



# OxySense

## OxySense® 210T Oxygen Analyzer System

### Non-invasive

#### (Non-destructive) Technology

The OxySense® 210T Oxygen Analyzer system measures oxygen concentration utilizing a non-invasive, optical methodology enabled by the O<sub>2</sub>xyDot®, a proprietary fluorescent oxygen-sensitive sensor. It is independent of pH and salt concentration, and is not affected by other gases. The system does not consume any oxygen.

### Easy-To-Use

- Pre-calibrated sensors (O<sub>2</sub>xyDot®)
- Multifunctional software
- Automatic or on-demand readings
- Automatic data logging in Excel spreadsheet compatible format
- Standard USB 2.0 interface

### System Components

The OxySense® 210T system comes ready-to-use, with everything needed to make measurements. Simply load the software on your computer and connect the 210T using the USB 2.0 port. The basic system includes:

- OxySense® 210T Instrument
- EaseAlign reader-pen assembly with integrated infrared temperature sensor
- OxySense® 210T operating software and documentation CD
- O<sub>2</sub>xyDot® application kit, including vacuum pen/applicator and extension
- USB 2.0 Data Cable

### Features

- Non-invasive (non-destructive) measuring technique
- Measures oxygen in both headspace and dissolved oxygen in liquid
- Automatic data logging
- Integrated temperature compensation
- User-friendly interface
- Can be used in oil, water and air
- Independent of pH and salt
- Does not consume oxygen



### Benefits

- Greatly improve testing time results through real time measurement
- Reduce product quality risks through more accurate results
- Diminish product waste by performing multiple measurements on the same package
- Eliminate contamination through the use of non-invasive technology
- No more guessing or statistical probabilities – now you can know what's inside

### Uses

- Provides accurate measurement results for:
  - Shelf life studies
  - Permeability analyses of packaging materials and films
  - Oxygen scavenging performance
  - Quality control and Quality Assurance
  - Research and Development
- Data can be imported into PC applications for thorough data analysis
- Offers oxygen solutions for laboratory, shop floor and manufacturing environments

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## Applications

### Packaging

- Oxygen measurement in packages and bottles
- Packaging material evaluation and comparative testing
- Permeation testing of closures, containers and films
- Research & Development

### Food & Beverage

- Quality assurance and quality control
- MAP and Bottling Line start up
- Oxygen scavenging performance

### Pharmaceutical

- MAP package evaluation and control
- Quality assurance and quality control
- Blister pack testing
- Oxygen detection in anaerobic environments

### Bio-Medical

- Animal tissue studies
- Real-time monitoring of oxygen levels in anaerobic environments



## OxySense® 210T Oxygen Analyzer

The OxySense® 210T is ideally suited for Research & Development and Quality Control programs. It is an easy-to-use, accurate and low-cost method for conducting leak testing of modified atmosphere packaging (MAP), vacuum packaging, oxygen scavenging, closure seal, PET bottle and product shelf-life studies.

## Accessories Available for Enhanced Testing

The OxyProbe Assembly consists of an adaptor and a penetration needle with an embedded O<sub>2</sub>xyDot®. The OxyProbe attaches to the standard reader pen and allows the user to perform invasive testing with their OxySense® system. The system does not extract a sample, but rather measures oxygen directly in the package.

## Specifications

	In Gas	In Liquid
Operating Range	0-30%	0-100% saturation O <sub>2</sub>
Detection Limits	0.03%(300 ppm)	15 ppb (15u/L)
Accuracy	Accuracy is 5% of the reading even at low levels of oxygen, (effectively the accuracy improves at lower oxygen concentrations)	
Response Time	<5 Second	
Enclosure size	3.25"x6.125"x6.25" (8.2x15.5x15.8 cm)	
Operating Temperature	32-140°F (0-60°C)	
Power	100V-240V AC (50/60 Hz)	

## 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.

