

# 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<sup>-3</sup> - 50 darcies

Pressure Transducer Range  
0 - 500 psi

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

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

Resolution  
1 in 20,000

Weight  
100 lbs

Pressure Range  
0 - 500 psi

Accuracy  
0.15% of reading

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

Mass Flow Transducer Range  
10 cm<sup>3</sup>/min - 500,000 cm<sup>3</sup>/min

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

## Other Products

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

In-Plane Porometer  
Microflow Porometer  
Nanopore Flow Porometer  
QC Porometer  
Diffusion Permeameter  
Gas Permeameter  
Liquid Permeameter  
Vapor Permeameter  
Water Vapor Transmission Analyzer  
Liquid Extrusion Porosimeter  
Mercury/Nonmercury Intrusion Porosimeter  
Vacuapore  
Water Intrusion Porosimeter (Aquapore)

BET Liquisorb  
BET Sorptometer  
Gas Pycnometer  
Mercury Pycnometer

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