rycobel

Oxygen Transmission Rate Analyzer OxySense® Model 8102

The OxySense® 8102 analyzer measures oxygen transmission rate and incorporates the latest in coulometric sensor technology with high sensitivity and wide test range. The instrument is simple to operate, designed to lower testing costs, and increase productivity.

Dry testing conditions

This instrument is ideal for users that want to test oxygen transmission rates of barrier films, PET bottles, Containers, Canisters, Bags and Flexible pouches in ambient lab conditions or at specific RH conditions using environmental chamber.

Advanced and long-life sensor technology

Our high sensitivity, wide range e-Metric coulometric sensor technology has a long service life – lasts twice as long as the competition.

Easy operation

Intuitive Windows based software that can be run on any commercially available Desktop, Laptop or tablet computer.

Technical specifications

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 - Dry or 100% RH with sponges
  - Packages - Ambient or controlled by chamber

Features & Benefits

- Test films at dry or 100% RH conditions (relative humidity)
- Tests packages at ambient lab conditions or precise temperature and RH using environmental chamber
- Proprietary Long Life "e-Metric", coulometric sensor technology,
- Long life sensor – lasts twice as long as competition
- ASTM D3985 and ASTM F1307 compliant
- Large test range of 0.05cc/m2 day – over 400,000cc/m2 day
- Computer controlled temperature settings
- Anti-surge protection against exposing the sensor to large amounts of oxygen & extends sensor life
- Does not require expensive nitrogen/hydrogen mixed gas
- Advanced software features
- Industry Standards
  - ASTM D3985
  - ASTM F1307
  - ASTM F1927
  - DIN 53380-3
  - ISO CD 15105-2
  - JIS 7126

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