

# 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 - 1,000 PPM full scale low range. 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 H<sub>2</sub>, He or Hydrocarbons. The acidic cell (TO2-233) works well when acid gases such as CO<sub>2</sub> or Natural Gas are present.

The sensors are self-contained and minimal maintenance is required - no need to clean electrodes or add electrolyte.

### Applications

Pipeline leak detection

Spot Checking Air Separation & Liquification

Headspace Gas Analysis

Beverage Grade CO<sub>2</sub> 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% CO<sub>2</sub> present)

### 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" Compression Tube                                       |
| Output (Analog):          | 0 - 1V DC                                                   |
| Power:                    | Rechargeable Battery<br>100 - 240 VAC AC Adapter            |
| Pressure:                 | Inlet, 0 - 50 PSIG                                          |
| Response Time:            | T90 in 7 Seconds                                            |
| Sample System:            | Flow Control, 4-way sample/<br>Bypass Valve, Flow Indicator |
| Sensor:                   | TO2-133 Trace O <sub>2</sub> 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