

TESTING INSTRUMENTS FOR QUALITY CONTROL 



# FX 3370 SpotAir

Air Permeability Tester

Distributor in China:

**TEXTTEST**  
INSTRUMENTS

**理寶** **LIBERO**  
Testing Equipment  
測試設備

# FX 3370 SpotAir with many benefits

The FX 3370 Air Permeability Tester SpotAir determines the Air Permeability, the Pressure Drop and the Acoustic Impedance at the moving web. It's the smallest, lightest and most versatile Air Permeability Tester currently available in the market.

The measuring module can be used for manual spot and profile measurements, in which case it is powered by a battery, as well as for continuous profile measurements. In case of a continuous measurement, the same module can be mounted to the frame of the production line. Mounting points are installed on the module for this purpose. Up to five measuring modules can be linked together and operated from a single PC. Depending on the number of modules, up to five length profiles over the entire width of the material can be displayed.

When the SpotAir is used manually, the results of spot measurements are shown on the display of the instrument and profiles are saved on a USB flash drive for later transfer to a PC. During continuous use, the profiles are displayed, evaluated and documented in real time by the controlling PC.

## 1 Benefit thanks to small dimensions

The measuring module is light (approx. 2.2 kg) and compact (approx. 200 x 200 x 200 mm). Due to the minor space requirements, it can be integrated into an existing production line without problems. When used manually the light weight relieves the operator and no massive rail is required for integration into a production line.

## 2 Benefit thanks to a well-proven measuring principle

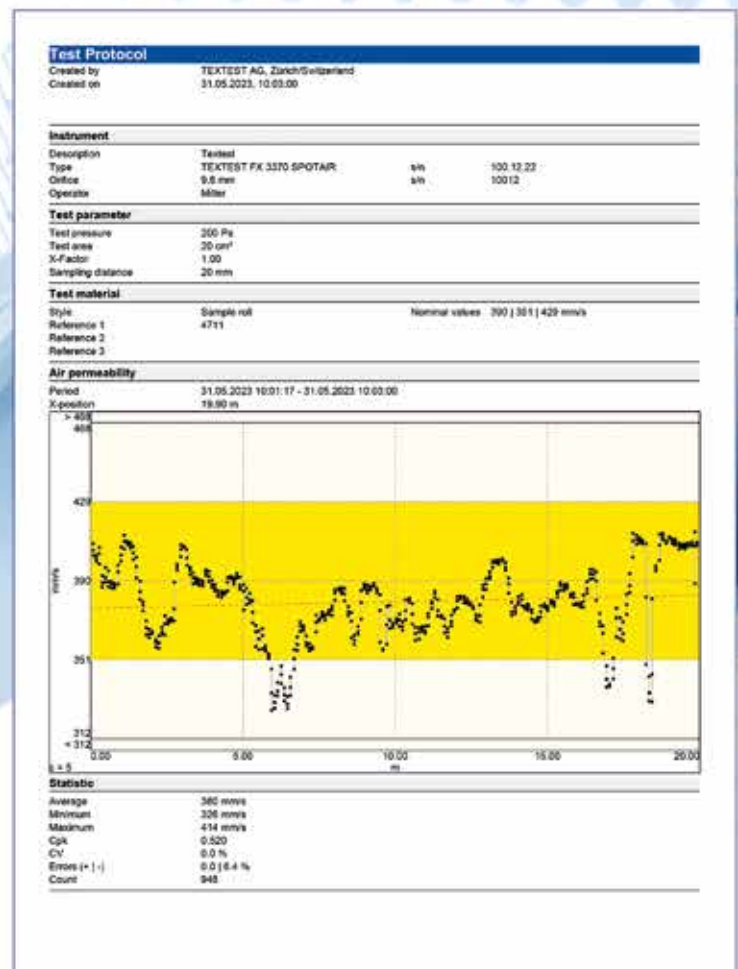
The FX 3370 SpotAir measures based on the differential pressure measuring principle. This proven method has been used by Textest for several decades, e.g. since 1991 for the laboratory instrument FX 3300. This ensures a good correlation with the results from the lab.

## 3 Benefit thanks to transportability

The supplied carrying case not only allows to move the instrument easily and safely within a plant, it also assists when it needs to be taken to a supplier or customer for measurements there.



Test Protocol  
FX 3370 SpotAir





#### 4 5 Benefit thanks to flexibility

Independent of whether measurements are taken manually or continuously, the measuring module is always the same. This permits easy and fast switching between mobile and fixed applications. The same measuring module can be used for spot and profile measurements.

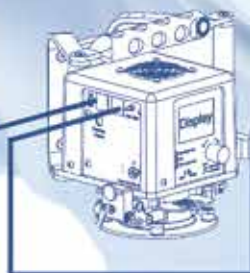
#### Benefit thanks to battery

The battery, which is integrated in the measuring module, provides electrical power during manual use. It can be recharged inside the instrument with the included power adapter. When used continuously, the module is supplied with energy by cable. This allows for long measuring runs.



#### BENEFITS AT A GLANCE

- Small dimensions
- Well-proven measuring principle
- Transportability
- Flexibility
- Battery



**Technical Specifications:**

Measuring range Air Permeability:	1.2 ... 4,000 mm/s
Measuring range Pressure Drop:	20 ... 200 Pa
Test area:	20 cm <sup>2</sup>
Test pressure:	20 ... 200 Pa
Units of measure:	mm/s, l/m <sup>2</sup> /s, l/dm <sup>2</sup> /min, l/cm <sup>2</sup> /h, cm <sup>3</sup> /cm <sup>2</sup> /s, m <sup>3</sup> /m <sup>2</sup> /h, m <sup>3</sup> /m <sup>2</sup> /min, m <sup>3</sup> /m <sup>2</sup> /s, ft <sup>3</sup> /ft <sup>2</sup> /min, Pa s/m, MKS Rayl, CGS Rayl, dm <sup>3</sup> /s, Pa/cm <sup>2</sup> (EN 14683)
Display accuracy:	3 significant digits
Measuring accuracy Air Permeability:	3 % of the displayed value
Measuring accuracy Pressure Drop:	3 % of the displayed value, but not better than 2 Pa
Repeatability:	Better than 1 % of the displayed value
Test point pitch position synchronous:	1, 2, 5, 10, 20, 50 or 100 mm
Test point pitch time synchronous:	0.5, 1, 2, 5, 10 second(s)
Max. sample rate	2 values per second
Max. material temperature:	50°C
Protection class:	IP 40
Dimensions (w x d x h):	Approx. 20 x 20 x 20 cm
Weight:	2.2 kg (only instrument with one orifice card) 6.8 kg (transportation case with instrument and accessories)
Power requirements adapter:	100 ... 230 VAC, 50/60 Hz, 1.2 A
Measuring time with battery:	Approx. 2 hours
Interfaces:	2 x RJ45 Ethernet, 1 x USB 2.0 (slave)
Languages GUI of instrument:	German, English, French, Italian, Spanish, Portuguese

*Specifications subject to change.*

A certificate of calibration in compliance with ISO/IEC 17025:2017 is include with each measuring module.



SWISS CALIBRATION  
SERVICE

**Modules:**

FX 3370: Measuring module with integrated battery. Shows results of spot measurements on the display and saves time synchronous profiles in an XML file.

FX 3370-B20: 15 orifice cards, which cover the entire measuring range. Can be ordered individually.

FX 3370-LWG: Metering device. Only required for position synchronous profile measurements.

FX 3370-EVA: PC software for documentation and evaluation of test data from manual spot or profile measurements.

FX 3370-STREAM1: PC software for control and documentation / evaluation of the test data of one measuring module.

FX 3370-STREAM5: PC software for control and documentation / evaluation of the test data of up to five measuring modules.

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