

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**

Accurate results - High Value

Systech Illinois - Instrumental in innovation and cost effective solutions.

Setting the new benchmark in oxygen transmission rate measurement instruments, the All-NEW OxySense® Model 8100e oxygen transmission rate analyzer incorporates the latest in coulometric sensor technology with high sensitivity and the widest test range. It is simple to operate, reduces testing costs, and increases 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.

Applications:

**Barrier Film
PET Bottles
Containers
Canisters
Bags
Flexible pouches**



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

The eMetric high sensitivity wide range coulometric sensor offers a range from 0.05 to 432,000 cc/(m² · 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.

Anti-Surge™

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

Fast wet to dry test conversion

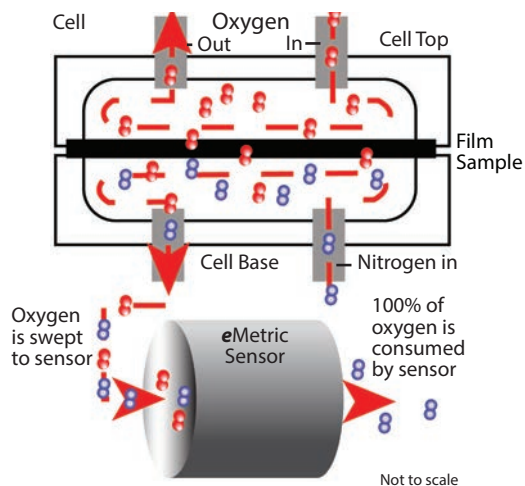
Change from wet to dry test in just minutes.

Accurate validation of the instrument

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

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 of on-site visit.



Coulometric sensors perform according to Faraday's Law.

Oxygen enters the test cell (top section) and permeates through the film sample into the lower section where nitrogen sweeps it to the sensor. Systech Illinois' eMetric sensor analyzes 100% of the oxygen resulting in unequivocal conformation to ASTM D3985.

Industry Standards:

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

OxySense Model 8100e Technical Specifications

Sensor	cc/(m ² · day)	cc/(100 in ² · day)	cc/(pkg · day)	Resolution cc/(m ² · day)	Repeatability cc/(m ² · day)
E-Metric Unmasked	0.05 to 432,000	0.0006 to 28,000	0.00004 to 2000	0.005	0.03 or ±1% whichever is greater

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 external environmental chamber

Our 5 year average Customer Service



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