

MICROMANOMETER

MODEL PVM620

Airflow PVM620 is a rugged, compact, comprehensive Micromanometer that measures pressure, and calculates velocity and volumetric flow rate.

It can be used with Pitot tubes to measure velocity and then calculate flow rates with user-input duct size and shape.

Premium features make it ideal for HVAC, environmental safeguards, commissioning, process control and system balancing.

SPECIFICATION

PVM620	Metric Mode	Imperial Mode
	Range ¹ -28.0 to +28.0 mm Hg, -3735 to +3735 Pa	-15 to +15 in. H ₂ O
Static/ Differential Pressure	Resolution 1 Pa, 0.01 mm Hg	0.001 in. H ₂ O
	Accuracy ±1% of reading ±1 Pa	±1% of reading ±0.01 mm Hg, ±0.005 in. H ₂ O
	Range ² 1.27 to 78.7 m/s	250 to 15,500 ft/min
Velocity From a Pitot Tube	Resolution 0.1 m/s	1 ft/min
	Accuracy ³ ±1.5% at 10.16 m/s	±1.5% at 2,000 ft/min
Duct Size	1 to 635 cm in increments of 0.1 cm	1 to 250 inches in increments of 0.1 in.
Volumetric Flow Rate	Actual range is a function of velocity, pressure, duct size, and K factor	
Instrument Temperature Range	Operating 5 to 45°C	40 to 113°F
	Storage -20 to 60°C	-4 to 140°F
Data Storage Capabilities	12,700+ samples and 100 test IDs	
Logging Interval	From 1 second to 1 hour	
Time Constant	User selectable	
External Meter Dimensions	8.4 x 17.8 x 4.4 cm	3.3 x 7.0 x 1.8 in.
Weight (with batteries)	0.27 kg	0.6 lbs
Power Requirements	Four AA-size batteries or optional AC adapter	



APPLICATIONS

- HVAC commissioning and troubleshooting
- Testing and balancing
- Pitot tube duct traverses
- Static pressure measurements
- Environmental airflow testing

FEATURES AND BENEFITS

- Measure differential and static pressure from -3735 to +3735 Pa (-15 to +15 in. H₂O)
- Calculate and display velocity when using a Pitot tube
- Calculates volumetric flow rate in duct from velocity and user-input duct size and shape
- Records data points in duct traverse using sampling function
- Data logging with time and date stamp
- Includes LogDat2™ downloading software
- Programmable K factors

	PVM620
Differential and static pressure	•
Velocity with pitot tube	•
Calibration Certificate	•
Sample statistics	•
Volumetric flow rate	•
Actual and standard velocity	•
Variable time constant	•
LogDat2 data logging software	•
K factor	•

1 Overpressure range = 7 psi (190 in. H₂O, 360 mmHg, 48 kPa).

2 Pressure velocity measurements are not recommended below 1000 ft/min (5 m/s).

3 Accuracy is a function of converting pressure to velocity. Conversion accuracy improves when actual pressure values increase.

In the interest of product development and improvement manufacturers reserve the right to alter specifications without prior notice.