



## Smart Air Permeability Tester Model: ADL-AP02S

### Product Description

Smart Air Permeability Tester is used for fast, simple, and accurate determination of the air permeability of all kinds of flat materials and of foam cubes. The measuring range covers dense papers and airbag fabrics as well as extremely, open non-woven and forming fabrics.

ADL-AP02S configuration with android operating system color tablets, multi-touch panel, simple and convenient operation, the test results can be saved to EXCEL, to generate the perfect test reports, also can connect Internet, send test data by Wifi.

ADL-AP02S design with reference to the Swiss TEXTEST FX3300, on the basis of FX3300 made many improvements, The test results completely consistent with TEXTEST FX3300

### Technical Specifications

0.4 – 750 cm <sup>3</sup> cm <sup>2</sup> /s	5 cm <sup>2</sup> test area
1 – 10,000 l/ m <sup>2</sup> /s	20 cm <sup>2</sup> test area
1 – 10,000 mm/s	20 cm <sup>2</sup> test area
0.6 – 6,000 l/dm <sup>2</sup> /min	20 cm <sup>2</sup> test area
0.008 – 5 dm <sup>3</sup> /s	25 cm <sup>2</sup> test area
0.1 – 1,300 ft <sup>3</sup> /ft <sup>2</sup> /min	38 cm <sup>2</sup> test area
0.05 – 700 cm <sup>3</sup> /cm <sup>2</sup> /s	38 cm <sup>2</sup> test area
0.03 – 400 m <sup>3</sup> /m <sup>2</sup> /min	38 cm <sup>2</sup> test area
2 – 24,000 m <sup>3</sup> /m <sup>2</sup> /h	38 cm <sup>2</sup> test area
0.1 – 1,600 l/dm <sup>2</sup> /min	100 cm <sup>2</sup> test area

- Unit : mm/s, ft<sup>3</sup>/ft<sup>2</sup>/min, cm<sup>3</sup>/cm<sup>2</sup>/s, l/m<sup>2</sup>/s, l/dm<sup>2</sup>/min, m<sup>3</sup>/m<sup>2</sup>/min, m<sup>3</sup>/m<sup>2</sup>/h, dm<sup>3</sup>/s, L/s, L/min, m<sup>3</sup>/h, cfm, ft<sup>3</sup>/min
- Measuring accuracy: ± 2 % of the displayed value Test pressure: 10~ 2,500 Pa
- Test head / test area: 20cm<sup>2</sup> (standard)  
5, 25, 38, 50 and 100 cm<sup>2</sup> (optional)
- Data port: Wifi
- Power requirements: 195 ~250 V, 50/60 Hz, max. 1,100 W  
85 ~130 V, 50/60 Hz, max. 1,100 W
- Projection of clamping arm: 50 cm (20")
- Sample thickness: 0 ... 10 mm (0 ... 0.4")
- Dimensions (w x d x h): 40 x 92 x 110 cm
- Table height: 85 cm
- Net/gross weight: 60 / 75 kg



### Testing Standards

AFNOR G 07-111, ASTM D 737, ASTM D3574, BS 5636, DIN 53887, EDANA 140.1, EN ISO 7231, EN ISO 9237, JIS L 1096-A, TAPPI T 251, GB/T5453, GB/T 22819-2008

### Professional Technology

1. 10-inch color screen, capacitive touch screen, multi-point touch Android7.0 operating system, easy Control, test results can be saved to Excel file, and can be sent via WIFI to anywhere, can also be saved to the SD card.
2. Automatic test, according to the flow of fabric air permeability, automatic test choose the appropriate range.
3. Automatic induction test head size, easy to change the test head.
4. Unique to leak prevention design, air leakage is close to zero.

### AdLab Instruments Co., Ltd

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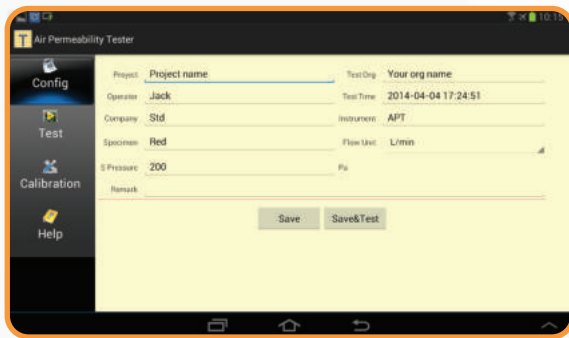
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### Test Principle

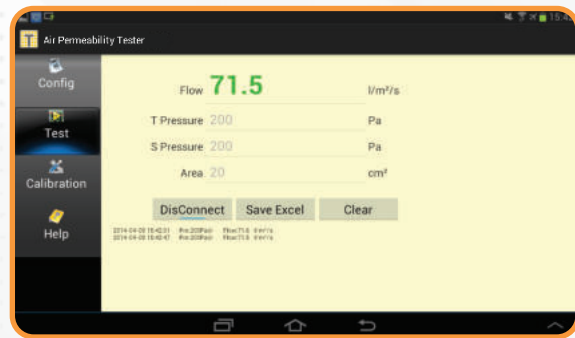
A specimen is clamped over the test head opening by pressing down the clamping arm which automatically starts the vacuum pump. The pre-selected test pressure is maintained, and after a few seconds the air permeability of the test specimen is displayed in the pre-selected unit of measure.

### Control Panel

ADL-APT01 is to use the samsung tablet with multi-touch interface, installation EY36 android applications, simple and convenient operation, Easy maintenance, test results can be sent to anywhere by network



Config interface



Test interface

### Test Report

ADL-APT01 test result can save as EXCEL format, through internet or SD card transmitted to the computer, easy to edit and print.

AdLab		Air Permeability Tester		
Project	FSPG样品测试			
Test ORG	AdLab Laboratory			
Instrument				
Operator	Jack			
Company	德菱			
Specimen	无纺布水布SYC21			
Remark				
Test Date	2013-12-18 16:27:40			
No.	Time	Pressure(Pa)	Result	Unit
1	2013-12-18 16:39	200	365	l/m²/s
2	2013-12-18 16:41	200	366	l/m²/s
3	2013-12-18 16:45	200	364	l/m²/s
4	2013-12-18 16:47	200	365	l/m²/s
5	2013-12-18 16:49	200	365	l/m²/s

### Configuration

Standard configuration: Mainbody, Test head 20cm², LABTest analysis software, One Verification Check Plate

*\*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.

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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.

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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.

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- ✓ 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.

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