



## DBM610 Airflow meter

### KEY POINTS

- Measuring range from **40 to 3500 m<sup>3</sup>/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 <sup>3</sup> /h
Accuracy*	3% of the measurement ±10 m <sup>3</sup> /h
Resolution	1 m <sup>3</sup> /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 : ±1,1°C or ±0.4% of reading value J : ±0,8°C or ±0.4% of reading value T : ±0,5°C or ±0.4% of reading value S : ±1°C or 0.4% of reading value
Resolution	0.1°C

### • PRESSURE

Measuring range	From -2500 to +2500 Pa
Accuracy*	±0.2% of reading ±2Pa
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, Ø 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).



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