directional Communication Link

Extensive Electronic Features & Outputs

19" Rack Mount Configuration

Electrochemical Sensor Technology

Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Alarms:	(2) Adjustable Relay Contacts (1) Power Fail Relay Contact
Analysis Range:	0/50/80/90 - 100%
Calibration:	Periodically
Communication:	Bi-Directional RS232 MODBUS RS485 ASCII
Dimensions:	19.0 x 5.125 x 7.75 inch
Display:	Large with Backlight
Enclosure:	Brushed Stainless Steel
Flow Sensitivity:	0.5 - 5 SCFH
Gas Connections:	1/8" Compression Tube
Output (Analog):	0 - 1V DC, 0 - 10V DC Isolated 4 - 20mA
Power:	100 - 240 VAC
Pressure:	Inlet, 0 - 50 PSIG
Range ID:	4 - 20 mA analog output 0 - 1 V DC analog output
Response Time:	T90 in 30 Seconds
Sample System:	Flow Control, 4-way sample / Flow Indicator
Sensor:	PO2-1120 Percent O2 Sensor
Sensor Life:	20 - 25 months @ 100% O2
Temperature:	0 - 50 deg C
Temperature Compensation:	Digital
Warranty:	12 months Analyzer & Sensor
Weight:	13.0 lbs

*Accuracy at constant conditions

Online Oxygen Monitor with Alarms & Battery Backup



The OMD-351-O2 Ambient Air Monitor is designed to measure and assure the appropriate levels of both oxygen in an enclosed or confined area. Personnel safety is a primary issue in nearly every industry and is magnified within confined spaces where oxygen depletion or asphyxiation due to a leak in an inert gas container can quickly and unexpectedly take place.

The OMD-351-O2 is designed with an easy to use interface with features that are optimized for safety and mitigate the dangers of confined spaces and oxygen deficiency. The analyzer comes with 2 pre-configured oxygen concentration alarms that match the OSHA recommendations of 19.5% and 20.0%. Alarm functionality comes in the form of 2 fully adjustable, form C non-latching, relay contacts, an integral audible buzzer and local LEDs' loaded into the front of the unit. The unit also has a built in POWER FAIL relay contact.

The unit comes standard with an integral battery backup which helps accentuate "brown out" conditions. With this standard feature, power outages will not interfere with a properly working monitor. The standby power source uses a rechargeable lead acid battery.

The oxygen sensor used in the OMD-351-O2 is based on the galvanic electrochemical fuel cell principal. The sensors are self-contained and minimal maintenance is required - no need to clean electrodes or add electrolyte.

0 - 30% O2 Concentration Range

Precision Electrochemical Sensor Technology

Barometric Pressure Compensation

Two Concentration Relay Contact Alarms

Power Failure Alarm Relay Contact

Integral Audible Buzzer Alarm

Integrated Rechargeable Battery Backup

Integral Visual Alarm LEDs

Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Alarms:	(2) Adjustable Relay Contacts (1) Power Fail Relay Contact
Analysis Range:	0 - 30% O2
Audible Alarm:	Integral
Barometric Pressure Compensation:	Integral
Battery Backup:	Rechargeable
Calibration:	Periodically
Dimensions:	9.5x 6.5 x 3.8 inch
Display:	Large with Backlight
Enclosure:	Painted Aluminum
Output (Analog):	4 - 20mA (1 each O2 / CO2)
Power:	100 - 240 VAC
Response Time:	T90 in 10 Seconds
Sensor:	PO2-AMB, CO2-AMB
Sensor Life:	60 Months (Approximately)
Temperature:	0 - 50 deg C
Temperature Compensation:	Integral
Visual Alarms:	Panel Mounted LED's
Warranty:	12 months Analyzer & Sensor
Weight:	13.0 lbs

*Accuracy at constant conditions

Optional Configurations:

24V DC Input Power

Remote Oxygen Sensor (OMD-351-O2-Remote)

O2 / CO2 Dual Ambient Air Monitor (OMD-351-O2-CO2)

Online Dual Oxygen & Carbon Dioxide Monitor with Alarms & Battery Backup



The OMD-351-O2-CO2 Ambient Air Monitor is designed to measure and assure the appropriate levels of both oxygen and carbon dioxide in an enclosed or confined area. Personnel safety is a primary issue in nearly every industry and is magnified within confined spaces where oxygen depletion or asphyxiation due to a leak in an inert gas container can quickly and unexpectedly take place.

The OMD-351-O2-CO2 is designed with an easy to use interface with features that are optimized for safety and mitigate the dangers of confined spaces and oxygen deficiency. The analyzer comes with 2 pre-configured oxygen concentration alarms that match the OSHA recommendations of 19.5% and 20.0%. Alarm functionality comes in the form of 2 fully adjustable, form C non-latching, relay contacts, an integral audible buzzer and local LEDs' loaded into the front of the unit. The unit also has a built in POWER FAIL relay contact.

The unit comes standard with an integral battery backup which helps accentuate "brown out" conditions. With this standard feature, power outages will not interfere with a properly working monitor. The standby power source uses a rechargeable lead acid battery.

The oxygen sensors used in the OMD-351-O2-CO2 are based on the galvanic electrochemical fuel cell principal. The sensors are self-contained and minimal maintenance is required - no need to clean electrodes or add electrolyte.

0 - 30% O2 Concentration Range

0 - 10,000 PPM CO2 Concentration Range

Precision Electrochemical Sensor Technology

Barometric Pressure Compensation

Two Concentration Relay Contact Alarms

Power Failure Alarm Relay Contact

Integral Audible Buzzer Alarm

Integrated Rechargeable Battery Backup

Integral Visual Alarm LEDs

Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Alarms:	(2) Adjustable Relay Contacts (1) Power Fail Relay Contact
Analysis Range:	0 - 30% O2 0 - 10,000 PPM CO2
Audible Alarm:	Integral
Barometric Pressure Compensation:	Integral
Battery Backup:	Rechargeable
Calibration:	Periodically
Dimensions:	9.5x 6.5 x 3.8 inch
Display:	Large with Backlight
Enclosure:	Painted Aluminum
Output (Analog):	4 - 20mA (1 each O2 / CO2)
Power:	100 - 240 VAC
Response Time:	T90 in 10 Seconds
Sensor:	PO2-AMB, CO2-AMB
Sensor Life:	60 Months (Approximately)
Temperature:	0 - 50 deg C
Temperature Compensation:	Integral
Visual Alarms:	Panel Mounted LED's
Warranty:	12 months Analyzer & Sensor
Weight:	13.0 lbs

*Accuracy at constant conditions

Optional Configurations:

24V DC Input Power

Remote Oxygen Sensor (OMD-351-O2-Remote)

O2 Ambient Air Monitor (OMD-351-O2)

PER OEM

SOUTHLAND SENSING

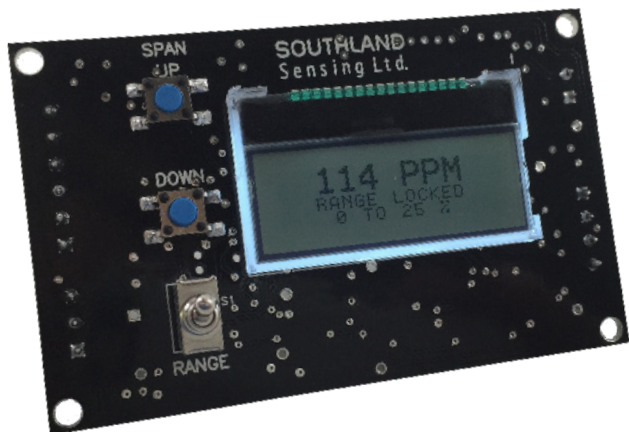
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EMD-482 Oxygen Transmitter

MEASURE. ANALYZE. CONTROL.

Product Specification Sheet

Configurable OEM Oxygen Transmitter, 2-wire loop



Well Suited for OEM Installations

Precision Fuel Cell Oxygen Sensor Technology

Trace or Percent Configuration

Measure Oxygen from 0.1ppm to 100%

Updated Microprocessor Based Design

Cost Effective, Compact & Low Maintenance

Seamlessly integrates with PLC & DCS Systems

Configurations:

User Selectable Ranges (Pre-Configured):

0 - 10ppm/100/1000ppm/1%/5%/10%/25%/100%

Digital Push Buttons to Perform Local Span Cal

Sensor Housings: H6 KF-40 or H3 Flow Through

Optional Display without Backlight

Many additional customized options available



H3 Flow Through
Sensor Housing

H6 KF-40
Sensor Housing



Oxygen Sensor

Specifications:

Accuracy:	< 1% Full Scale Range*
Calibration:	2 - 3 months or as needed
Classification:	General Purpose
Dimensions (PCB):	3.25 x 2.00 inch
Display:	Optional
Temperature:	0 - 50 deg C
Temperature Compensation:	Integral
Output:	4 - 20mA
Sensor Housing:	Optional, H6 or H3
Flow Sensitivity:	0.5 - 5.0 SCFH
Sensor Type:	Precision Fuel Cell
Warranty:	12 Months Sensor
Warranty:	12 Months Electronics

*Accuracy at constant conditions

Applications:

- Inert Glove Box Systems
- Nitrogen and O2 PSA Generators
- Laboratories & Universities
- Beverage Grade CO2 Monitoring
- Air Separation Plants
- & Many Others

"Inquiry for Application Expertise"

Oxygen Transmitter:

The model EMD-482 oxygen transmitter combines a rugged electronic 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 transmitter comes with a variety of options, which makes it configurable for a large array of applications. These options include custom ranges from 0 - 10ppm through 0 - 100%, a local display, sensor housings for flow through applications and ambient monitoring, as well as a variety of oxygen sensors. See the below ordering guide for complete options.

This unit is configured as a 2-wire loop powered device and is idea for integration with a PLC or DCS system. Output is non-isolated.

Oxygen Sensor Technology:

The oxygen sensor used in the EMD-482 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 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:

EMD-485 Oxygen Transmitter

Optional Display:

D Local Display with Backlight
X No Display, Blind

Area of Analyzers

T Trace Analysis
P Percent Analysis

Optional 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%

Optional Sensor Housing:

8 H3 Flow Through with 1/8" Compression Tube Fittings
4 H3 Flow Through with 1/4" Compression Tube Fittings
6 H3 Flow Through with 6mm Compression Tube Fittings
K H6 KF-40 Sensor Housing (ideal for Ambient Monitoring or Glove Box Applications)

Optional Factory Pre-Set 2nd Range:

If you want the factory to pre-set a 2nd range, please list the value here:
| (i.e. 0 - 10ppm, 0 - 100ppm, 0 - 10%, etc.)

Use This Part Number When Ordering

** For assistance when ordering, contact our inside sales specialist **

EMD-485 - - - - -

PER OEM

SOUTHLAND SENSING

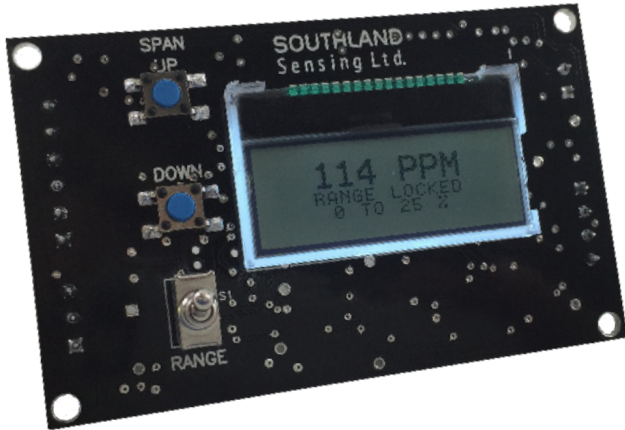
MEASURE. ANALYZE. CONTROL.

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EMD-485M Oxygen Transmitter

Product Specification Sheet

Configurable OEM Oxygen Transmitter, 6-wire, MODBUS RS485 ASCII



Well Suited for OEM Installations

Precision Fuel Cell Oxygen Sensor Technology

Trace or Percent Configuration

Measure Oxygen from 0.1ppm to 100%

4 - 20mA, 0 - 1V DC, 0 - 10V DC Outputs

Bi-Directional RS485 MODBUS ASCII

Updated Microprocessor Based Design

Cost Effective, Compact & Low Maintenance

Configurations:

User Selectable Ranges (Pre-Configured):

0 - 10ppm/100/1000ppm/1%/5%/10%/25%/100%

Digital Push Buttons to Perform Local Span Cal

Sensor Housings: H6 KF-40 or H3 Flow Through

Graphical Display with Backlight

Many additional customized options available

Integral Span Pot to Adjust 4mA Offset

Specifications:

Accuracy:	< 1% Full Scale Range*
Calibration:	2 - 3 months or as needed
Classification:	General Purpose
Dimensions (PCB):	3.25 x 2.00 inch
Display:	Optional
Temperature:	0 - 50 deg C
Temperature Compensation:	Integral
Output:	4 - 20mA, 0 - 1VDC, 0 - 10VDC
Sensor Housing:	Optional, H6 or H3
Flow Sensitivity:	0.5 - 5.0 SCFH
Sensor Type:	Precision Fuel Cell
Warranty:	12 Months Sensor
Warranty:	12 Months Electronics

*Accuracy at constant conditions



H3 Flow Through
Sensor Housing



H6 KF-40
Sensor Housing



Oxygen Sensor

Applications:

- Inert Glove Box Systems
- Nitrogen and O2 PSA Generators
- Laboratories & Universities
- Beverage Grade CO2 Monitoring
- Air Separation Plants
- & Many Others

"Inquiry for Application Expertise"

Oxygen Transmitter:

The model EMD-485M oxygen transmitter combines a rugged electronic 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 transmitter comes with a variety of options, which makes it configurable for a large array of applications. These options include custom ranges from 0 - 10ppm through 0 - 100%, a local display, sensor housings for flow through applications and ambient monitoring, as well as a variety of oxygen sensors. See the below ordering guide for complete options.

RS485 Modbus ASCII comes standard on this transmitter which allows for easy digital communication.

Power Requirements:

Input Power: 12 - 24 V DC
Current Draw: 40 mA (max)

Oxygen Sensor Technology:

The oxygen sensor used in the EMD-485M 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 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:

EMD-485 Oxygen Transmitter

Optional Display:

D Local Display with Backlight
X No Display, Blind

Area of Analyzers

T Trace Analysis
P Percent Analysis

Optional 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%

Optional Sensor Housing:

8 H3 Flow Through with 1/8" Compression Tube Fittings
4 H3 Flow Through with 1/4" Compression Tube Fittings
6 H3 Flow Through with 6mm Compression Tube Fittings
K H6 KF-40 Sensor Housing (ideal for Ambient Monitoring or Glove Box Applications)

Optional Factory Pre-Set 2nd Range:

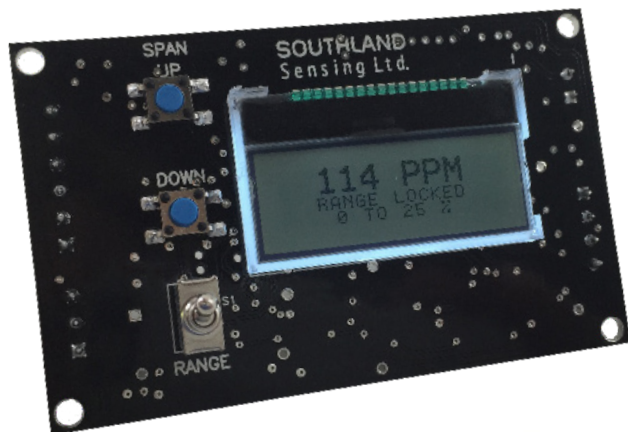
If you want the factory to pre-set a 2nd range, please list the value here:
| (i.e. 0 - 10ppm, 0 - 100ppm, 0 - 10%, etc.)

Use This Part Number When Ordering

** For assistance when ordering, contact our inside sales specialist **

EMD-485 - - - - -

Configurable OEM Oxygen Transmitter, 6-wire



Well Suited for OEM Installations

Precision Fuel Cell Oxygen Sensor Technology

Trace or Percent Configuration

Measure Oxygen from 0.1ppm to 100%

4 - 20mA, 0 - 1V DC, 0 - 10V DC Outputs

Updated Microprocessor Based Design

Cost Effective, Compact & Low Maintenance

Configurations:

User Selectable Ranges (Pre-Configured):

0 - 10ppm/100/1000ppm/1%/5%/10%/25%/100%

Digital Push Buttons to Perform Local Span Cal

Sensor Housings: H6 KF-40 or H3 Flow Through

Graphical Display with Backlight

Many additional customized options available

Integral Span Pot to Adjust 4mA Offset

Specifications:

Accuracy:	< 1% Full Scale Range*
Calibration:	2 - 3 months or as needed
Classification:	General Purpose
Dimensions (PCB):	3.25 x 2.00 inch
Display:	Optional
Temperature:	0 - 50 deg C
Temperature Compensation:	Integral
Output:	4 - 20mA, 0 - 1VDC, 0 - 10VDC
Sensor Housing:	Optional, H6 or H3
Flow Sensitivity:	0.5 - 5.0 SCFH
Sensor Type:	Precision Fuel Cell
Warranty:	12 Months Sensor
Warranty:	12 Months Electronics

*Accuracy at constant conditions



H3 Flow Through
Sensor Housing



H6 KF-40
Sensor Housing



Oxygen Sensor

Applications:

- Inert Glove Box Systems
- Nitrogen and O2 PSA Generators
- Laboratories & Universities
- Beverage Grade CO2 Monitoring
- Air Separation Plants
- & Many Others

"Inquiry for Application Expertise"

Oxygen Transmitter:

The model EMD-485 oxygen transmitter combines a rugged electronic 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 transmitter comes with a variety of options, which makes it configurable for a large array of applications. These options include custom ranges from 0 - 10ppm through 0 - 100%, a local display, sensor housings for flow through applications and ambient monitoring, as well as a variety of oxygen sensors. See the below ordering guide for complete options.

Power Requirements:

Input Power: 12 - 24 V DC
Current Draw: 40 mA (max)

Oxygen Sensor Technology:

The oxygen sensor used in the EMD-485 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 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:

EMD-485 Oxygen Transmitter

Optional Display:

D Local Display with Backlight
X No Display, Blind

Area of Analyzers

T Trace Analysis
P Percent Analysis

Optional 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%

Optional Sensor Housing:

8 H3 Flow Through with 1/8" Compression Tube Fittings
4 H3 Flow Through with 1/4" Compression Tube Fittings
6 H3 Flow Through with 6mm Compression Tube Fittings
K H6 KF-40 Sensor Housing (ideal for Ambient Monitoring or Glove Box Applications)

Optional Factory Pre-Set 2nd Range:

If you want the factory to pre-set a 2nd range, please list the value here:
| (i.e. 0 - 10ppm, 0 - 100ppm, 0 - 10%, etc.)

Use This Part Number When Ordering

** For assistance when ordering, contact our inside sales specialist **

EMD-485 - - - - -