

TESTING INSTRUMENTS FOR  
*A MEASURABLE DIFFERENCE...*

**IDM**  
instruments

# FOAM POROSITY TESTER

MODEL IDM-F0031-M1



10 - 11 Colorado Court Hallam,  
Wiltshire, SN3 6 9JH, UK



ES France - Département Bio-tests & Industries  
127 rue de Buzenval BP 26 - 92380 Garches



Tél. 01 47 95 99 90  
Fax. 01 47 01 16 22



e-mail : [bio@es-france.com](mailto:bio@es-france.com)  
Site Web : [www.es-france.com](http://www.es-france.com)

## INTRODUCTION

The Auto FPT is used for monitoring the porosity of flexible cellular polyurethane. The machine determines how easy air passes through a cellular structure. Airflow values may be used as an indirect measurement of certain cell structure characteristics.

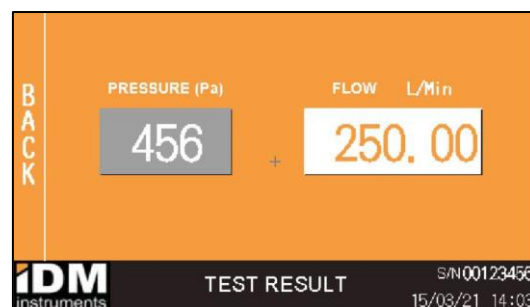
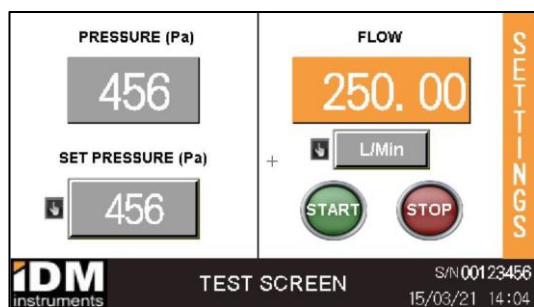
The F0031 model Foam Porosity Tester is made with reference to international standards for measurement of a flexible cellular test piece, 50mm x 50mm x 25mm, it is placed in a vacuum chamber cavity and a specified automatic constant differential air pressure is applied. The pressure in Pa can be digitally set on the display and once the FPT reaches the set pressure, the rate of airflow at the set Pa is automatically locked in and held on the flow display, completing a test in seconds.

## FEATURES

- Touch Screen Operation
- Digital Manometer: 0-500 Pa  $\pm$  1%
- Variable Pa Range
- Automatic Pa control
- Automatic Flow reading hold
- Selectable Units L/min, CF/min
- RS232 Data Output

## TEST & RESULT SCREEN

- The test screen features the setup, start and stop touch buttons for testing. It displays the pre-set pa pressure and flow L/min.
- After a stable reading for 2 seconds, the test result screen will automatically be displayed showing results.



## MODELS & SPECIFICATIONS

Model	Range	Accuracy	Suggested Applications
F0031-M1-20	0.2-20 L/min	$\pm$ 2% FS	<b>High Density flexible cellular polyurethane</b> , visco memory foam, packaging foam, acoustic foam, neoprene rubber, closed cell foam etc. e.g. furniture, sound dampening, packaging, automotive, mattresses etc
F0031-M1-200	2-200 L/min	$\pm$ 1% FS	<b>Medium Density flexible cellular polyurethane</b> , packaging foam etc. e.g. furniture, packaging, automotive, mattresses etc
F0031-M1-500	5-500 L/min	$\pm$ 1% FS	<b>Low Density flexible cellular polyurethane</b> , speaker foam, expanded foam, anti-static foam, open cell foam etc. e.g. air filter foams, arts and crafts etc



## OPTIONAL ITEMS

- **IDM-F0031-M1-OP1** - Data Acquisition Software
- **IDM-F0031-M1-OP2** - USB to RS-232 Cable

## STANDARDS

- AS 2282.14
- ASTM D3574 - Test G
- ISO 7231
- BS EN ISO 7231
- DIN EN ISO 7231
- EN ISO 7231
- JIS K 6400

## ELECTRICAL

### Electrical:

- 220/240 VAC @ 50 HZ  
or
- 110 VAC @ 60  
(please specify when ordering)

## DIMENSIONS

### Instrument:

- H: 375 mm
- W: 200 mm
- D: 650 mm
- Weight: 22 kg

### Packaged:

- H: 520 mm
- W: 580 mm
- D: 960 mm
- Weight: 28 kg

## RELATED ITEMS

- Use the Sample Band Saw to cut foam samples suitable for the Foam Porosity Tester.



**IDM-S0017-M1**

## WARRANTY AND CALIBRATION SERVICES

- **1 year Warranty**
- Our **Preventive Maintenance and Calibration (PM&C) program** has been designed to make the maintenance and calibration of your valuable testing equipment more cost effective by preventing breakdowns and downtime by regular calibration, service and replacement of defective parts. Talk to us about this today.