

# PVM 620



## Features and Benefits:

- Measure differential and static pressure from -3735 to +3735 Pa (-15 to +15 inH<sub>2</sub>O)
- 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

Airflow PVM 620 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.

## General Specifications:

Data Storage Capabilities	12,700+ samples and 100 test IDs
Logging Interval	From 1 second to 1 hour
Time Constant	User selectable
External 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 adaptor

## Applications:

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

## Specifications:

		Metric	Imperial
Static / Differential Pressure	Range <sup>1</sup>	-28 to +28 mmHg -3735 to +3735 Pa	-15 to +15 inH <sub>2</sub> O
	Resolution	0.01 mmHg 1 Pa	0.001 inH <sub>2</sub> O
	Accuracy	± 1% of reading ± 0.001 mmHg ± 1% of reading ± 1 Pa	± 1% of reading ± 0.005 inH <sub>2</sub> O
Velocity from a Pitot Tube	Range <sup>2</sup>	1.27 to 78.7 m/sec	250 to 15,500 ft/min
	Resolution	0.1 m/sec	1 ft/min
	Accuracy <sup>3</sup>	± 1.5% at 10.16 m/sec	± 1.5% at 2,000 ft/min
Duct Size		1 to 635 cm	1 to 250 in.
		In increments of 0.1 cm	In increments of 0.1 in.
Volumetric Flow Rate		Actual range is a function of velocity, pressure, duct size and K factor	
Operating Temperature Range		5 to 45°C	40 to 113°F
Storage Temperature Range		-20 to 60°C	-4 to 140°F



## Associated Instrument Repairs

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<sup>1</sup>Overpressure range = 7 psi (190 inH<sub>2</sub>O, 360 mmHg, 48 kPa)

<sup>2</sup>Pressure velocity measurements not recommended below 1,000 ft/min (5 m/sec)

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