

# VOLUME AND PRESSURE MICROMANOMETERS MODELS PVM610 AND PVM620

## Model PVM610

The PVM610 is an easy to use, hand held digital Micromanometer for fast, accurate and reliable pressure measurement. It can also calculate velocity.

## Model PVM620

The 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.



Model PVM620

## Features and Benefits Models PVM620 and PVM610

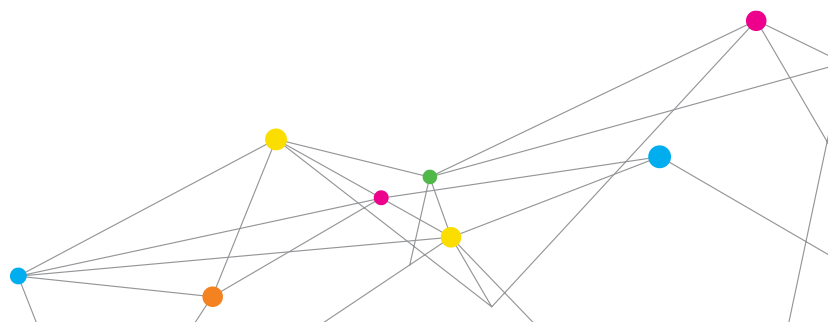
- + Measure differential and static pressure from -3735 to +3735 Pa (-15 to +15 in. H<sub>2</sub>O)
- + Calculate and display velocity when using a Pitot tube

## Added Features PVM620

- + 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 and duct dimensions

## Applications

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



# SPECIFICATIONS

## MICROMANOMETERS MODELS PVM610 AND PVM620

### Static/Differential Pressure

Range <sup>1</sup>	-28.0 to +28.0 mm Hg, -3735 to +3735 Pa (-15 to +15 in. H <sub>2</sub> O)
Accuracy	±1% of reading ±1 Pa (±0.01 mm Hg, ±0.005 in. H <sub>2</sub> O)
Resolution	0.1 Pa, 0.01 mm Hg (0.001 in. H <sub>2</sub> O)

### Velocity From a Pitot Tube

Range <sup>2</sup>	1.27 to 78.7 m/s (250 to 15,500 ft/min)
Accuracy <sup>3</sup>	±1.5% at 10.16 m/s (2,000 ft/min)
Resolution	0.1 m/s (1 ft/min)

### Duct Size (PVM620)

Dimensions	2.5 to 1270 cm in increments of 0.1 cm (1 to 500 inches in increments of 0.1 in.)
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### Volumetric Flow Rate (PVM620)

Range	Actual range is a function of velocity, pressure, duct size, and K factor
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### Instrument Temperature Range

Operating	5 to 45°C (40 to 113°F)
Storage	-20 to 60°C (-4 to 140°F)

### Data Storage Capabilities (PVM620 only)

Range	12,700+ samples and 100 test IDs
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### Logging Interval (PVM620 only)

From 1 second to 1 hour

### Time Constant (PVM620 only)

User selectable

### External Meter Dimensions

8.4 cm x 17.8 cm x 4.4 cm (3.3 in. x 7.0 in. x 1.8 in.)

### Meter Weight with Batteries

0.6 lbs (0.27 kg)

### Power Requirements

PVM620	Four AA-size batteries or optional AC adapter
PVM610	Four AA-size batteries

	PVM610	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		+

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

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

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

Specifications subject to change without notice.

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