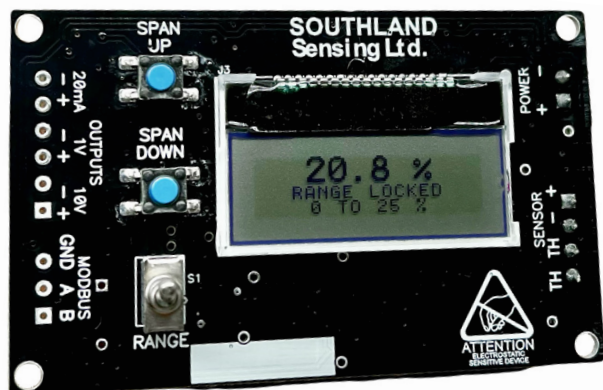


Configurable OEM Oxygen Transmitter, 2-wire loop



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



Oxygen Sensor



H3 Flow Through
Sensor Housing



H6 KF-40
Sensor Housing



H6 Long 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/10000ppm

1%/5%/10%/25%/100%

Digital Push Buttons to Perform Local Span Cal

Sensor Housing: KF-40 (NW40F) or H3 Flow Through

Optional Display without Backlight

Many additional customized options available

Specifications:

Accuracy:	< 1% Full Scale Range*
Calibration:	2 - 3 months or as needed
Output:	4 - 20mA, 0 - 1VDC, 0 - 10VDC
Cable Length:	72 inch
Classification:	General Purpose
Display:	LCD Without Backlight
Dimensions (PCB):	3.25 x 2.00 inch
Pressure:	0.1 - 50 PSIG
Flow Rate:	0.5 - 5 SCFH, Vent to ATM
Temperature:	0 to 50° C
Temperature Compensation:	Integral
Sensor Housing:	Configurable
Sensor Warranty:	12 Months
Electronics Warranty:	12 Months

*Accuracy at constant conditions

"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.

Gas connections are made with compression tube fittings or a direct fit KF-40 Housing. Sensor housings come standard with a 72 inch Cable.

***Due to signal degradation max cable length possible is 72"**
***Sensor cable should not be spliced**

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.

Note: Due to power limitations of 2-wire loop systems, there is no backlight on the optional display.

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
- PO2-1120 Purity Oxygen Sensor: Purity Analysis
- 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:

EMD-482 Oxygen Transmitter

Optional Display:

D Local Display With No Backlight

Optional 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%
- 8 Purity Analysis (PO2-1120): 0 - 100%
- 9 Hybrid Analysis Standard (TO2-19): 0 - 1000 ppm, 0 - 10000 ppm, 0 - 25%

Optional Sensor Housing:

- 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

Factory Pre-Set 2nd Range:

If you want the factory to pre-set a specific 2nd range, please list the value here:
(i.e. 0 - 10ppm, 0 - 100ppm, 0 - 10%, etc.)
Pre-Set to 0 - 1000ppm when no option is selected (ppm)

EMD-482 - - - - Use This Part Number When Ordering

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