

# Battery Diaphragm Gas Permeability Tester

## N600E



## Introduction

Battery Diaphragm Gas Permeability Tester N600E is designed and developed according to GB/T 36363-2018 and other standards. It adopts the test principle of differential pressure method and is professionally used for testing the air permeability of battery separators, breathable membranes and related polymer materials.

## Test principle

In the environment of test temperature, humidity and normal pressure, under the pressure of 1.21kPa applied by the test instrument, the time required for 100mL air to pass through the diaphragm with an area of 6.45 cm<sup>2</sup>.

## Standard

ISO 5636-5, TAPPI T460, GB/T 36363


## Specification

Test range	60~12000 s/100mL
Resolution	0.1 s/100mL
Pressure range	0~3 KPa
Pressure resolution	0.001 kPa
Test area	6.45cm <sup>2</sup>
Sample size	> 50 mm×50 mm
Instrument Size	450 mm×400 mm×300 mm
Power	100W
Power supply	110~250 VAC, 50~60 Hz

## Features

- ◆ The pressure difference of the instrument is adjustable in the range of 0~3 kPa, with an accuracy of 0.001 kPa, which fully meets the test pressure difference requirements of different methods;
- ◆ The instrument supports s/100mL and um/(Pa.s) multi-unit display.
- ◆ The test range can be customized according to different sample requirements.
- ◆ The instrument is well sealed, and the air leakage does not exceed 1.0 mL/h;
- ◆ Pressure can be adjusted arbitrarily, fully automatic operation, automatic measurement and calculation results;
- ◆ The host is equipped with a color touch screen, no need for an external computer, and the air permeability of the sample can be observed in real time;
- ◆ Built-in micro-printer, which can print test report in real time;
- ◆ The upper computer software is designed according to the new version of GMP appendix "Computerized System", which can realize hierarchical authority management, audit trail, electronic signature and other functions (optional).

## Application

	Lithium Ion Battery	Polyolefin separator for lithium ion battery, coated polyolefin separator for lithium ion battery or separator for lithium ion battery using other materials
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## Factory configuration

Number	Item	Specification	quantity	Unit	Remark
1	Instrument	N600E	1	piece	Standard
2	Regulator valve	/	1	piece	Standard
3	Fixture	6.45 cm <sup>2</sup>	1	piece	Standard
4	Calibration sheet	/	1	piece	Standard
5	Gas tube	Φ6	3	meter	Standard
6	Power line	/	1	piece	Standard

8	USB Communication line	/	1	piece	Optional
9	Computer	/	1	piece	Optional
10	Test software (GMP)	/	1	piece	Optional
11	Air compressor	/	1	piece	Optional
12	Metrology certificate	/	1	piece	Optional

Note: GBPI has always been committed to the innovation and improvement of product performance and function. For this reason, product technical specifications and appearance will also be changed accordingly. The above situation will not be notified. GBPI reserves the right of modification and final interpretation.



## Service Commitment

- ◆ Free packaging inspection technical support.
- ◆ One-year warranty for instrument, free software upgrade service, and lifetime free technical support.
- ◆ Free to the factory to train the operation of the instrument, qualified people issued graduation certificates, free accommodation and food.
- ◆ Instrument “trade-in” policy and provision of backup instruments in case of failure.
- ◆ There is a testing center (CNAS L8185) to provide incoming sample testing and sample data comparison services.
- ◆ Set up a Reference Standards Development Center to provide calibration services.

## Company Introduction

Guangzhou Biaoji Packaging Equipment Co., Ltd. was established in 2002 and located in Guangzhou Economic Development Zone. It is a company integrating R&D, production and sales of packaging testing instruments, packaging equipment, modified atmosphere preservation equipment and other products, as well as providing third-party testing and standard material proficiency testing. It is committed to providing comprehensive, professional and high-quality products and technical services for packaging, food, medicine, testing and other industries.

Write industry standards with quality, and become the leader and leader in the field of global packaging testing. The 80,000-mile journey is sailing, and GBPI will escort you!



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