



OX-TRAN® MODEL 702

OXYGEN PERMEATION INSTRUMENT

High Throughput OTR Testing for Barrier Films and Packages

MAXIMIZE EFFICIENCY

OTR Barrier Measurements... Done Right.



High Throughput Oxygen Permeation Instrument

The OX-TRAN series of analyzers was the first of its kind and has been the most trusted and longest lasting on the market. When you need high throughput oxygen permeation testing for barrier films or packages, the OX-TRAN 702 analyzer is a solution for you. The OX-TRAN 702 instrument allows testing of up to 7 different samples at a time. The cells feature removable horizontal test cartridges that allow testing of films or packages with an adaptor making the 702 a versatile instrument for any busy laboratory.

High Capacity

The 702 has fully automated testing with 7 independent cells that can run completely independent tests. You start or stop one or multiple tests at different or the same time. Increase testing efficiency with more cells that gives you the ability to run more tests from one location and reduce the need for multiple instruments. With all your tests being run in one instrument you can reduce complications and annual maintenance costs.

High Accuracy

The 702 uses the MOCON's patented Coulox absolute coulometric sensor that complies with ASTM standard D3985. The sensor requires no calibration, and is the only sensor proven to meet its precision and the bias requirements through independent third-party testing. The instrument has a wide range from 0.01 to 200 cc/(m²*day) and it tests the range of many common barrier films.

Applications

The 702 is ideal for high throughput Quality Control (QC) or Quality Assurance (QA) measuring OTR in barrier films like monolayer, multi-layer, coated films, and coated paper/paperboard. With the package adapter it is ideal for high throughput QA/QC OTR in food and medical packages, bottles, and most closures.

High Throughput

- 7 independent test cells for high output needs
- Removable film cartridges are easy to prepare and load
- Tests in each cell can be started and stopped independently
- Pneumatic cell clamping provides repeatable results
- Optional package adaptors allow package testing or connection to remote test cells

Simple user interface

- Overview dashboard screen provides the status of all cells at a glance
- Automatically generated test reports contain complete test data and conditions for all 7 cells
- One control system can be connected to other MOCON instruments providing centralized monitoring and control for multiple instruments
- Test results are available in individual detailed or multi-test summary format

TEST 7 SAMPLES AT ONCE

Unique Cell Design

The advanced push-button test cells have removable cartridges that allow for easy sample preparation, repeatability, and durability. With seven independently controlled test cells, it is possible to run various configurations while allowing for MOCON's NIST traceable certification films or user provided reference material.

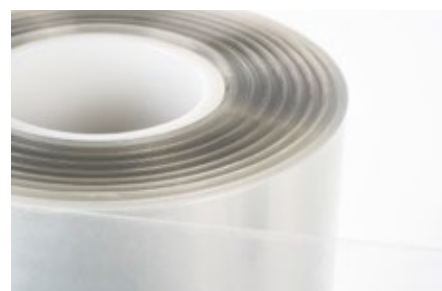
Simple Operation

For films, place all desired films in removable horizontal cartridge and adjust the flow to the desired level. Enter the conditions such as temperature into the connected computer with MOCON's WinPerm™ software and start your test. Monitor all independent cells from the computer to see progress and test results when complete.

AMETEK MOCON's WinPerm™ Permeability software offers value added features such as:

- Quickstart – Quickly choose standard ASTM, ISO, JIS or user defined test conditions
- Preprogrammed test set-up may be saved and recalled for later use
- Test results are automatically converted to Excel format for export and further data manipulation
- Test results are available in individual detailed or multi-test summary format
- Compatible with PERMNET™, AMETEK MOCON's powerful test and data management system

The OX-TRAN 702 is designed for use in labs to conduct high throughput R&D testing.



Coulox® Sensor

- Short exam times reduces overall test time to increase throughput
- No sensor calibration required
- Longer sensor life than others on the market
- More accurate and repeatable results vs. sensors that require calibration
- Intrinsic sensor fully complies with ASTM D3985

Warranty

- Full 100% parts and workmanship warranty for 12 months

OX-TRAN MODEL 702 SPECIFICATIONS

Industry Standards

- ASTM D3985
- ASTM F2622
- ASTM F1307
- ASTM F1927
- ISO CD 15105-2
- JIS K-7126-2
- DIN 53380-3
- GB/T 19789-2005
- GB/T 31354-2014

Dimensions & Weight

Depth: 19" or 48 cm
 Width: 37" or 94 cm
 Height: 24 or 61 cm
 Weight: 150 lbs. or 68 kg

Conformance Standards

- CE Safety Compliance

Connectivity

- Dual RS 485 ports
- Standard RS-232 port for the external programmable temperature bath

Accessories

- PermWare software for data collection and remote monitoring
- PermNet software for data storage
- Package adaptor cartridge
- External programmable temperature bath

Performance Specifications

Test Temperature Range	Ambient + 5°C to 50°C ± 0.5°C
Test Temperature Range with Water Optional Temperature Bath	5°C to 50°C ± 0.5°C
Controlled RH Testing Ranges	Dry Only
Maximum Film Thickness	Up to 80 mil, 2 mm
Carrier Gas	Nitrogen/Hydrogen Mix (98%/2%)
Test Gas	100% Oxygen (99.9% pure)

Technical Specifications

Model 702		Test Ranges			Resolution	Repeatability
		cc/(m ² · day)	cc/(100 in ² · day)	cc/(pkg · day)	cc/(m ² · day)	cc/(m ² · day)
Model 702	Normal (50cm ²)	0.01 to 200	0.0007 to 12.9	0.00005 to 1.0	0.0005	0.005 or 1%*
	Masked (5cm ²)	0.1 to 2000	0.007 to 129			

*Whichever is greater



MOCON, Inc.
 7500 Mendelssohn Ave. N
 Minneapolis, MN 55428 USA
info.mocon@ametec.com
www.ametekmocon.com