

PMI *Gas Permeameter*

Description

The PMI Gas Permeameter provides fast and accurate measurement of gas permeability of solid/hollow cylindrical and sheet samples. Featuring non-destructive testing and fast results, PMI's Gas Permeameter is perfect for both R&D and quality control.



Applications

Industries worldwide utilize the PMI Gas Permeameter for R&D and quality control. Applicable industries include: Automotive, Battery, Biotechnology Separator, Ceramic, Filtration, Fuel Cells, Geotextiles, Nonwovens, Paper, and Textiles

Principles of Operation

The Gas Permeameter is used to determine the permeability of porous solids. A gas such as air is forced to flow through the test sample. Measurements of the steady-state flow rate and the corresponding pressure drops provide the necessary data for calculation of the permeability using darcy and other units.

Optional Unique Capability

- Permeability measurement of high flow rate samples like cartridges
- Permeability of samples under compressive stress
- Use of elevated test temperatures
- Use of a wide variety of gases

Features

- Windows-based software handles all control, measurement, data collection, and report generation; complete manual control also possible
- Compatible with Windows 95 or higher
- Real-time graphical test display depicts testing status and results throughout operation
- Non-destructive testing
- Length of test approximately 10 minutes
- Wide range of acceptable sample types and sizes
- Multiple sample chambers available
- Minimal maintenance required
- Units in Darcy, Frazier, Gurley, and many others

Specifications

Permeability Range
1 x 10⁻³ - 50 darcies

Sample Size
1.75" - 2.5" diameter
(others usable)

Pressure Range
0 - 500 psi

Pressurizing Gas
Clean, dry, and compressed air or another nonflammable and non-corrosive gas

Pressure Transducer Range
0 - 500 psi

Resolution
1 in 20,000

Accuracy
0.15% of reading

Mass Flow Transducer Range
10 cm³/min - 500,000 cm³/min

Power Requirements
110/120 VAC, 50/60 Hz
(Others available)

Dimensions
30" H x 19" W x 18.5" D

Weight
100 lbs

Other Products

Average Fiber Diameter Analyzer
BubblePoint Tester
Capillary Flow Porometer
Complete Filter Cartridge Analyzer
Clamp-On Porometer
Compression Porometer
Cyclic Compression Porometer
Envelope Surface Area Analyzer
Filtration Media Analyzer
High Flow Porometer
Integrity Analyzer
Integrity Analyzer

In-Plane Porometer
Multipoint Simultaneous Pore Structure Analyzer
Microflow Porometer
Multi-Chamber and Multi-Mode Porometer
Nanopore Flow Porometer
QC Porometer
Diffusion Permeameter
Liquid Permeameter
Vapor Permeameter
Water Vapor Transmission Analyzer
Liquid Extrusion Porosimeter
Mercury/Nonmercury Intrusion Porosimeter

Water Intrusion Porosimeter (Aquapore)
BET Liquisorb
BET Sorptometer
Gas Pycnometer
Mercury Pycnometer

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