



DBM610 Airflow meter

KEY POINTS

- Measuring range from **40 to 3500 m³/h**
- **Quick and simple** hood changes
- Software for data processing on computer (datalogger 10)
- Sturdy, lightweight and easy to handle
- **Removable** measuring unit
- **Interchangeable** hoods

AVAILABLE HOODS

DBM610 airflow meter comes in standard with a 610 x 610 mm hood.

4 others hoods are available as options :

- 1020 x 1020 mm
- 720 x 720 mm
- 720 x 1320 mm
- 420 x 1520 mm

Hoods are airtight and have a transparent part on each side allowing the user to see through the vent and ensure that the hood is in a good position.

The rods, made of fiberglass, provides a good hoods sturdiness.

FLOW AREA

The flow area is attached to the base and allows the measurement on 48 points, all over the surface of the flow area.

Measurement is performed using a differential pressure sensor, calibrated and compensated in atmospheric pressure and in temperature.

AUTONOMOUS MICROMANOMETER

Once removed, the measuring unit can be used as a micromanometer :

- With a Pitot tube, it allows measurement of airflow in a duct
- With two silicone tubes, it allows to check filters fouling.



FUNCTIONS

- Simultaneous display of airflow and temperature
- Automatic airflow direction (extraction or air blast)
- Automatic averaging or point by point averaging
- HOLD function
- Removable measuring unit (micromanometer function)
- Data processing on computer with USB port
- Different languages available



TECHNICAL FEATURES

• AIRFLOW

Measuring range	From 40 to 3500 m ³ /h
Accuracy*	3% of the measurement ± 10 m ³ /h
Resolution	1 m ³ /h

• TEMPERATURE (on the base)

Measuring range	From 0 to 50°C
Accuracy*	2% of the measurement ± 0.1 °C
Resolution	0.1°C

• THERMOCOUPLE TEMPERATURE (on the micromanometer)

Thermocouple type	K, J, T, S
Measuring range	K : from -200 to 1300°C J : from -100 to 750°C T : from -200 to 400°C S : from 0 to 1760°C
Accuracy*	K : $\pm 1,1^\circ\text{C}$ or $\pm 0.4\%$ of reading value J : $\pm 0,8^\circ\text{C}$ or $\pm 0.4\%$ of reading value T : $\pm 0,5^\circ\text{C}$ or $\pm 0.4\%$ of reading value S : $\pm 1^\circ\text{C}$ or 0.4% of reading value
Resolution	0.1°C

• PRESSURE

Measuring range	From -2500 to +2500 Pa
Accuracy*	$\pm 0.2\%$ of reading ± 2 Pa
Resolution	From 0.001 to 0.1 Pa

*All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with required compensation.

GENERAL TECHNICAL FEATURES

Display	Large graphic back-lighted LCD Sizes : 86 x 51 mm
Connectors	ABS connectors, \varnothing 7 x 4 mm
Housing	Shock-proof made of ABS, IP54 protection
Keypad	12 keys
Conformity	Electromagnetical compatibility (NF EN 61326-1 guideline)
Power supply	4 alkaline batteries LR6 Rechargeable battery Li-ion 3.7 V 4400 mAh (optional)
Environment	Neutral gases
Operating temperature	From 0 to +60 °C
Storage temperature	From -20 to +70 °C
Auto-shut-off	Adjustable from 0 to 120 min
Weight	3600 g
Languages	French, English

SUPPLIED WITH

DBM610 airflow meter is supplied with calibration certificate, hood of 610 x 610 mm sizes and transport case.



WARRANTY

Instruments have 1-year guarantee for any manufacturing defect (return to our After-Sales Service required for appraisal).

