SOUTHLAND SENSING

OMD-640 Oxygen Analyzer

Product Specification Sheet

Portable PPM Oxygen Analyzer with USB Data Logging & Sample System

- 0 - 1 PPM Low Range; 0 - 25% High Range
- Large Backlit Display w/ User Friendly Menu
- Data Log via Removable USB Flash Drive
- Integral Swagelok Bypass Valve System
- Continuous Analysis during Charging
- Electrochemical Sensor Technology

The OMD-640 oxygen analyzer combines a rugged portable design with SSO2's precision oxygen sensors. The result is a highly reliable and cost effective design with easy-to-use user interface.

The analyzer comes with a 0 - 1 PPM full scale low range with a resolution of 0.001 ppm. A removable USB flash drive for data logging via .CSV (Excel) file format. With an 8GB USB Flash Drive, you can data log at 1 minute intervals for about 50 years before running out of storage. The low full scale range and flexibility to easily access data allows this analyzer to be unmatched in the market.

The display of the analyzer is designed to be used in direct sunlight. No need to bring a shade or other method to see the screen.

The oxygen sensor used in the OMD-640 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 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.

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Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Calibration:	Periodically
Analyzer Range:	0-1/10/100/1000ppm/25%
Output:	0 - 1V DC
Data Logging:	Removable USB Flash Drive
Battery Indicator:	Integrated into Large Display
Power:	Rechargeable Lead Acid Battery 100 - 240 VAC Adapter
Display:	Large with Backlight
Dimensions:	10.9 x 10.0 x 4.9 inch
Enclosure:	Anodized Aluminum
Weight:	8.0 lbs
Pressure:	0.1 - 50 PSIG
Flow Rate:	0.5 - 5 SCFH
Temperature:	0 to 50° C
Temperature Compensation:	Integral
Sensor:	TO2-133 Trace O2 Sensor
Response Time:	T90 in 6 Seconds
Gas Connections:	1/8" Compression Tube
Sample System:	Flow Control, 4-way sample/ Bypass Valve, Flow Indicator
Sensor Warranty:	12 months
Analyzer Warranty:	12 months

*Accuracy at constant conditions

Applications

- Pipeline leak detection
- Spot Checking Air Separation & Liquification
- Headspace Gas Analysis
- Beverage Grade CO2 Monitoring
- Heat Treating & Bright Annealing
- Inert Gas Welding of Exotic Materials

Optional Accessories

TO2-233	Oxygen Sensor (> 0.5% CO2 present)
CC	Carrying case with custom foam insert
CF	Coalescing filter with 0.1u filter
SP	Integral sampling pump
REG	Pressure Regulator
HT	High Temp Probe

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