



Water Vapor Transmission Rate Analyzer

AquaSense Model™ 7101

Meeting the NEW ASTM International F3299-18 standard, the AquaSense Model 7101 water vapor transmission rate analyzer incorporates the most advanced coulometric sensor technology with high sensitivity. It is simple to operate, reduces testing costs and increases productivity. Its wide humidity and sample temperature ranges provide research grade flexibility.

What's new:

- Completely new design
- High sensitivity, coulometric sensor with no calibration required
- Easy testing, just load the film and press a button to start
- Large touch screen providing easy operation and display of results
- Film loading made simple and effective with the Q-Seal™ gas-free cell closure system
- Automatic relative humidity and temperature control
- "Test Condition Matrix" (TCM™) enables you, with the touch of a single button, to test a sample at up to ten different conditions of temperature and relative humidity
- Expandable up to 32 cells

A wide range sensor for your WVTR application to meet ASTM F3299-18:

The high sensitivity wide range coulometric sensor offers a range from 0.002 to 70g/(m² · d), 0.02 to 1000g/(m² · d) when masked.

Easy operation

Large interactive touch screen makes working with the instrument easy and intuitive. To test, just enter conditions and press start.

Low operation cost

The sensor continues Systech Illinois' leadership in providing a longer lasting sensor with a lower replacement cost.

Networking

This system runs on a full Windows® operating system enabling safe, secure operation and network connectivity.

Anti-Surge™

Prevents sensor damage due to excessive levels of water vapor – extending sensor life.

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Accurate validation

Obtained in just a few hours using third party certified gases. NIST traceable.

Remote, Internet based support

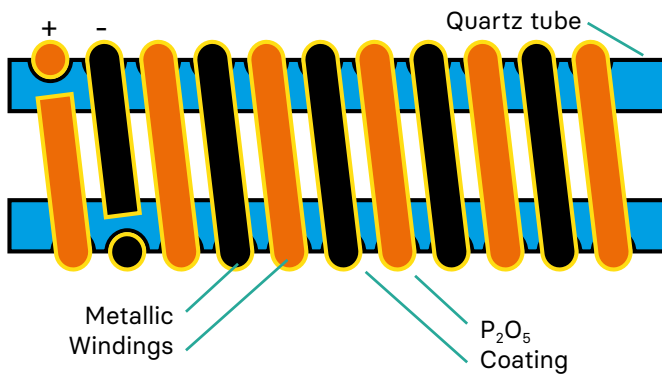
Systech Illinois can access your instrument (with your permission) to diagnose and repair system errors without the cost and time of an on-site visit.

Software

The Windows® based software offers:

- Easy input and recall of operating parameters and test protocols
- Data tracking, searches, sorts, storage and output capabilities
- Graphical representation of measurement data in real time
- Auto-stop feature stops test when samples have reached equilibrium or by user entered elapsed time value
- Software available to conform with 21 CFR Part 11
- Complete system diagnostics

P₂O₅ Sensor Phosphorous Pentoxide:



To achieve an absolute measure, the technology draws upon a fundamental principal of physics.

The phosphorous pentoxide (P₂O₅) moisture sensor consists of a dual platinum winding formed around a quartz tube.

The change in the resistance across the windings creates a change in the measured current. According to Faraday's Law this is directly proportional to the amount of moisture in the gas steam.

Industry Standards

- ASTM F3299-18
- ASTM F1249 (modified)
- ISO 15106-3
- DIN 53122-2
- Tappi T557 (modified)

Features:

- Coulometric sensor technology
ASTM F3299-18 compliant
- High sensitivity
- Easy to operate
- Fully automatic
- Wide humidity range
- Expandable Satellites

Applications

- Barrier Film, PET Bottles, Containers, Closures, Bags, Flexible pouches

Technical Specification:

	Range
g/(m² • day) Unmasked	0.00025 to 2000
g/(m² • day) Masked	0.02 to 1000
g/(pkg • day) at 10cc flow	0.00001 to 0.05
	At 50cc flow up to 0.5
Resolution g/(m² • day)	0.001
Repeatability g/(m² • day)	0.002 or 2% Whichever is greater

Test Conditions

Test Temperature Range:

10°C to 40°C (50°F to 104°F)

Controlled RH Testing Range:

20 to 90% RH

Sample size:

50cm², adapters available for smaller sizes

Contact Details

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