EMD-485 OEM Oxygen Transmitter



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 and Low Maintenance Bi-directional Modbus RS485 3-wire Protocol



H3 Flow Throw



Sensor Housing



Oxygen Sensor

H1 KF-40 **Sensor Housing**

Applications:

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

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: H1 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
Digital Communication:	Bi-Directional RS485 Modbus
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, H1 or H3
Flow Sensitivity:	0 - 5.0 SCFH
Sensor Type:	Precision Fuel Cell
Warranty:	12 Months Sensor
Warranty:	12 Months Electronics
	*Accuracy at constant conditions

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EMD-485 Oxygen Transmitter

Product Specifications

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 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.

Bi-Directional 3-wire MODBUS RS485 protocol is pending and should be available shortly.

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:** Local Display with Backlight No Display, Blind **Area of Analyzers** Trace Analysis Percent Analysis **Optional Sensor:** Trace Analysis Standard (TO2-1x): 0 - 10ppm, 0 - 100ppm, 0 - 100ppm, 0 - 1%, 0 - 25% Trace Analysis Acidic (TO2-2x): 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 1%, 0 - 25% Percent Analysis Standard (PO2-160): 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 10% Percent Analysis Acidic (PO2-24): 0 - 1%, 0 - 5%, 0 - 10%, 0 - 25%, 0 - 10% 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" Swagelok Tube Fittings 4 H3 Flow Through with 1/4" Swagelok Tube Fittings H3 Flow Through with 6mm Swagelok Tube Fittings H1 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 ** FMD-485 -

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