

Alnor Digital Micromanometers

Models AXD610 and AXD620

The AXD610 is an easy to use, handheld digital micromanometer for fast, accurate and reliable pressure measurement. It can also calculate air velocity when used with a Pitot tube.

The AXD620 is a rugged, compact, comprehensive Micromanometer that measures pressure; it can be used with Pitot tubes to measure air velocity and then calculate flow rates with user-input duct size and shape.

It has a memory for over 12,700 measurements as well as programmable K factors. It will give actual and standard velocity readings (pressure and temperature compensated).

Applications

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

SPECIFICATIONS

Static/Differential pressure

Range ¹	-15 to +15 inches H ₂ O (-28.0 to +28.0 mmHg, -3735 to +3735 Pa)
Accuracy	±1% of reading ±0.005 inches H ₂ O (±1 Pa, ±0.01mmHg)
Resolution	0.001 inches H ₂ O (1 Pa, 0.01 mmHg)

Air Velocity

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

Duct Size

Dimensions	1.0 to 250.0 inches (1.0 to 635.0 cm)
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Volumetric Flow rate

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)

Memory (AXD620 only)

Range	Over 12,700 samples and 100 tests ids
Logging interval	1 sec to 1 hour

Time Constant (AXD620 only) User selectable

External Meter Dimensions 3.3 x 7.0 x 1.8 in (84 x 178 x 44mm); 0.6 lbs (0.27 kg)

Power Four AA size batteries or optional AC adapter (AXD620 only).

To order

AXD610	Micromanometer, hard carrying case, batteries, NIST certificate and manual
AXD620	Micromanometer, hard carrying case, one static probe, rubber hose, LogDat2 software, USB cable, batteries, NIST certificate and manual
160-12	Pitot tube 12" Dwyer, calculator
160-18	Pitot tube 18" Dwyer, calculator
160-24	Pitot tube 24" Dwyer, calculator
160-36	Pitot tube 36" Dwyer, calculator
372.000.000	Rubber hose
A-303	Static pressure probe with magnet

- 1 Overpressure max = 190 inches H₂O (7 psi, 360 mmHg, 48 kPa)
- 2 Pressure velocity measurement is 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.



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