

# OX-TRAN<sup>®</sup>

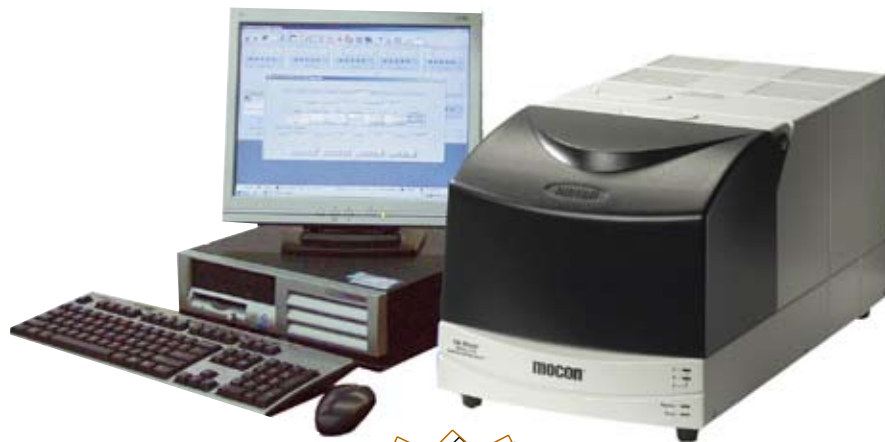
## Model 2/10

A Cost Effective System for Oxygen Transmission Rate  
Testing of Flat Films and Finished Packages

The **OX-TRAN<sup>®</sup> Model 2/10** is the latest value system from mocon using a standard calibration-dependent, electrochemical (non-coulometric\*) oxygen sensor which reliably measures oxygen barrier in a range of 0.1 - 144,000 cc/m<sup>2</sup> - day at precise temperatures and relative humidities. \*For instruments with coulometric sensors visit [www.mocon.com](http://www.mocon.com)

### Features

- Standard electrochemical (non-coulometric) oxygen sensor
- Includes 2 N.I.S.T. traceable calibration films (which are critical with calibration dependent sensors to assure accuracy of results)
- Utilizes N.I.S.T. recommended two pressure method of relative humidity generation. In addition, relative humidity sensors are located at the film to verify **precise RH**
- Oxygen transmission rate sensor is flow and pressure compensated for improved accuracy
- User friendly Windows<sup>®</sup> based software utilizing WinPerm<sup>™</sup> and/or PermNet<sup>™</sup>
- Equipped with two 50 cm<sup>2</sup> cells
- Easily expandable up to 20 cells with one sensor for each two cells
- Instrument is ETL listed, conforms to UL Standard 61010-1 is certified to CSA 61010-1 and complies with CE Product Safety EN 61010-1



ASTM F-2622  
and CFR21 Part 11  
Compliant

The logo for mocon, featuring a red semi-circular arc above the word 'mocon' in a bold, black, sans-serif font.

Over 40 Years of  
Permeation Experience  
Made in USA

# Specifications for the OX-TRAN<sup>®</sup> Model 2/10

## Technical

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### O<sub>2</sub> TR Test Range

Low Test Range: 0.1 cc/m<sup>2</sup> - day with 100% oxygen and carrier gas flow of 10cc/min

Upper Test Range: 144,000 cc/m<sup>2</sup> - day with 21% oxygen and carrier gas flow of 100cc/min

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### Sensor

Standard Calibration-Dependent Electrochemical Oxygen Sensor

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### Test Temperature Range

10 - 40 ° C Films and Packages (optional package environmental chamber available)

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### Precise RH Control (both sides of film)

Dry, 35 - 90%

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### Test Sample Sizes:

Films: 50 cm<sup>2</sup>

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### Flow

Carrier gas flow of 10 cc/min or 100cc/min

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### Resolution

0.01 cc/m<sup>2</sup> - day

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### Repeatability

± 0.05 cc/m<sup>2</sup> - day

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### ASTM

The **OX-TRAN<sup>®</sup> Model 2/10** complies with **ASTM F-2622**, but does not comply with ASTM D-3985 (only permeation systems containing the MOCON Coulox<sup>®</sup> coulometric sensor comply with this standard like the OX-TRAN<sup>®</sup> Model 2/21, OX-TRAN<sup>®</sup> Model 2/61 and OX-TRAN<sup>®</sup> Model 702).

## Electrical

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### Voltages

100, 120, 220 or 240 VAC ± 10%

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### Frequencies

50/60 Hz

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