

INNOVA SERIES ULTRA NANO POROMETER

Specifications:

Model	Innova UNP-100	Innova UNP-200	Innova UNP-500
Measuring Principle	Gas-Liquid Expulsion/ Liquid-Liquid Expulsion		
Max Pressure Range	100psi	200psi	500psi
Pore Size(Min)	10nm	5nm	2nm
Pore Size(Max)	500µm	500µm	500µm
Extended Pore Size Range(optional)	800µm (ER Option)		
Pressure Range Accuracy	±0.1% of full scale		
Sample Size Standard	5mm to 60 mm dia upto 40 mm thick		
Customized Sample Size	Available on Request		
Sample Shapes	Membrane, Paper, Filter Wick, Nob-Woven, Nonfibre(Electrospun), Hollow Fibre, PTFE membranes, Battery Separators, Geotextiles, Cartridges, Ceramics and many more		
Low Flow Rate	50sccm	50sccm	100sccm
High Flow Rate	200 SLM	200 SLM	200 SLM
Extended Flow Range	10 SLM	10 SLM	10 SLM
Flow Meter Accuracy	1% of Reading		
Flow Resolution	1 in 60,000		
Pressure Sensor	100 psi	200 psi	500 psi
Extended Range Pressure Transducer	1 psi, 5 psi, 10psi...(Option available)		
Pressure Regulator Switching	Auto		

Additional Special Functions (Available with Innova Porometers)

Integrity Test: For the integrity analysis of the filters

In-plane Test: Analysis of the sample pore size in the transverse plane

Microflow Test: Test of pore size in samples , such as dense materials with extremely low gas permeability

Liquid Permeability: Measurement of permeation flow rate per unit area at atmospheric or elevated pressure

Controlled Environment Pore Size test under variety of user defined test conditions including temperature , humidity and chemical environment

Clamp-on Sample Cell: Test of samples without cutting or damaging the samples

Automatic Sample Cell: Test of samples without the need for manual operations to cover the sample cell or avoiding error due to human operation

SOFTWARE FUNCTIONS IN INNOVA SERIES POROMETERS:

Different parameter values can be entered, depending on the pore property

Freedom to select automatic or manual mode

A variety of measurement functions to choose from: Complete pore size distribution

test, bubble point test, gas permeability testing,

pressure reserved testing

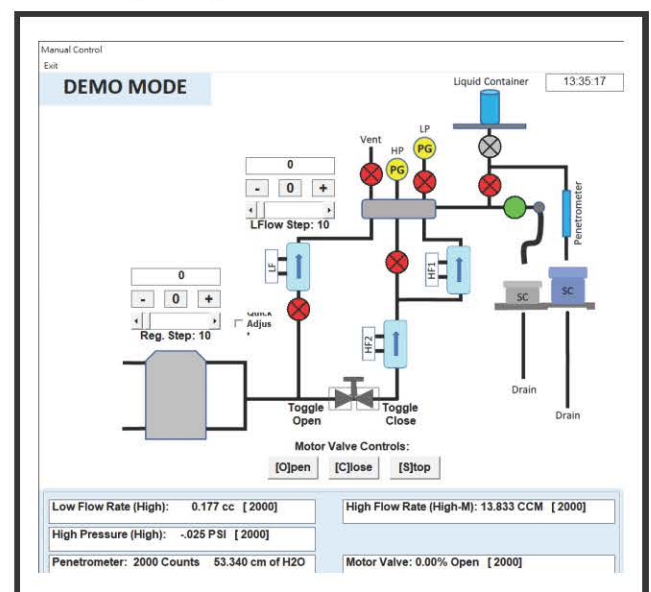
Self-internal parameter

calibration (adjustment)

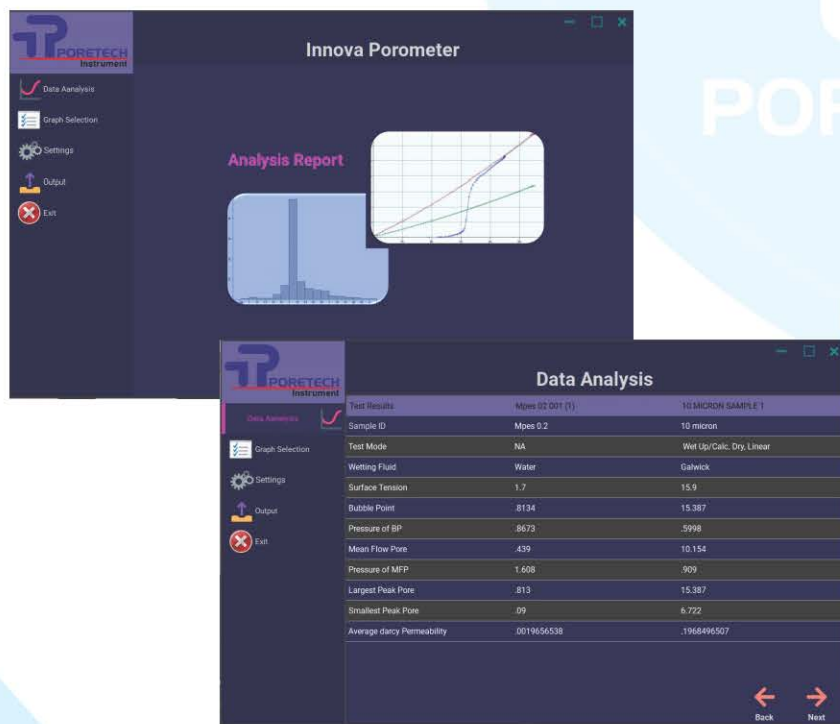
Analysis: pore throat diameter,

bubble point diameter,

mean flow pore size, pore size distribution,



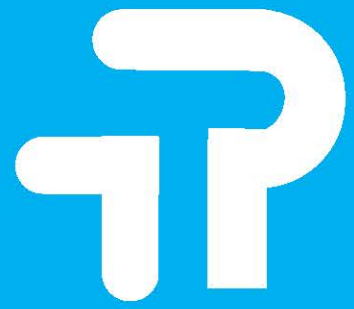
distribution ratio of the number of pores, dry/wet gas flow, gas permeability, cumulative flow distribution, accumulation and differential flow distribution, pore size distribution and cumulative flow, frequency distribution and cumulative flow, simultaneous analysis of 12 or more data files, and overlay for data comparison



Reporting Functions in Innova Series Porometers: Pore throat diameter, bubble point diameter, mean flow pore size, liquid permeability, pore size distribution, number of pore proportional distribution, cumulative flow distribution, accumulative and differential flow distribution, simultaneous analysis of 12 data files, and overlay for data comparison

Contract Testing Services: We offer affordable, reliable and fast pore size testing for various parameters and materials as listed below:

- ⚙️ Capillary Flow Porometer (Gas-Liquid Method) for bubble point, mean flow pore size, pore distribution, gas permeability
- ⚙️ Liquid Liquid Porometer(Liquid-Liquid Method) for bubble point, mean flow pore size, pore distribution, liquid permeability
- ⚙️ Water Intrusion Porosimetry(only Hydrophobic sample) for % porosity, pore volume and pore distribution
- ⚙️ EUROPE: EN 14683:2019 Medical Face Masks. Requirements & Test Method
- ⚙️ Performance requirements for medical face masks EN 14683: 2019 Barrier Levels
- ⚙️ NIOSH Non-Powered Air-Purifying Particulate Respirators
- ⚙️ ASTM F2100 - 19 Standard Specification for Performance of Materials used in Medical Face Masks
- ⚙️ Performance Requirements for Medical Face Masks ASTM F2100-19



PORETECH
INSTRUMENT



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