



Supplied  
with  
Calibration  
certificate

## 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 <sup>3</sup> /h                |
| Accuracy*       | 3% of the measurement $\pm 10$ 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 $\pm 0.1$ °C |
| Resolution      | 0.1°C                              |

### • THERMOCOUPLE TEMPERATURE (on the micromanometer)

|                   |                                                                                                                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thermocouple type | K, J, T, S                                                                                                                                                                                                                                      |
| Measuring range   | K : from -200 to 1300°C<br>J : from -100 to 750°C<br>T : from -200 to 400°C<br>S : from 0 to 1760°C                                                                                                                                             |
| Accuracy*         | K : $\pm 1,1^\circ\text{C}$ or $\pm 0.4\%$ of reading value<br>J : $\pm 0,8^\circ\text{C}$ or $\pm 0.4\%$ of reading value<br>T : $\pm 0,5^\circ\text{C}$ or $\pm 0.4\%$ of reading value<br>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 $\pm 2$ 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<br>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<br>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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