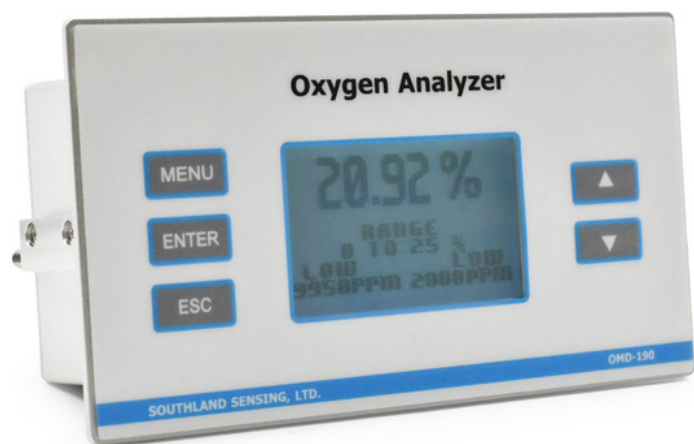


OMD-190 Oxygen Analyzer

Product Specification Sheet

Online Oxygen Analyzer, Panel Mount Package, Remote Sensor Housing



H6 KF-40
Sensor Housing



H3 Flow Through
Sensor Housing



Oxygen Sensor

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:	Display:	+/- 1% Full Scale Range*
Dimensions (Front):	Panel	LCD with Backlight
Cutout	Dimensions:	7.00"W x 3.75"H x 2.00" D
Enclosure:	Classification:	6.00"W x 2.85"H
Temperature	Rating:	Anodized Aluminum
Temperature Compensation:		General Purpose
Alarms:	Power:	Output
(Analog):	Communication:	Integral
		2 Adjustable w/ delay mode
		10 - 28 VDC or 100 - 240 VAC
		4 - 20mA (Isolated)
		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

Applications:

- Inert GloveBox 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 / PST: GPR-1900, GPR-2900

"Inquiry for Application Expertise"

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:
Input Power:
Current Draw:

10 - 28 V DC
100 - 240 V AC
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