

Water Vapor Transmission Rate Analyzer

This water vapor permeability analyzer measures the rate at which water vapor passes through materials. It is designed for quality control and research applications in packaging, textiles, and construction.



Overview

Advanced Water Vapor Transmission Rate Analyzer

The PKT-W533 is a high-precision testing instrument designed to measure the water vapor transmission rate of diverse materials, including plastic films, aluminum foil, and medical patches. Utilizing the desiccant weighing method, it provides automated testing with independent sensor control across three concurrent channels. Its integrated design features advanced electromagnetic temperature control and precise humidity management, making it an essential solution for quality control and material research in the packaging and construction industries.

Performance Metrics

Key Performance Metrics

10000 g/m²·24h

Max Test Range

0.001 g/m²·24h

Test Precision

0.1 mg

Weight Precision

Technical Specifications

Operational Parameters

Parameter	Range/Value
Temperature Range	15~55
Temperature Precision	±0.1
Humidity Range	30~90%RH, 100%RH
Humidity Precision	±2%RH
Test Area	50.24 cm ²
Max Sample Thickness	5mm

Sample Handling

3 pcs

Compliance and Standards

Industry Standards

GB 1037, GB/T 16928, ASTM E96, ASTM D1653, ISO 2528, CE, ISO 9001