



OxySense

OxySentry System

Real Time, In-line MAP Oxygen Monitoring and Control System

OxySense® OxySentry System

The OxySense® OxySentry System is the real-time, in-line MAP oxygen monitoring and control system, suitable for both batch process MAP Chamber Line and form, fill and seal lines. The OxySentry System allows the user to monitor processing and document conditions 100 percent of the time. Its' near instantaneous response time (<.1 second) means quick response and reduced loss from substandard fill atmospheres.

Key Advantages of the OxySentry System include:

- Direct measurement
- Real time information
- Process documentation
- Rapid cycle time
- Packaging lab proven technology
- Unmatched lab accuracy, line dependability

For New or Existing MAP Lines

The OxySentry System interfaces seamlessly with line controllers and PLCs on new or existing lines. It may also be connected directly to the plant network for data logging, processing documentation and tracking. Additionally, the OxySentry System may be configured as a direct controller to sound an alarm and/or shut down the line if a reading is recorded outside the acceptable range.

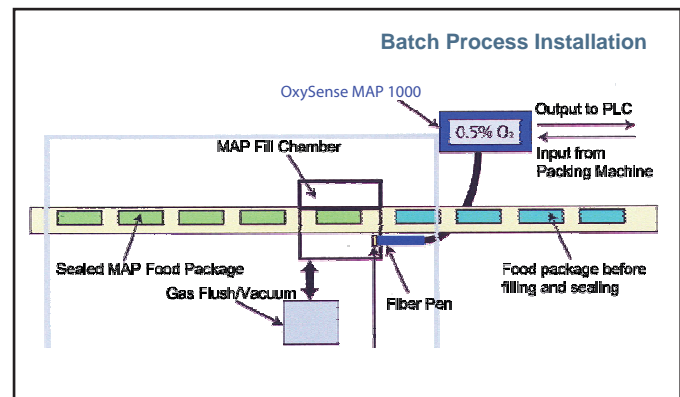
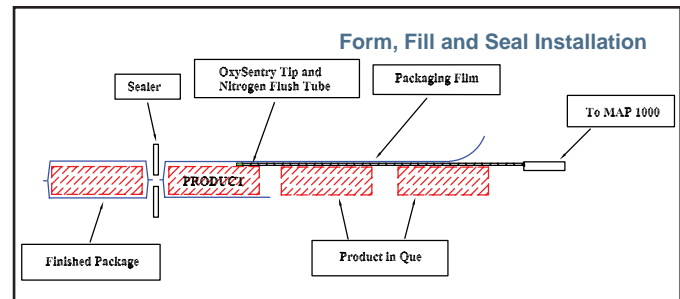
Features

- Real time measurements
- No samples or pumps
- Does not consume oxygen
- Minimal maintenance
- Operator-friendly software interface
- Automatic data logging
- Integrated temperature compensation
- Independent of pH and salt
- Non-invasive measuring technique



Applications

- Monitor fill chamber of MAP batch equipment
- Continuous monitoring of form, fill and seal machines
- Continuous flow stream monitoring



in-line oxygen monitoring/control system

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The OxySense® OxySentry System:

The OxySentry System consists of two major components:

- MAP 1000 Control Unit
- OxySentry O₂ Passive Oxygen Sensor

The MAP 1000 Control Unit analyzes the optical signal and converts the signal into oxygen concentration data. The data can be:

- Displayed on a screen (which can be integrated into the Control Unit or remote mounted)
- Stored in the Control Unit
- Converted to digital or analog output:
 - Sent to a line controller as an alarm or shut down signal
 - Transmitted to the PLC

The OxySentry Sensor is application configured for each installation. It is connected to the MAP 1000 via an installation specific fiber optic connector.

The OxySentry System can be set to provide continuous monitoring or triggered to take a measurement at a set interval or via a signal from the packaging machine.

Custom MAP Installation, Proven Components

Based on the laboratory-proven OxySense® technology the OxySentry System uses standard and proven components to provide a custom installation. The system includes a factory floor-hardy MAP 1000 Control Unit, an industrial touch screen display and the revolutionary OxySensor sensing unit which is customized to the requirements of each installation.

Specifications

	In Gas	In Liquid
Operating Range	0-30%	0-100% saturation O ₂
Detection Limits	0-03%(300 ppm)	15 ppb (15u/L)
Accuracy	Accuracy is 5% of the reading w/o individual calibration for a time series of two months.	
Response Time	1/10 Second	
Operating Temperature	32-140°F (0-60°C) Power 90-250V AC (47-63Hz)	
Outputs	24 VDC	
External Connections	USB Ethernet	

About OxySense, Inc.

OxySense® manufactures proprietary passive, non-invasive oxygen measurement systems tailored to meet the needs of the food, beverage, pharmaceutical, bio-medical, environmental, packaging, wine and electronics industries.

Among the many instruments and accessories, the OxySense® 210T and 4000B stand apart. The OxySense® 210T is the only non-invasive R&D and QC testing system available, while the OxySense® 4000B Portable Oxygen Analyzer is a self-contained system with expansion capabilities. The OxySentry System is designed to meet the requirements of high-speed packaging lines in MAP environments.

