BTY-B2P Gas Permeability Tester

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Products, Solution, Services

BTY-B2P is based on the differential pressure method, and is professionally applicable to the determination of gas permeability of battery diaphragms, breathable films and other relative polymer products.

Professional Technology

- 3 equivalent specimens can be tested simultaneously with the average value as test result
- The system supports unit conversion function to meet user's requirements for special test
- The instrument is controlled by computer with automatic test process
- Two test modes of proportional and standard modes are available
- Customization of test functions is available for special test materials
- Equipped with RS232 port for convenient data transfer
- Supports Lystem™ Lab Data Sharing System for uniform and systematic management of test results and test reports

Test Principle

Under certain temperature and humidity, a constant gas differential pressure is generated between the two sides of specimen. The gas transmission rate and other parameters can be obtained by analyzing and calculating pressure changes in the lower pressure side.

This test instrument conforms to the following standards:
ISO 5636, SJT 1071.9

Applications

This instrument is applicable to the determination of gas permeability of:

Basic Applications	Test the gas permeability of battery diaphragms, breathable films and other relative polymer products.

Technical Specifications

Specifications	Film Test
Test Range	10 ~ 10,000 s/in^2·100 mL·1.22KPa
Pressure Range	0~20 KPa (customization is available for others)
Resolution	0.1 Pa
Specimen Size	Φ12 mm
Test Area	0.025 sq.in. (0.16 cm^2)
Number of Specimens	3, 2 or 1

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Test Gas	O_2, N_2, CO_2 and 99.9% dry gas (outside of supply scope)
Gas Supply Pressure	0.4 MPa ~ 0.6 MPa
Port Size	Φ4 mm PU Tubing
Power Supply	AC 220 V 50 HZ
Instrument Dimension	645 mm (L) x 500 mm (W) x 468 mm (H)
Net Weight	60 kg

Configurations

Standard Configurations	Mainframe, Professional Software, Fast Quantitative Filter Paper, Sampling Plate and Vacuum Grease
Optional Parts	Vacuum Grease
Note	1. The gas supply port of the instrument is Φ4 mm PU tubing; 2. Customers will need to prepare for gas supply.