



# Oxygen Transmission Rate Analyzer

# OxySense® Model 8101e

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<sup>™</sup> 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<sup>™</sup> 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

# 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/(m $2 \cdot d$ ).

## **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

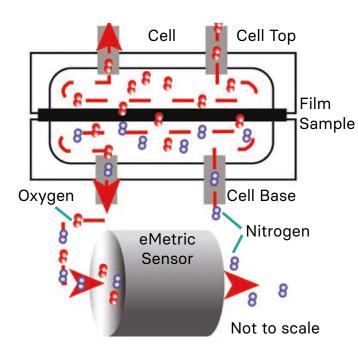
Systech Illinois can access your instrument (with your permission) to diagnose and repair system errors without the cost and time involved with an on-site visit.







# 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

### **Features:**

- 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

# **Technical Specification:**

E-Metric Unmasked Range	Range
cc/(m2 • day)	0.05 to 432,000
cc/(100in2 • day)	0.003 to 28,000
cc/(pkg • day)	0.00025 to 2000
Resolution cc/(m2 • day)	0.001
Repeatability cc/(m2 • day)	0.015 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

## **Contact Details**

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