

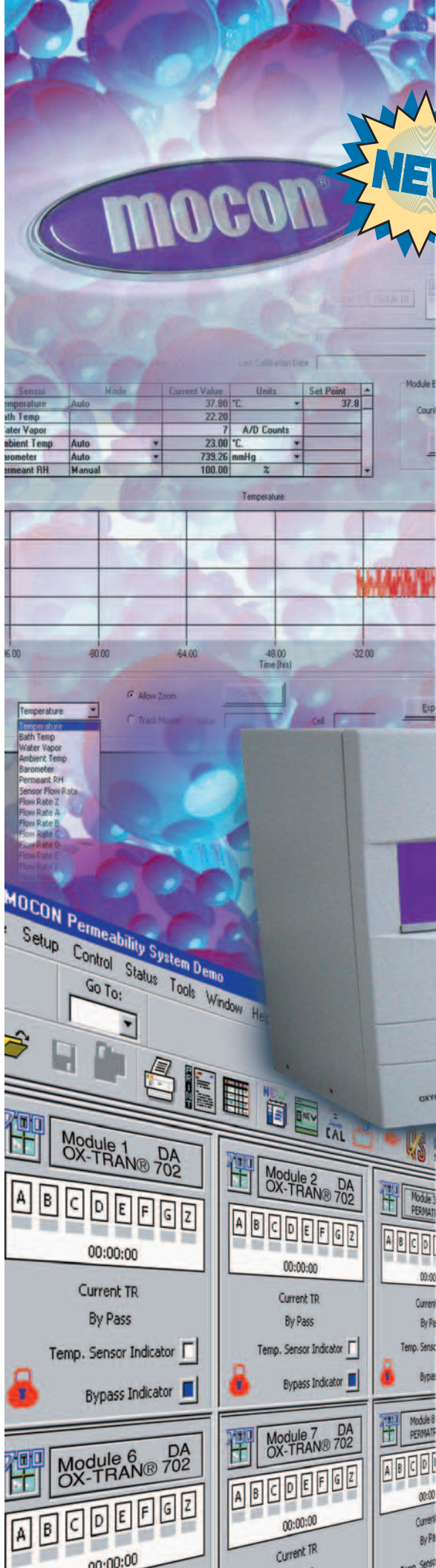
Test barrier materials for O₂ permeability



OX-TRAN® Model 702

Oxygen Transmission Rate Test System

- Test up to seven films or packages in any combination simultaneously.
- Software so responsive, and system design so revolutionary that your O₂TR testing will immediately become more efficient!



Validation Services
Now Available



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

Made in USA

mocon[®]
Over 35 Years of
Permeation Experience

The OX-TRAN[®] Model 702 Oxygen Transmission Rate Test System incorporates MOCON's proprietary and improved COULOX[®] coulometric detection sensor*, 7 independently operated test cells, electronic flow control and simple-to-use Windows[®]-based software.



*This one-of-a-kind sensor follows Faraday's Law meaning that it is a primary, absolute sensor not dependant upon calibration for results. Only in this way is it possible to measure minute amounts of oxygen transmitting through a barrier *accurately*.

The OX-TRAN Model 702 is the latest innovation in Oxygen Transmission Rate (OTR) testing, incorporating the finest in technology while setting a new standard for accuracy, throughput and ease of use.

The simple design is ideal for quality control as well as research and development. The OX-TRAN Model 702 incorporates a handy QuickStart feature allowing an operator to begin testing with only four clicks of the mouse! Security features to protect critical test set-ups and control multiple-user situations are standard.

The Model 702 complies with ASTM D-3985, F-1927 and F-1307, is certified traceable to NIST and is CFR21 Part 11 compliant. These, plus optional validation services, certification services, service contracts and use of only the highest quality components ensure you will meet all regulatory requirements and that you can trust the results on which your critical business decisions are made.

Unique Cell Design

The advanced pneumatic push-button test cells are designed to accommodate standard 50 cm² samples. The removable cell structures allow for easy sample preparation while the design includes improved surface finish and Ni-chrome plating for durability. With seven independently controlled test cells included, it is possible to run three sets of duplicate samples while simultaneously allowing for one user-provided reference material.

PERMATRAN-W Model 702 Features:

- Seven-50cm², horizontally mounted, pneumatically controlled and removable test cells, similar to our older OX-TRAN Model 1000 and 10/50.
- High sensitivity MOCON Red Coulox sensor
- Comprehensive and "operator friendly" Windows 2000 based software interface
- Automatic electronic flow control
- Film and package testing in any combination
- Easy sample preparation



"Destined to become another industry workhorse like the OX-TRAN 1000 and OX-TRAN 10/50 before it, the Model 702 provides more testing capability with a huge advancement in ease of operation... this is a great value!"

The Model 702 software is absolutely state-of-the-art combining the best in operator friendliness, flexibility in test design and new testing features useful for data analysis.

The Model 702 incorporates automatic flow control set from the keyboard...

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

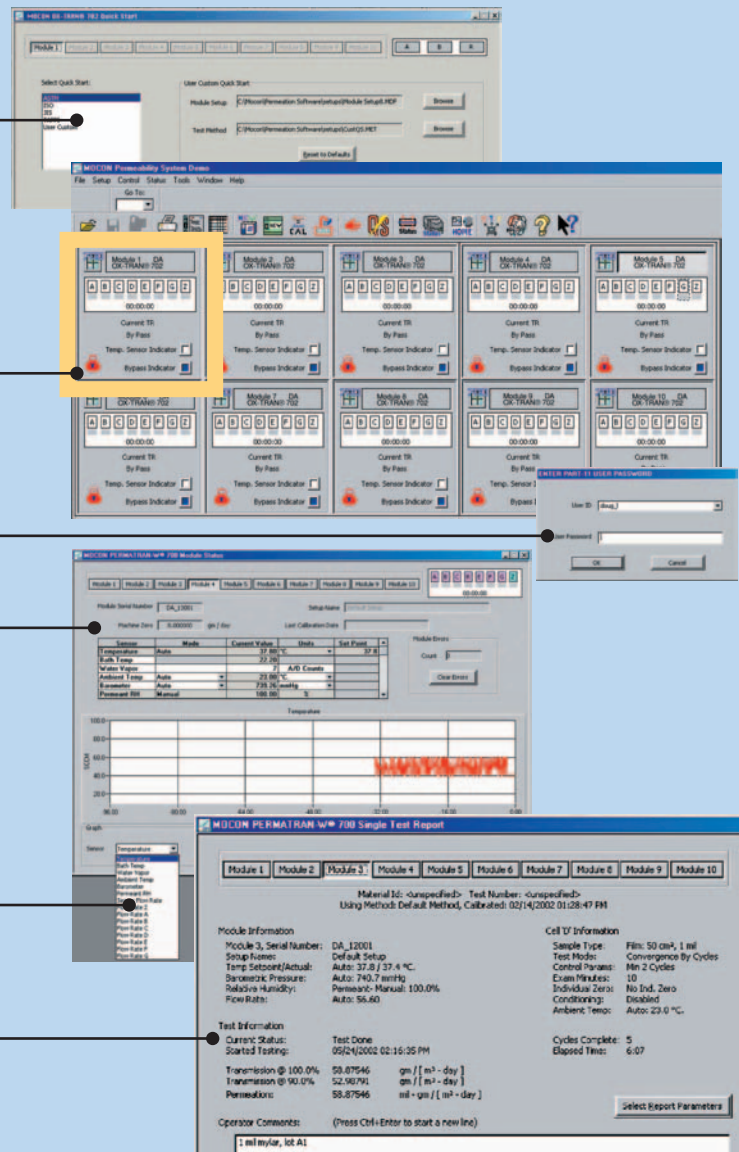
CFR 21 Part 11 compliant – this optional feature requires operators to log in, (🔒 indicates locked) using their personal password, to operate the system (🔓 indicates unlocked). A record keeps track of users and all information related to testing performed.

With 7 independently operated cells, it is possible to test 3 sets of duplicates and still designate 1 cell for a user provided reference.

Module status screen allows for monitoring of the temperature, COULOX oxygen, barometric and relative humidity sensors before, during and after testing.

Detailed individual test reports, as well as summary module test reports, capture not only test results but also comprehensive test and module set-up information.

Sensor	Mode	Default Value	Units	Set Point
Flow Rate A	Auto		SCCM	50.0
Flow Rate B	Auto		SCCM	50.0
Flow Rate C	Auto		SCCM	50.0
Flow Rate D	Auto		SCCM	50.0



Cell Features

- Cell clamping is pneumatic with pushbutton actuation
- Cell temperature is precisely maintained by a computer controlled external bath for sub-ambient and elevated temperature testing
- Flow control to each cell is electronically set via the keyboard
- Cells are designed to accommodate package testing in addition to flat films



OX-TRAN[®] Model 702

**Oxygen Transmission Rate
Test System**



Product Information

OTR Test Range: (see Note 1)

Test Temperature Range: 5C to 50C with computer controlled bath

Relative Humidity Conditions: Dry

Sensor: Red COULOX Sensor

Test Sample Size:

Films: 4.25 in. x 4.25 in. (10.8 cm x 10.8 cm)

Packages: Up to 3 liters per package

Number of Test Cells: Seven-50cm²

Expandable up to 10 modules: (70 test cells)

Automatic Temperature Control: (Standard)

Computer, Monitor, Printer and WinPerm Permeability Software (Standard)

Operating System: Windows[®] 2000

Automatic Digital Barometric Pressure Compensator (optional)

This instrument is ETL listed, Conforms to UL Standard 1262, is Certified to CAN/CSA C22.2 No. 151, and complies with CE Product Safety, Electromagnetic Emission & Susceptibility requirements.

Also Available:

PERM-NET[™] 2000 software system offering the ability to collect, view, store, access and analyze permeation data from all your MOCON systems, controlled from a central PC!

Note #1

Sample	cc/m ² /day	cc/100 in ² /day	cc/pkg/day
Unmasked	0.01 to 200	0.0007 to 12.90	0.00005 to 1.0
Masked	0.1 to 2000	0.007 to 129	

NIST Traceability

MOCON instruments are manufactured traceable to NIST (National Institute of Standards and Technology) and come with a set of two NIST Traceable system check films.

MOCON Commitment

This 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.

Consulting & Testing Services

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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