rycobelgroup

Measure Improve Service

OXYGEN TRANSMISSION RATE ANALYSER 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™ 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 8101e 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".

Features

- Latest coulometric sensor technology ASTM D3985
- compliant
- High sensitivity
- Widest test range
- Easy to operate
- Fully automatic
- Expandable Satellites

Standards

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

Applications

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

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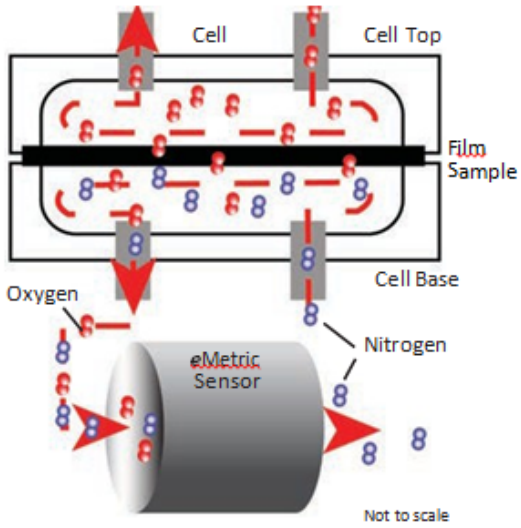
- Choose the right sensor for your OTR application to meet ASTM D3985
  The eMetric high sensitivity wide range coulometric sensor offers a range from 0.05 to 432,000 cc/(m2 · d).
- Easy operation
  The full size interactive touch screen makes working with instrument easy and intuitive. To start a test just enter conditions and press start.
- Networking
  This system runs on a full Windows® operating system enabling to safe, secure operation and network connectivity.
- 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 pass- ing through the sensor resulting in unequivocal conformation of ASTM D3985.

Technical specifications

- Sensor: E-Metric unmasked
- 0.05 to 432,000 cc/(m2 • day)
- 0.003 to 28,000 cc/(100 in2 • day)
- 0.00025 to 2000 cc/(pkg • day)
- Resolution cc/(m2 • day): 0.02
- Repeatability cc/(m2 • day): 0.02 or 1%

Test conditions

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