

Online Trace Oxygen Analyzer w/ Integral Sample System



The OMD-677 is designed to measure trace oxygen in the sub 1 ppm region. The unit combines an advanced set of electronic features with our industry leading precision electrochemical oxygen sensor technology. The result is a highly reliable and cost effective design with an easy-to-use interface.

The analyzer comes with a 0 - 1 PPM full scale low range with a resolution of 0.001 ppm. The analyzer can also be configured for 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0-10000PPM and 0 - 25% in auto-range or manual-range mode.

The analyzer offers the user a digital communication output. This comes in the form of MODBUS RS485 RTU.

Alarm functionality comes in the way of 2 fully adjustable form C non-latching relay contacts. These can be configured as NO or NC and can be set as HIGH or LOW with optional delay mode. A power failure alarm is also standard and comes as a form C nonlatching relay contact.

The oxygen sensor used in the OMD-677 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 cell (TO2-133) is unaffected by other background gases such as H₂, He, or Hydrocarbons. The optional acidic cell (TO2-233) works 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.

Applications:

- Air Liquefaction and Separation
- Pure, Gaseous Hydrocarbon Stream Monitoring
- Gas Purity Certification
- Process Monitoring of Gaseous Monomers
- Semiconductor Manufacturing
- Protective Atmosphere Blanketing of Feedstock

0 - 1 PPM Low Range; 0 - 25% High Range

Resolution of 0.001 Parts-Per-Million Oxygen

Integral Sample System w/ Bypass Valve

Bi-Directional Communication Link

Extensive Electronic Features & Outputs

Panel Mount Configuration

Electrochemical Sensor Technology

Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Calibration:	Periodically
Alarms:	(2) Adjustable Relay Contacts (1) Power Fail Relay Contact
Analyzer Range:	0-1/10/100/1000ppm/25%
Range ID:	4 - 20 mA analog output 0 - 1 V DC analog output
Communication:	Bi-Directional MODBUS RS485 RTU
Output:	0 - 1V DC, 0 - 10V DC Isolated 4 - 20mA
Power:	100 - 240 VAC
Display:	Large with Backlight
Dimensions:	10.78 x 7.47 x 7.75 inch
Enclosure:	Brushed Stainless Steel
Weight:	13.0 lbs
Pressure:	0.1 - 50 PSIG
Flow Rate:	0.5 - 5 SCFH
Temperature:	0 to 50° C
Temperature Compensation:	Digital
Response Time:	T90 in 10 Seconds
Gas Connections:	1/8" Compression Tube
Sample System:	Flow Control, 4-way Sample Bypass Valve, Flow Indicator
Repeatability:	< +/- 1% of reading
Sensor Warranty:	12 months
Analyzer Warranty:	12 months

*Accuracy at constant conditions

Order Information:

Record Part Number with selected options in Blank Indicated Area of Form

Model Number:

OMD-677 Oxygen Analyzer

Selected Range

- 1
- PPM Configuration: 0 - 1 PPM, 0 - 10 PPM, 0 - 100 PPM, 0 - 1000 PPM, 0 - 25%
- 10
- PPM Configuration: 0 - 10 PPM, 0 - 100 PPM, 0 - 1000 PPM, 0 - 10000 PPM, 0 - 25%

Selected 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%
- 3
- Trace Analysis Standard (TO2-133): 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000 PPM 0 - 25%
- 4
- Trace Analysis Standard (TO2-233): 0 - 10ppm, 0 - 100ppm, 0 - 1000ppm, 0 - 10000 PPM 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%
- 9
- Hybrid Analysis (TO2-19): 0 - 1000 ppm, 0 - 10000 ppm, 0 - 25%

Gas Connections:

- 4
- 1/4" Compression Tube Fittings
- 6
- 6mm Compression Tube Fittings
- 8
- 1/8" Compression Tube Fittings

OMD-677 - - - Use This Part Number When Ordering

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