

PERMATRAN-W[®]

MODEL 3/34



PERMATRAN-W Model 3/34
WVTR Instrument

Automated to Save You Time

Companies around the world depend on MOCON permeation data to make decisions critical to product development and product quality. Generally, a significant number of labor hours are spent setting up tests or waiting for results, often creating a bottleneck in the laboratory.

The PERMATRAN-W 3/34 water vapor permeation instrument is designed specifically to increase your lab's efficiency, streamline your operations, and improve throughput. Your operators will now spend less time setting up and monitoring permeation tests, allowing them to achieve more in less time.

A new user interface and increased automation makes testing easier than ever before with less skill required, reducing the costs associated with training new employees or transitioning responsibilities within your company. In certain applications, starting a new test may be as simple as a single press of a button. Your operators can now pre-program a variety of tests and different conditions and run them sequentially without operator intervention.

We've also taken the guesswork out of calibration. New technologies allow the PERMATRAN-W 3/34 to automatically assign the ideal calibration mid-test based on trending data, instead of requiring your operator to predict the outcome before they start the test. This means you'll never have to rerun a test due to a mistaken calibration choice.

Increased Productivity

- Elimination of individual zero
- Save on labor hours with less in-test monitoring
- Remote access and control

Easier to Use

- Fully automated temperature and humidity controls
- Automatic calibration selection
- Simplified sample preparation
- Touch screen interface

More Throughput

- Elimination of individual zero
- Less re-tests as a result of incorrect calibration

HIGHEST STANDARD IN AUTOMATED PERMEATION TECHNOLOGY

There's only one right answer

Using a patented modulated infrared sensor, the PERMATRAN-W family is the basis for the ASTM standard F1249 and is the only instrument family proven to meet its precision and bias requirements through independent third party testing. Proven to be more precise and repeatable, this standard has quickly replaced other aging standards such as gravimetric weight loss/gain methods.

Utilizing the most precise sensor technology is only one component of getting the right answer. Only MOCON has over 50 years of experience engineering instruments with the lowest leak rates possible. We have engineered leak rates so low that many applications no longer require you to spend valuable time measuring them, potentially cutting your testing time in half.

Application Solutions

The PERMATRAN-W Model 3/34 is available with a wide variety of custom diffusion cells and accessories to support many unique applications. These components provide flexibility to test more sample types, including whole packages, at a wider range of test conditions, including up to 85°C. Ask your MOCON representative for a PermAUDIT to help determine the best solution for you.

Industry Standards

- ASTM F1249
- TAPPI T557
- ISO 15106-2
- JIS K-7129 Films



Technical Specifications

	Test Ranges			Resolution	Repeatability
	g/(m ² · day)	g/(100 in ² · day)	g/(pkg · day)	g/(m ² · day)	g/(m ² · day)
Model 3/34					
Normal (50 cm ²)	0.005 to 100	0.0003 to 6.45	0.000025 to 0.5	0.001	0.005 or 2%
Reduced Area (5 cm ²)	0.05 to 1,000	0.003 to 64.5	N/A	N/A	N/A

Test Conditions

Test Temperature Range	10°C to 40°C ± 0.2°C
Controlled RH Testing Ranges	Films - Test Gas: 5% to 90% and 100% Carrier Gas: Dry Nitrogen
	Packages: Ambient or Controlled by Chamber