

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 and a removable USB flash drive for data logging via .CSV (Excel) file format. With an 8GB USB Flash Drive, you can data log for 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.

Specifications

Accuracy:	< +/- 1% of Full Scale Range*
Analysis Range:	0-1/10/100/1000ppm/25%
Battery Indicator:	Integrated into Large Display
Calibration:	Periodically
Data Logging:	Removable USB Flash Drive
Dimensions:	10.9 x 10.0 x 4.9 inch
Display:	Large with Backlight
Enclosure:	Brushed Stainless Steel
Flow Sensitivity:	0.5 - 5 SCFH
Gas Connections:	1/8" Swagelok Tube Fittings
Output (Analog):	0 - 1V DC
Power:	Rechargeable Battery 100 - 240 VAC AC Adapter
Pressure:	Inlet, 0 - 50 PSIG
Response Time:	T90 in 10 Seconds
Sample System:	Flow Control, 4-way sample/ Bypass Valve, Flow Indicator
Sensor:	TO2-133 Trace O ₂ Sensor
Sensor Life:	20 - 25 months
Temperature:	0 - 50 deg C
Temperature Compensation:	Integral
Warranty:	12 months
Weight:	11.75 lbs

*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

- ENC-640 Carrying case with foam insert
- CF-640 Coalescing filter with 0.1u filter
- PP-640 Integral sampling pump
- TO2-233 Oxygen Sensor (> 0.5% CO₂ present)