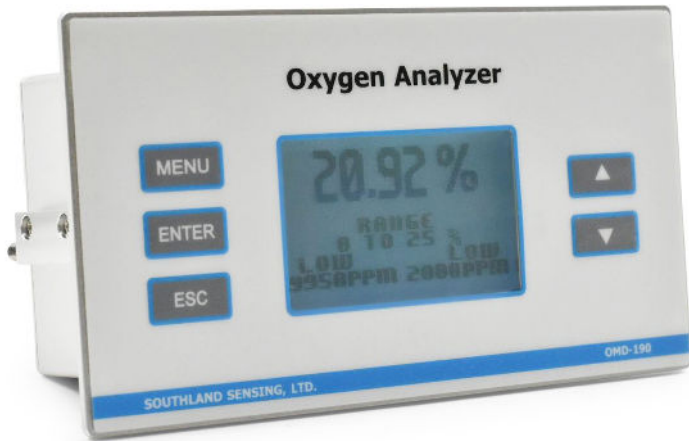


Online Oxygen Analyzer, Panel Mount Package, Remote Sensor Housing



**H6 KF-40
Sensor Housing**



**H3 Flow Through
Sensor Housing**



Oxygen Sensor

Applications:

- Inert Glove Box Systems
- Nitrogen and Oxygen PSA Generators
- Wave Solder Reflow Ovens
- Helium Recovery Systems
- Oxygen Injection in Fish Farms
& Many Others

"Inquiry for Application Expertise"

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

Direct Fit Drop in Replacement:

Designed to replace competitive analyzers:

Teledyne: 3190, 3290

All / PST: GPR-1900, GPR-2900

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