



**Digital Air Permeability Tester**  
**Model: ADL-AP01**



Press Sample



Insert Orifice Plate



## Application

**Digital Air Permeability Tester** is suitable for measuring the permeability of fabrics to air, which can be applicable to most types of fabrics, including industrial fabrics for technical purposes, nonwovens and made-up textile articles that are permeable to air.

## Related Standards:

STANDARDS	ISO 9237	ASTM D737	GB/T 5453, JIS L1096
	BS 5636	DIN 53887	AFNOR G07-111

Note: this tester can conform to but not limit to the standards above, for more standards conformance, please contact us.

## Features

- Large measuring range (0.5~10,000mm/s), no need to change test area under normal circumstances;
- Use 32bit Industry-grade MCU (Mitsubishi, Japan), more excellent anti-jamming, more excellent stability, more rapid data transference speed, and data storage up to 99 groups;
- All orifice plates have been calibrated point-by-point in full testing range;
- Directly test on the sample, no need to cut samples;
- Automatically remind when samples are not clamped well, delete the test result when pressing the handle in the testing process;
- Automatically identify the diameter of orifice plate;
- Special designed sample holder accomplish test in box and ensure the yarn without slip;
- With the function of saving data when power down;
- Different sample effective test area is optional (5cm<sup>2</sup>, 20cm<sup>2</sup>, 25 cm<sup>2</sup>, 38.3cm<sup>2</sup>, 50 cm<sup>2</sup>, 100cm<sup>2</sup>);

## AdLab Instruments Co., Ltd

★ RM 602, 6/F, Kaiyue Comm Building, No.2C, Argyle Street, Mongkok Kowloon, Hong Kong

🇮🇪 20A Cuil Na Carriage, Ballymakeera, Co-Cork, Ireland (EU)

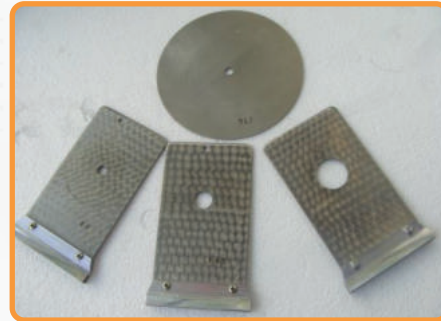
✉ info@adlabinstruments.com 🌐 www.adlabinstruments.com

## Digital Air Permeability Tester Model: ADL-AP01

Note

Standard	Test Area	Pressure
ISO 9237	20cm <sup>2</sup> (5cm <sup>2</sup> , 50cm <sup>2</sup> , 100cm <sup>2</sup> )	100Pa/200Pa
GB/T 5453	20cm <sup>2</sup> (5cm <sup>2</sup> , 50cm <sup>2</sup> , 100cm <sup>2</sup> )	100Pa/200Pa
DIN 53887	20cm <sup>2</sup>	100Pa/160Pa/200Pa
ASTM D737	38.3cm <sup>2</sup>	13mmH <sub>2</sub> O (=0.5W.C 125Pa)
AFNOR G07-111	20cm <sup>2</sup> (50cm <sup>2</sup> )	196Pa

- Different orifice plates are available (Φ0.5mm, Φ1.0mm, Φ1.5mm, Φ2.5mm, Φ4.5mm, Φ8.0mm, Φ14.5mm, Φ26mm);



- Branded high accuracy pressure sensor, digital feedback and adjust air volume;

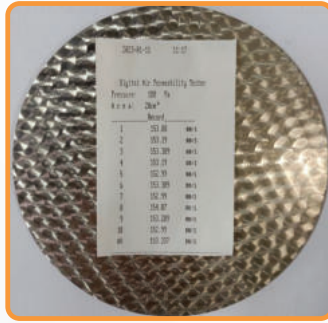


- Touch screen display with mini-printer;



**Digital Air Permeability Tester  
Model: ADL-DAP01**

- Equipped with calibration plate, easy for users to check the accuracy of equipment.



### Key Specification

- Pressure difference range 50~500Pa
- Measuring range 0.5~10,000mm/s (L/m2.s)
- Measure accuracy  $\leq \pm 3\%$
- Sample thickness  $\leq 5\text{mm}$
- Sample effective test area Standard: 20 cm<sup>2</sup>,  
Optional: 5 cm<sup>2</sup>, 25 cm<sup>2</sup>, 38.3 cm<sup>2</sup>, 50 cm<sup>2</sup>, 100 cm<sup>2</sup>
- Diameter of orifice plate  $\Phi 0.5\text{mm}$ ,  $\Phi 1.0\text{mm}$ ,  $\Phi 1.5\text{mm}$ ,  $\Phi 2.5\text{mm}$ ,  
 $\Phi 4.5\text{mm}$ ,  $\Phi 8.0\text{mm}$ ,  $\Phi 14.5\text{mm}$ ,  $\Phi 26\text{mm}$
- Power supply AC220V, 50Hz
- Dimensions 700×510×1010mm (L×W×H)
- Net weight 100kg

### Standard Configuration

No.	Item	Quantity
1	Main machine	1 set
2	Orifice plate ( $\Phi 0.5\text{mm}$ , $\Phi 1.0\text{mm}$ , $\Phi 1.5\text{mm}$ , $\Phi 2.5\text{mm}$ , $\Phi 4.5\text{mm}$ , $\Phi 8.0\text{mm}$ , $\Phi 14.5\text{mm}$ , $\Phi 26\text{mm}$ )	1 pc for each
3	Fixed area ring (20 cm <sup>2</sup> or please specify before order)	1 pc
4	Rubber ring	1 pc
5	Standard calibration plate	1 pc
6	Handle	1 pc
7	Thermal paper	1 roll

### Optional Accessories

No.	Item
1	Fixed area ring (5cm <sup>2</sup> , 20 cm <sup>2</sup> , 25 cm <sup>2</sup> , 38.3 cm <sup>2</sup> , 50 cm <sup>2</sup> , 100 cm <sup>2</sup> )

*\*Technical Data Subject to change without notice.*

AdLab is a globally recognized brand specializing in the manufacturing and supply of high-quality laboratory equipment and textile testing instruments. With over 15 years of experience, we are committed to delivering precision-engineered solutions that meet the needs of industries such as textiles, pharmaceuticals, research laboratories, and educational institutions. Our products are designed to enhance efficiency, accuracy, and reliability in scientific and industrial applications.

## Our Skill

At AdLab, we combine expertise in precision engineering with advanced laboratory technology to create innovative and reliable testing instruments. Our team of skilled professionals continuously works on improving product designs, integrating the latest advancements in technology, and ensuring compliance with international quality standards. With a strong focus on research and development, we provide customized solutions that cater to the unique needs of our customers worldwide.

## Our Products

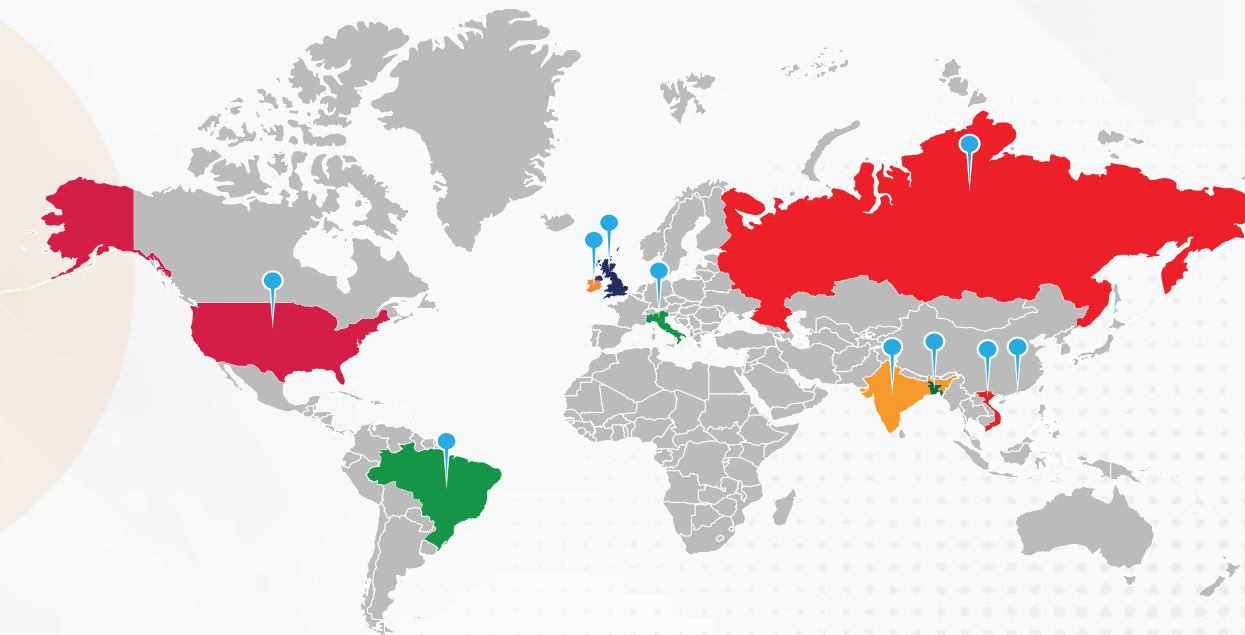
AdLab offers a wide range of high-quality laboratory and textile testing instruments, including Yarn & Fiber Testing Instruments, Laboratory Fume Hood Chambers, Ovens & Incubators, Water Baths, Textile Testing Instruments, Dyeing & Finishing Machines, Ceramic Testing, Tensile Testing, Washers & Dryers, Needle Detectors, and In-House Testing Equipment. Designed for precision and efficiency, our products ensure accurate testing and reliable performance across various industries.

## Our Services

At AdLab, customer satisfaction is our top priority. We provide comprehensive support services to ensure the smooth operation of our equipment, including:

- ✓ 24/7 Technical Support Team – Our highly trained technical support team is available around the clock to assist with troubleshooting, maintenance, and operational guidance. Whether you need immediate assistance or expert advice, we are always ready to help.
- ✓ Installation & Training – We offer professional installation services and hands-on training to help users operate our equipment efficiently.
- ✓ Calibration & Maintenance – Regular calibration and maintenance services ensure that your laboratory instruments remain accurate and in optimal working condition.
- ✓ Customized Solutions – We provide tailored solutions to meet specific industry requirements, helping our clients achieve maximum efficiency in their operations.

## Global Networks



**Bangladesh • Brazil • China • Hong Kong • India • Ireland • Italy • UK • USA • Vietnam**

### AdLab Instruments Co., Ltd

★ RM 602, 6/F, Kaiyue Comm Building, No.2C, Argyle Street, Mongkok Kowloon, Hong Kong

🇮🇪 20A Cuil Na Carriage, Ballymakeera, Co-Cork, Ireland (EU)

✉ info@adlabinstruments.com 🌐 www.adlabinstruments.com