

NEW

OX-TRAN[®] Model 2/61

Oxygen Transmission Rate Test System



- **Test either flat films or finished packages**
- **Test of up to six samples simultaneously on a single module**
- **Windows[®] based software interface**

Only MOCON systems comply with the following standards:

ASTM D-3985 films
ASTM F-1927 films
DIN 53380 films
JIS K-7126 films
ASTM F-1307 packages
ISO CD 15105-2

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mocon[®]
Over 35 Years of
Permeation Experience

System and software that speeds O₂ permeation analysis

High Performance Fast Answers, Simple Operation...

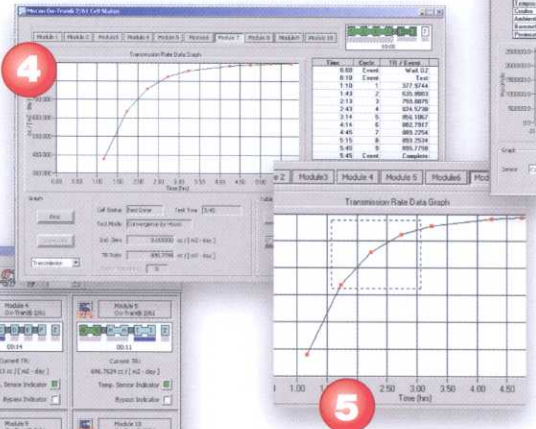
Lowest cost with highest precision **Low Cost!**



Quickstart: Simply choose from standard ASTM, ISO, JIS or user-defined test conditions and immediately begin testing...

Thickness List: For more accurate results, enter up to five sample thickness measurements. The system will automatically calculate an average that will be used in the test.

Data: View testing in realtime, both graphically and via data table.



Main Screen: Once started, monitor testing progress of up to ten modules or sixty cells simultaneously.

Zoom: Analyze data anywhere on the transmission rate curve in greater detail with the new zoom feature.

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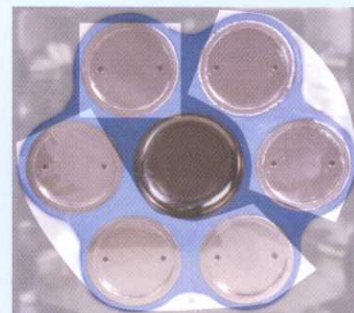
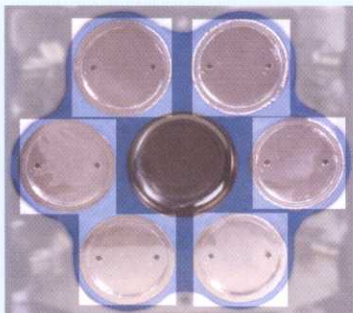
O₂ Permeation
Test System

6 test cells are designed for maximum throughput.

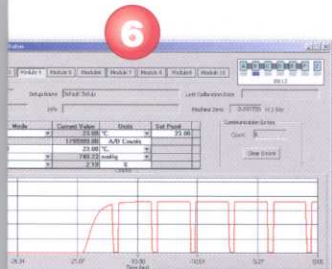
Six separate samples may be run simultaneously for maximum throughput and efficiency.

All cells may be combined to provide greatest sensitivity for good barrier materials.

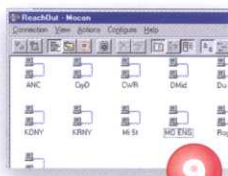
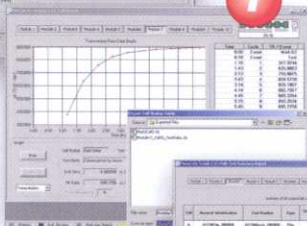
Testing may be configured in any cell combination for maximum throughput, sensitivity and flexibility.



Parameters: For further analysis, monitor the status of the sensors (Coulx[®], temperature, barometric pressure, relative humidity) at any point of a test.



Export: Test results are automatically converted to Excel[®] format for export and further data manipulation.



Reachout: Need help?...Use remote diagnostics...let MOCON technicians diagnose your situation immediately.

Summary: Print or view a summary of all testing results.

User friendly, quality driven operation:

- Windows[®] 2000 operating system
- User selectable sensitivity
- Precise RH & temperature measurement and control
- No extrapolations
- Automated sequencing of temperatures and samples. No operator involvement
- Barometric pressure compensation
- NIST traceable calibration films

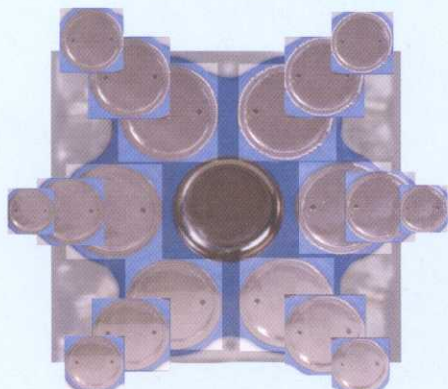
Also available:

- Optional package testing capability on all test cells
- Software for early prediction of permeation values
- Software for P, S, D calculation
- MOCON service and support

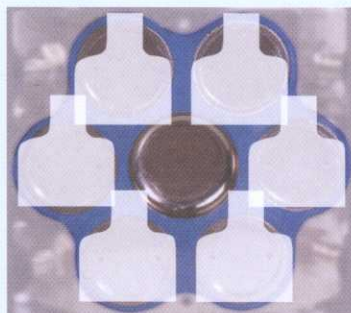
With all the technology and support you'd expect from a MOCON system:

- Over 35 years of permeation innovation
- Highest sensitivity coulometric sensor
- CE, ETL, UL and CSA certifications
- Proven accuracy with NIST traceable systems and calibration films
- ASTM accepted protocol
- Systems and service in over 60 countries

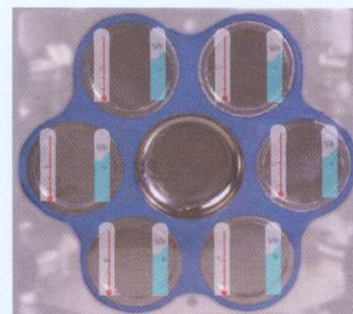
Given their efficiency, simplicity and ease of operation, these systems are perfect in production and QA/QC environments.



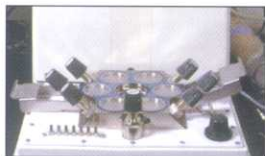
With the optional package adaptor, six packages may be tested simultaneously.



Temperature and Relative Humidity (RH) are monitored directly at the test site which is critical for accurate results which reflect real world conditions.



Easy to Use



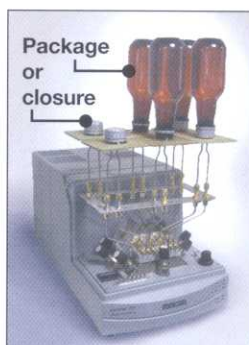
These systems have been designed for easy sample preparation and mounting.

Real World RH



Digital pressure and flow controls allow for simple "set and forget" relative humidity generation. A single setting achieves critical "real world" RH conditions quickly and precisely with minimal operation involvement.

Package Testing



Package testing in accordance with ASTM F-1307

Expandable to 60 Test Cells



Linking modules allow central control of up to 60 samples at a time while throughput is maximized with an individual sensor in each module.

Sample preparation tools.



Product Information

OTR Test Range:

One Cell: 0.5 – 1000 cc/m² • day (0.03 – 65.0 cc/100 in² • day)

All Cells Combined: 0.1 – 200 cc/m² • day (0.006 – 13.0 cc/100 in² • day)

Test Temperature Range: 20C to 65C (68°F – 149°F)

Controlled RH Testing:

Films: 35 to 90%, 100% RH (Oxygen Side Only)

Packages: Ambient or Controlled RH (environmental chamber not included)

Test Sample Area: 10cm² to 60 cm²

Test Cells per Module: 6 test cells

Expandability: Ten modules (60 test cells)

Package Adapter Head (optional)

Automatic Digital Barometric Pressure Compensator (optional)

Operating System: Windows® 2000

NIST Traceability

MOCON instruments are manufactured traceable to NIST (National Institute of Standards and Technology) and come with a set of two NIST Traceable Calibration films. These films allow for calibration in the range of desired testing assuring greater precision and accuracy of test data. While the Coulox® Sensor is an intrinsic or absolute sensor that does not require calibration, calibration films ensure the entire system is performing to the highest MOCON precision and accuracy standards.

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MOCON Commitment

The new system is another example of MOCON's 35 year commitment to innovation and quality in the design of permeation testing systems for barrier material and package assessment.

Technical Support & Service

MOCON maintains an applications and testing laboratory to assist customers in realizing the full potential of their MOCON instrument. Seminars and intensive training classes are held for those interested in maximizing their understanding of the systems, technology, and operating procedures. Call your MOCON representative for more information on these programs or for a system quotation.

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