

Online Oxygen Purity Analyzer w/ Integral Sample System



The OMD-775 is designed to measure elevated oxygen levels (21% – 100%) for online applications. The unit combines an advanced set of electronic features with our industry leading precision electrochemical oxygen sensor technology. The analyzer also has built in temperature, the result is a highly reliable and cost effective design with an easy-to-use user interface.

The analyzer comes standard with a 0 – 100% full scale range with a resolution of 0.01%. The analyzer can also be configured by the end user in the field for suppressed ranges of 50 – 100%, 70 – 100%, 80 – 100% and 90 – 100%. The analyzer comes with the ability to auto-range through all five ranges, this is accomplished with the choice of a voltage or current analog output.

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

Alarm functionality is performed by 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.

The oxygen sensor used in the OMD-775 is based on the galvanic electrochemical fuel cell principal and is not influenced by vibration. All oxygen sensors are manufactured in house by Southland Sensing Ltd. under a strict quality program.

The analyzer is a cost-effective, yet similarly performing, alternative to paramagnetic oxygen sensors packaged in a 19" rack mount for easy installation and operation.

Applications:

- Air Liquefaction and Separation
- Gas Purity Certification
- Oxygen Monitoring of Medical Gases
- Ozone Generation PSA, VPSA
- Measurement in Wastewater Treatment Plants
- Alternative for Paramagnetic Oxygen Analyzers

0/50/70/80/90 - 100% Suppressed Ranges

Advanced Digital Temperature Compensation

Bi-Directional Communication Link

Extensive Electronic Features & Outputs

19" Rack 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:	0/50/70/80/90-100%
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
Resolution:	00.01%
Dimensions:	19.0 x 5.125 x 7.75 inch
Enclosure:	Anodized Aluminum
Weight:	13.0 lbs
Pressure:	0.1 - 50 PSIG
Flow Rate:	0.5 - 5 SCFH
Temperature:	0 to 50° C
Temperature Compensation:	Digital
Sensor:	PO2-1120 Oxygen Sensor
Sensor Life:	20 - 25 months @ 100% O2
Response Time:	T90 in 13 Seconds
Gas Connections:	1/8" Compression Tube
Sample System:	Flow Control, Flow Indicator
Repeatability:	< +/- 1% of reading
Sensor Warranty:	12 months
Analyzer Warranty:	12 months

*Accuracy at constant conditions