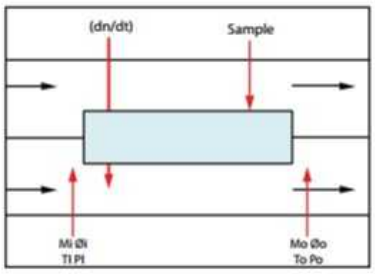
Water Vapor Transmission Rate Analyzer

The water vapor transmission analyzer measures the transmission rate of moisture through various materials under controlled conditions. It simulates real-world application environments, providing accurate and reproducible test results.

Product Overview



The analyzer utilizes a flow-through system to compute transmission rates via mass balance.

Precision Water Vapor Analysis

This advanced analyzer provides highly accurate and reproducible measurements of water vapor transmission rates across diverse material types. Designed for versatility, it simulates real-world application environments by allowing for precise control over temperature, humidity, and pressure gradients. The fully automated system handles data acquisition and processing, making it an essential tool for quality control and research in sectors like textiles, packaging, and high-tech manufacturing.

Key Features

Core Capabilities	Automated Data Acquisition, Humidity Control, Pressure Gradient Support, Flexible Sample Sizing, High Reproducibility

Technical Parameters

Technical Specifications

Parameter	Range	Accuracy
Humidity Measurement	5 - 95%	± 2%
Diff. Pressure Transducers	4 torr	0.015%
Mass Flow Transducers	5 L/min	1%
Temperature Control	RT - 100 °C	0.4 - 0.8 °C

Temperature Control Stability	2 %
Mass Flow Controller Range	2000 cc/min

Application Scope

Suitable Materials

- Textiles
- Leathers
- Man-made membranes
- Nonwovens
- Fabrics