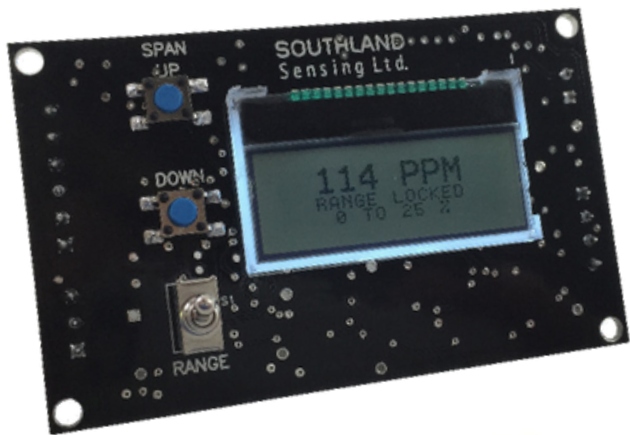


EMD-485 Oxygen Transmitter

Product Specification Sheet

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

*Accuracy at constant conditions



H3 Flow Through
Sensor Housing

H6 KF-40
Sensor Housing



Oxygen Sensor

Applications:

- Inert GloveBox 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 oxygensensor 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:

RecordPartNumberwithselected 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:

- | | | |
|---|--------------------------------------|---|
| 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 thefactory topre-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 - - - - -