

# FPS

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## Fabric & Tissue Permeability Measuring System

ISO 9237



Mecanum's fabric and tissue permeability measuring system is specially designed to measure the air permeability of tissues. It applies to most textile products, including industrial technical fabrics, nonwovens, filters or other breathable textiles. It can be used for material characterization or quality control.

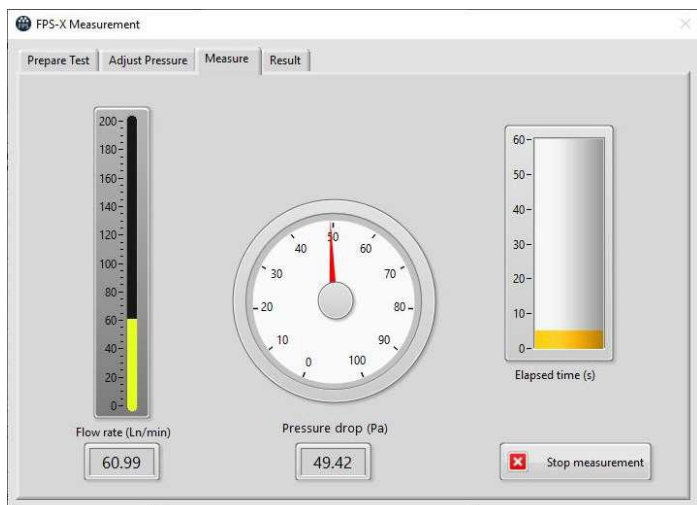
**SPECIFICATIONS**

**Test Bench**

- Gas control unit:
  - Airflow control unit
  - Differential pressure transducer
  - Embedded DAQ
- Sample holder according to ISO 9237 with 5, 20, 50 or 100 cm<sup>2</sup> test area
- Adjustable compression system to minimize leaks
- Perforated plate certified ISO 5167-2 for instrument verification

**FPS-X Software**

- Semi-automatic flow measurement and control
- Calculation of permeability according to ISO 9237
- Statistic computation
- Data export



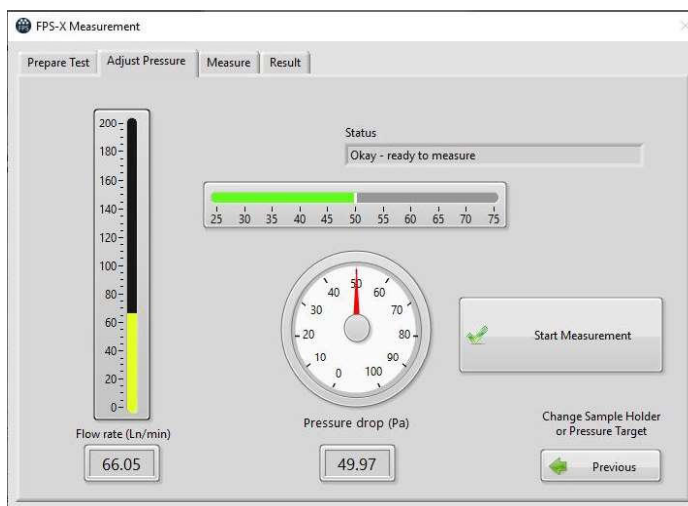
**TECHNICAL DATA**

**Test Bench**

- Dimensions: 515 (L) x 470 (W) x 380 (H) mm
- Maximum sample thickness: 90 mm
- Airflow control range (Ln/min): 5 to 140
- Differential pressure transducer (Pa): 0 to 750
- Operating temperature: 0°C to 42°C
- Maximum relative humidity: 95% non condensing
- Power supply: 100-240 VAC / 50-60 Hz / 50 W
- Communication: USB 2.0 type A

**MEASURING RANGE**

Air Permeability: 8.35 to 4 676 mm/s (\*)  
 (\*) Depending on test area surface



**SPECIAL REQUIREMENT**

The FPS system requires a dry and clean (10 micron filter or better required) compressed air supply of a minimum 24 SCM (680 SPLM) at 80 psi (5.5 bar).

**WARRANTY & SUPPORT**

All Mecanum characterization systems are covered by a one-year limited warranty and technical support. Valid only on manufacturing defects and does not cover damage due to abuse or improper use of the equipment.

Please note that the technical aspects of our equipment may be subject to change without notice