

# OxySense® Model 8100e

Oxygen Transmission Rate Analyzer



Latest coulometric  
sensor technology  
ASTM D3985  
compliant

High sensitivity

Widest test range

Easy to operate

Fully automatic

Expandable  
Satellites

## Applications:

Barrier Film  
PET Bottles  
Containers  
Canisters  
Bags  
Flexible pouches

## Accurate results - High value

Systech Illinois - Instrumental in innovation and cost effective solutions.

Setting the new bench mark in oxygen transmission rate measurement instruments, the All-NEW OxySense® instruments incorporate the latest in coulometric sensor technology with high sensitivity and the widest test range. The instruments are simple to operate, lower testing costs, and increase productivity.

### What's new:

- Completely new design
- High sensitivity, wide range eMetric™ coulometric sensor
- Easy testing, just load the film and press a button to start
- Large touch screen providing easy operation and display of results
- Film loading made simple and effective with the Q-Seal™ gas free cell closure system
- Automatic relative humidity and temperature control
- "Test Condition Matrix" (TCM™) feature enabling you, with the touch of a single button, to test a sample at up to ten different conditions of temperature and relative humidity.
- Expandable up to 32 cells

The OxySense 8100e is designed to be expandable and lower your testing costs. Systech Illinois is the only major developer of transmission rate test instrumentation to offer satellite expansion. The satellites can be configured to meet your precise testing needs, allowing you to cost effectively add lab capability as needed while continuing to lower your "cost per test".



FM 583777



An Industrial Physics Company

## Choose the right sensor for your OTR application to meet ASTM D3985

The eMetric high sensitivity wide range coulometric sensor offers a range from 0.01 to 432,000 cc/(m<sup>2</sup> · d).

### Easy operation

The full size interactive touch screen makes working with instrument easy and intuitive. To start a test just enter conditions and press start.

### Networking

This system runs on a full Windows® operating system enabling to safe, secure operation and network connectivity.

### Auto-Stop™

Prevents sensor damage due to excessive levels of oxygen - feature extends sensor life.

### Fast wet to dry test conversion

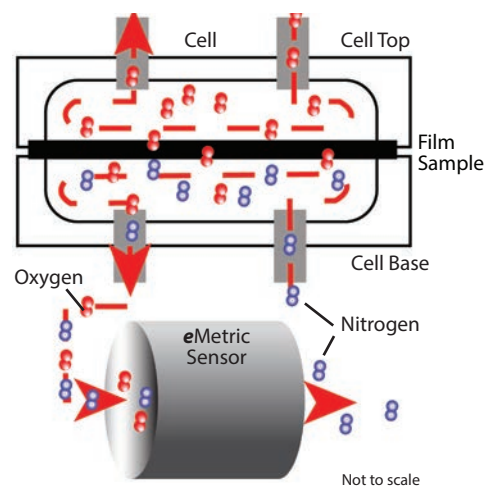
Change from wet to dry test in just minutes.

### Accurate validation of the instrument

Obtained in just a few hours using third party certified gas.

### Remote, Internet based support

Systech Illinois can access your instrument (with your permission) to diagnose and repair system errors without the cost and time involved with an on-site visit.



Coulometric sensors perform according to Faraday's Law.

Systech Illinois' eMetric sensor analyzes 100% of the oxygen passing through the sensor resulting in unequivocal conformation of ASTM D3985.

### Industry Standards:

- ASTM D3985
- ASTM F1927
- DIN 53380-3
- JIS 7126
- ASTM F1307
- ISO CD 15105-2

Tablet computer shown is not included. Systech Illinois can supply the appropriate tablet if requested or the user can provide their own. Contact Systech Illinois for the required specifications of the computer system.

## OxySense Model 8100e Technical Specifications

Sensor	cc/(m <sup>2</sup> · day)	cc/(100 in <sup>2</sup> · day)	cc/(pkg · day)	Resolution cc/(m <sup>2</sup> · day)	Repeatability cc/(m <sup>2</sup> · day)
E-Metric Unmasked	0.01 to 432,000	0.0006 to 28,000	0.00004 to 2000	0.005	0.005 or 1%

### Test Conditions

Test Temperature Range	10°C to 40°C ± 0.1°C
Controlled RH Testing Ranges	Films- Carrier and Test gas: 0% to 90% ± 2% Packages - Ambient or controlled by chamber

All content and specifications subject to change

OxySense is a registered trademark of OxySense  
Windows is a registered trademark of Microsoft Corporation

### Systech Illinois - Instrumental in customer satisfaction

Over the last five years, Systech Illinois has maintained the highest customer ranked customer service among all manufacturers of permeation test instruments. These rankings are determined on Helpfulness, Politeness, Efficiency and Friendliness.

Our 5 year average Customer Service Rank



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