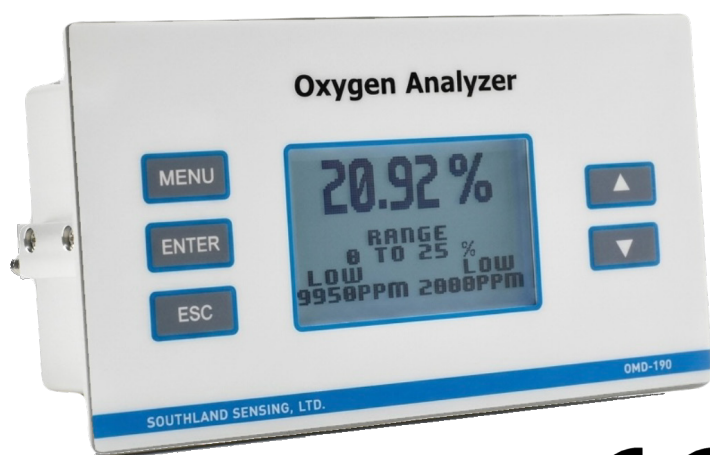


Online Oxygen Analyzer, Panel Mount Package, Remote Sensor Housing



Oxygen Sensor



H3 Flow Through
Sensor Housing



H6 KF-40
Sensor Housing



H6 Long KF-40
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

Panel Mount Design, Direct Fit Replacement

Measure Oxygen from 0.01ppm to 100%

Specifications:

Accuracy:	+/- 1% Full Scale Range*
Calibration:	Periodically
Alarms:	2 Adjustable w/ delay mode
Range ID:	1 - 5 VDC (Optional 4 - 20mA)
Communication:	Bi-Directional MODBUS RS485 ASCII
Output:	4 - 20mA (Isolated)
Power:	10 - 28 VDC or 100 - 240 VAC
Classification:	General Purpose
Display:	LCD with Backlight
Dimensions (Front):	7.00"W x 3.75"H x 2.00"D
Panel Cuttout Dimensions:	6.00"W x 2.85"H
Enclosure:	Anodized Aluminum
Pressure:	0.1 - 50 PSIG
Flow Sensitivity:	0.5 - 5 SCFH
Temperature:	0 to 50° C
Temperature Compensation:	Integral
Sensor:	Configurable
Warranty Sensor:	12 Months
Warranty Electronics:	12 Months

*Accuracy at constant conditions

Applications:

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

Direct Fit Drop in Replacement:

Designed to replace competitive analyzers:

Teledyne: 3190, 3290

All: GPR-1900, GPR-2900

"Inquiry for Application Expertise"

Published: 3/30/2026

Designed, Tested, and Assembled in California, USA

4405 E. Airport Dr. #100 Ontario, CA 91761 USA : 1-949-398-2879 : sales@sso2.com : www.sso2.com

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. Sensor housings come standard with a 72 inch Cable.

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:

- 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

OMD-190 - - - - Use This Part Number When Ordering

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