Configurable Online Wall Mount IP66 / NEMA4X Oxygen Analyzer



Trace or Percent 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 Flow Through Design

Cost Effective and Low Maintenance

Optional Electronic Configurations:

2-wire loop transmitter /non backlit display 6-wire Analyzer , 4 - 20mA and 0 - 10VDC Output Intrinsically Safe for Class 1, Div. 2 Groups B, C, D "Smart" xmitter with Bi-Directional RS485 MODBUS Integral Alarms with AC or DC Input Power

Specifications:

| Accuracy: | < 1% Full Scale Range* |
|---------------------------|------------------------|
| Approval: | CE Certified |
| Dimensions: | 9.5″ x 6.5″ x 3.8″ |
| Enclosure: | NEMA 4X / IP66 |
| Temperature Rating: | -10 to 50 deg C |
| Temperature Compensation: | Integral |
| Gas Connections: | Configurable |
| Flow Sensitivity: | 0.5 - 5.0 SCFH |
| Pressure: | 0.1- 50 PSIG |
| Sensor Type: | Precision Fuel Cell |
| Warranty: | 12 Months Sensor |
| Warranty: | 12 Months Electronics |

Applications:

- Welding & 3D Printers
- N2, O2, H2 Inert Gas Generators
- Laboratories & Universities
- Steel & Other Metal Processing
- Reflow Soldering
- And Many Other Industrial Applications

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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, 6-wire, alarms, 12 - 24VDC or 100 - 240VAC, and an intrinsically safe option.

The analyzer can be configured for trace (parts-permillion) 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).

Optional Alarms:

2-non latching fully configurable Form C relay contact alarms.

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

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.

| Mo | del Number: D-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% Electronics Package: 2 2-Wire Loop Powered 4 to 20mA Transmitter, 12 - 24VDC Input (Non-Backlit) |
| | 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 ASC IS 12 - 24 VDC Analyzer, 4 - 20mA Analog Output, Class 1, Division 2 Groups B, C, D A-DC 12 - 24VDC Analyzer, With Integral Alarms with 4 -20mA and 0 - 10VDC Outputs A-AC 100 - 240VAC Analyzer, With Integral Alarms with 4 -20mA and 0 - 10VDC Outputs Gas Connections: |
| | 8 1/8" Compression Tube Fittings 4 1/4" Compression Tube Fittings 6 mm Compression Tube Fittings |

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

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.

Applications:

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

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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, (partsper-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 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).

Optional Alarms:

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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 In Record | Iformation: Part Number with selected options in Blank Indicated Area of Form |
|--------------------|---|
| Ma OM | odel Number: ID-525X Oxygen Analyzer |
| | Selected Range & Sensor: 1 Trace Analysis Standard (TO2-1x): 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 1000ppm, 0 - 25% 2 Trace Analysis Acidic (TO2-2x): 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 1000ppm, 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 | D-525X Use This Part Number When Ordering |

Portable Percent Oxygen Analyzer with USB Data Logging



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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* |
|---------------------------|--|
| Analysis Range: | 0-1%/5%/10%/25%/100% |
| Battery Indicator: | Integrated into Display |
| Calibration: | Periodically |
| Classification: | IP66 / NEMA4X |
| Data Logging: | Removable USB Flash Drive |
| Dimensions: | 8.80 x 7.50 x 3.90 inch |
| Display: | Integrated w/ Backlight |
| Enclosure: | Rugged Polypropylene |
| Flow Sensitivity: | 0.5 - 5 SCFH |
| Gas Connections: | 1/8" Tube Fittings |
| 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: | PO2-160 Percent O2 Sensor |
| Sensor Life: | 60 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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Product Specifications

OMD-580 Portable Trace Oxygen Analyzer





Optional Accessories:

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

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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Product Specifications

OMD-507 Oxygen Transmitter



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

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Trace, Percent or Purity Configuration Precision Fuel Cell Oxygen Sensor Technology Measure Oxygen from 0.1ppm to 100% Large Backlight Display w/ Auto-Range Intuitive User Friendly Interface Compact In-Line Design Cost Effective and Low Maintenance Span and Zero Calibration Performed Digitally

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: | Nylon 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

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Oxygen Transmitter:

The model OMD-507 oxygen transmitter 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 transmitter comes in 4 different packages for maximum installation considerations. These include 2-wire, 6-wire with RS485 Bi-Directional Modbus and an intrinsically safe option with Zener Barriers.

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

The display of the transmitter 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 Swagelok tube fittings.

Power Requirements:

| | Input Power: Current Draw: | 12 - 24 V DC 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 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.

| Moc OMD | l el Number: -507 Oxygen Transmitter |
|------------|---|
| | Selected Range & Sensor: 1 Trace Analysis Standard (TO2-1x): 0 - 10ppm, 0 - 100ppm, 0 - 100ppm, 0 - 1%, 0 - 25% 2 Trace Analysis Standard (TO2-2x): 0 - 10ppm, 0 - 100ppm, 0 - 100ppm, 0 - 1%, 0 - 25% 5 Percent Analysis Standard (PO2-160): 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100% 6 Percent Analysis (PO2-24): 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 100% 8 Purity Analysis (PO2-1120): 0 - 100% 8 Electronics Package: 2 -2-Wire Loop Powered 4 to 20mA Transmitter, 12 - 24VDC Input 6 6-Wire Transmitter, 12 - 24VDC Input, 4 - 20mA and 0 - 10VDC Output (MODBUS Pending Z Intrinsically Safe 2-Wire with Zener Barrier [MTL-7706] |
| | Gas Connections: 8 1/8" Swagelok Tube Fittings 4 1/4" Swagelok Tube Fittings 6 6mm Swagelok Tube Fittings |

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Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it UMD-501X UXYgen Analyzer MEASURE. ANALYZE. CONTROL. **Product Specification Sheet**

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%

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



H6 KF-40 **Sensor Housing**

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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H3 Flow Through Sensor Housing

SOUTHLAND SENSING

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Oxygen Sensor

4045 E. Guasti Rd. #20

EASURE, ANALYZE.

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: Input Power: Current Draw:

Rev



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.



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 MEASURE. ANALYZE. CONTROL.
 Product Specification Sheet

Hazardous Area Online Process Oxygen Analyzer w/Sample System





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

"Inquiry for Application Expertise"

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 0.01ppm 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 |

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 - 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.

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): |
| Electronics Package:212 - 24V DC 2-wire Loop (delete backlight, delete alarm relay contacts)412 - 24V DC 4-wire Input Power7100 - 240V AC Input Power7102 - 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 |

Portable PPM Oxygen Analyzer with USB Data Logging & Sample System



Specifications

| Accuracy: | < +/- 1% of Full Scale Range* |
|---------------------------|--|
| Analysis Range: | 0-1/10/100/1000ppm/25% |
| Battery Indicator: | Integrated into Large Display |
| Calibration: | Periodically |
| Data Logging: | Removable USB Flash Drive |
| Dimensions: | 10.9 x 10.0 x 4.9 inch |
| Display: | Large with Backlight |
| Enclosure: | Brushed Stainless Steel |
| Flow Sensitivity: | 0.5 - 5 SCFH |
| Gas Connections: | 1/8" Swagelok Tube Fittings |
| Output (Analog): | 0 - 1V DC |
| Power: | Rechargeable Battery 100 - 240 VAC AC Adapter |
| Pressure: | Inlet, 0 - 50 PSIG |
| Response Time: | T90 in 10 Seconds |
| Sample System: | Flow Control, 4-way sample/ |
| | Bypass Valve, Flow Indicator |
| Sensor: | TO2-133 Trace O2 Sensor |
| Sensor Life: | 20 - 25 months |
| Temperature: | 0 - 50 deg C |
| Temperature Compensation: | Integral |
| Warranty: | 12 months |
| Weight: | 11.75 lbs |
| | |

*Accuracy at constant conditions

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 and 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 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

| ENC-640 | Carrying case with foam insert |
|---------|------------------------------------|
| CF-640 | Coalescing filter with 0.1u filter |
| PP-640 | Integral sampling pump |
| TO2-233 | Oxygen Sensor (> 0.5% CO2 present) |

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 autorange 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 O2 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 x7.75 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 autorange 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 O2 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

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