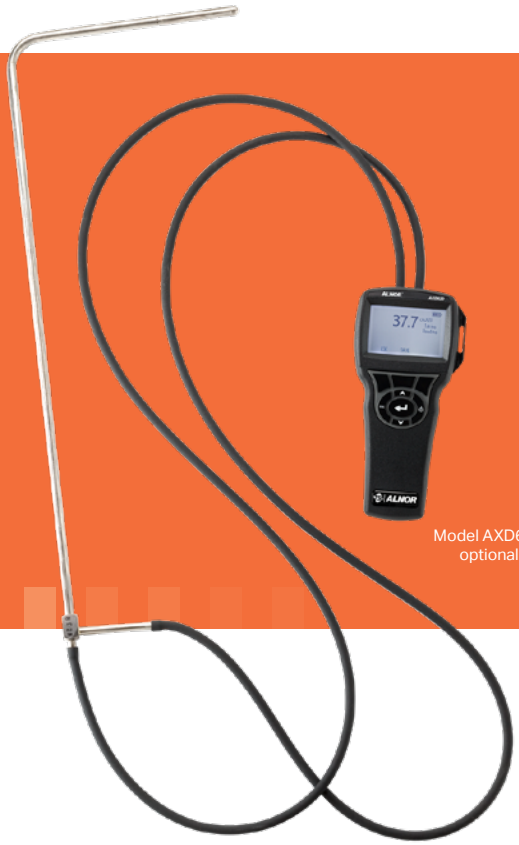
Micromanometers

Models AXD610 and AXD620



Model AXD620 shown with optional pitot probe

Model AXD610

The AXD610 is an easy to use, handheld digital Micromanometer for fast, accurate and reliable pressure measurement. It can also calculate velocity.

Features and Benefits (Model AXD610)

- Measure differential and static pressure from -15 to +15 in. H_2O (-3735 to +3735 Pa)
- Calculate and display velocity when using a Pitot tube

Additional Features and Benefits (Model AXD620)

- Calculates volumetric flow rate in duct from velocity and user-input duct size and shape
- Preset up to 5 round and rectangular duct sizes
- Preset up to 5 K factors
- Record data points
- Data logging with time and date stamp
- Programmable K factors

Model AXD620

The AXD620 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.

Applications

- HVAC commissioning and troubleshooting
- Testing and balancing
- Pitot tube duct traverses
- Static pressure measurements
- Differential pressure measurements

Specifications

Micromanometers

Models AXD610, AXD620

Static/Differential Pressure

Range[1]	-15 to +15 in. H_2O (-28.0 to +28.0 mm Hg, -3735 to +3735 Pa)
Accuracy	±1% of reading ±0.005 in. H_2O (±1 Pa, ±0.01 mm Hg)
Resolution	0.001 in. H_2O (0.1 Pa, 0.01 mm Hg)

Velocity From a Pitot Tube

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

Duct Size (AXD620)

Dimensions	1 to 500 inches in increments of 0.1 in. (2.5 to 1,270 cm in increments of 0.1 cm)

Volumetric Flow Rate (AXD620)

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

Instrument Temperature Range

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

Data Storage Capabilities (AXD620 only)

Range	12,700+ samples and 100 test IDs

Logging Interval (AXD620 only)

1 second to 1 hour

Time Constant (AXD620 only)

User selectable

External Meter Dimensions

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

Meter Weight with Batteries

0.6 lbs. (0.27 kg)

Power Requirements

AXD620	Four AA-size batteries or optional AC adapter
AXD610	Four AA-size batteries

	AXD610	AXD620
Differential and static pressure	▪	▪
Velocity with pitot tube	▪	▪
Sample statistics		▪
Volumetric flow rate		▪
Actual and standard velocity		▪
Variable time constant		▪
Variable time constant		▪
K factor		▪
Certificate of Calibration	▪	▪

[1] Overpressure range = 190 in. H_2O (7 psi, 360 mmHg, 48 kPa).
[2] Pressure velocity measurements are not recommended below 1,000 ft/min (5 m/s).
[3] Accuracy is a function of converting pressure to velocity. Conversion accuracy improves when actual pressure values increase.

Specifications are subject to change without notice.

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