



# 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 utilizing 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.

## Features

- Standard electrochemical (non-coulometric) oxygen sensor
- 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
- Includes 3 NIST traceable calibration films (which are critical with calibration dependent sensors to assure accuracy of results)
- 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
- Oxygen transmission rate sensor is flow and pressure compensated for improved accuracy
- Easily expandable up to 20 cells with one sensor for each two cells
- Instrument is ETL listed, conforms to UL Standard 1262, is certified to CAN/CSA C22.2 No. 151, and complies with CE Product Safety

<sup>®</sup>  
**MOCON**



Modular Design



Validation Services  
Now Available

*The Gas Detection, Analysis,  
and Control Specialists*

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**mocon<sup>®</sup>**

Over 40 Years of  
Permeation Experience  
Made in USA

# Technical Specifications on the OX-TRAN® Model 2/10

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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 with carrier gas flow of 10cc/min

Upper Test Range: 144,000 cc/m<sup>2</sup> - day with 21% oxygen with 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, 30 - 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® Model 2/10** does not comply with ASTM Standard D-3985 (only permeation systems containing the MOCON Coulox® coulometric sensor comply with this standard like the OX-TRAN® Model 2/21, OX-TRAN® Model 2/61 and OX-TRAN® Model 702). However, the OX-TRAN® Model 2/10 will comply with a new oxygen standard being developed by ASTM for all calibration dependent, non-coulometric oxygen sensors.

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