



FX 3360 PortAir
Air Permeability Tester



FX 3360 PortAir with many Benefits

The portable air permeability tester FX 3360 PortAir is used for the determination of the air permeability (or of the pressure drop at a selectable air velocity) and the thickness of fabrics, nonwovens, felts and films.

The FX 3360 PortAir is battery operated, compact, lightweight and yet robust, and thus suitable for single-handed operation. If necessary, measurements can be taken overhead, for example to check the paper machine clothing inside the paper machine at difficult-to-reach locations.

✓ Benefit thanks to flexibility

For spot testing, the instrument is placed onto the material and the test is started by pushing the start button. A profile measurement is done by manually pushing the instrument over the material during the test. The test results are sampled in regular and selectable intervals and the high-resolution profile is displayed in real-time on the large LCD screen of the instrument.

✓ Benefit thanks to clever operation

Suspicious areas of the material can be marked in the profile by a push-button. This greatly facilitates the subsequent error analysis.



✓ Benefit thanks to transportability

When not in use, the FX 3360 PortAir can be placed in the supplied storage and carrying case. The built-in battery charger then automatically recharges the battery of the instrument.

✓ Benefit thanks to multi-tasking

An optional thickness gauge and a magnetic counter plate allow for the determination of the thickness simultaneously with the air permeability or the pressure drop measurement.

FX 3360 PortAir with the storage and carrying case with the built-in battery charger and accessories

✓ Benefit thanks to software

The control and evaluation PC software is included. Use the optional L 5300-GDC “Generic Data Converter” software to convert the measuring data to your requirements and integrate the data into your IT environment for further analysis.



Presentation of Test Results

The instrument continuously displays the test result, both graphically and numerically. Due to the permanent comparison with the control range of each material, any deviation becomes immediately obvious.

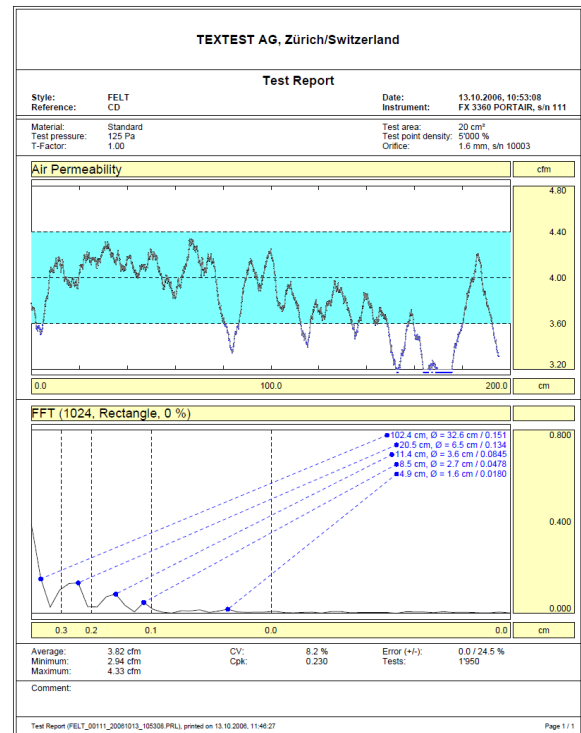
By means of a "Fast Fourier Transformation" (FFT) any periodic variations of the test results can easily be determined and evaluated.

A meaningful statistical analysis summarizes the large amount of data in an easy-to-read way.

The test results can be transferred to a PC for documentation, storage and long-term evaluation. The necessary PC program is supplied together with the instrument.

The PC program generates a comprehensive test report.

Both, the instrument and the software operate in five different languages: German, English, French, Italian and Spanish.



Sample test report

Products

FX 3360-THG

For online thickness measurements. To be mounted inside the FX 3360 PortAir. Requires the FX 3360-TCP Counter Plate.

FX 3360-TCP

Magnetic counter plate for the thickness gauge of the FX 3360 PortAir.

FX 3360-PS1

For power line operation of the FX 3360 PortAir (without battery).

FX 3360-ETH

Allows communication between the FX 3360 PortAir and a PC through an ethernet cable.

FX 3360-WLN2

Allows communication between the FX 3360 PortAir and a PC through a WLAN or an ethernet cable.

L 5300-GDC

PC software for reading, converting and integrating the test data into your IT environment.



Technical Specifications

- Air permeability**

Measuring range	1	-	5'000	mm/s
Test pressure	98	-	500	Pa
Test area	20			cm ²
Measuring accuracy	±3 % of the displayed value			
Units of measurement	mm/s, l/m ² /s, l/dm ² /min, cm ³ /cm ² /s, m ³ /m ² /h, m ³ /m ² /min, m ³ /m ² /s, ft ³ /ft ² /min			

- Pressure drop**

Measuring range	0.01	-	65'000	Pa
Air velocity	0.001	-	10	m/s
Test area	20			2'cm ²
Measuring accuracy	±3 % of the displayed value			
Units of measurement	Pa			

- Thickness**

Measuring range	0	-	6	mm
Clamping force	1	-	20	N
Test area	1, 2, 3, 10, 20 or 25 cm ²			
Measuring accuracy	±0.02 mm ±0.5 % of the displayed value			
Units of measurement	mm, µm, mil			

- Test point pitch 1 - 100 mm
- Maximum measuring speed 200 m/min at 100 mm test point pitch
- Data port USB 1.1
- Average battery lifetime approx. 120 min
- Power requirements 90 - 264 V, 50 - 60 Hz, 60 W
- Dimensions / Weights

Instrument	42 x 21 x 16 cm / 4.8 kg
Instrument with transport case	55 x 43 x 21 cm / 10.7 kg
- Temperature range

Operation	0 - 45 °C
Storage	-20 - 60 °C

Subject to change without notice.

A certificate of calibration in compliance with ISO/IEC 17025:2017 and a check plate is included with each FX 3360 PortAir.



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