



Anemometers



Model AVM440

Thermal Anemometers Models AVM430 and AVM440

The Model AVM430 and AVM440 are like having multiple meters for the price of one, yet they are simple to operate. Purchase instruments with a straight or articulated probe—all in one compact package.

Features and Benefits

- Accurate air velocity measurement
- Simultaneously measures temperature and velocity
- Displays up to three measurements simultaneously
- Measures humidity (AVM440)
- Articulated probe versions available
- Calculates volumetric flow, and actual/standard velocity
- Data logging and LogDat2™ downloading software included

Applications

- HVAC system performance
- Commissioning
- Plant maintenance
- Critical environment certification
- Duct traverses

Rugged. Reliable. Professional.



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Thermal Anemometers

Models AVM440 and AVM430

Specifications

Models AVM430 and AVM440

Velocity

Range 0 to 6,000 ft/min (0 to 30 m/s)
Accuracy^{1&2} $\pm 3\%$ of reading or ± 3 ft/min (± 0.015 m/s), whichever is greater
Resolution 1 ft/min (0.01 m/s)

Duct Size

Dimensions 1 to 250 inches in increments of 0.1 in. (1 to 635 cm in increments of 0.1 cm)

Volumetric Flow Rate

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

Temperature

Range (AVM430) 0 to 200°F (-18 to 93°C)
Range (AVM440) 14 to 140°F (-10 to 60°C)
Accuracy³ $\pm 0.5^\circ\text{F}$ ($\pm 0.3^\circ\text{C}$)
Resolution 0.1°F (0.1°C)

Relative Humidity (AVM440 only)

Range 0 to 95% RH
Accuracy⁴ $\pm 3\%$ RH
Resolution 0.1% RH

Wet Bulb Temperature (AVM440 only)

Range 40 to 140°F (5 to 60°C)
Resolution 0.1°F (0.1°C)

Dew Point (AVM440 only)

Range 5 to 120°F (-15 to 49°C)
Resolution 0.1°F (0.1°C)

Instrument Temperature Range

Operating (Electronics) 40 to 113°F (5 to 45°C)

Model AVM440 Operating (Probe) 0 to 200°F (-18 to 93°C)

Model AVM440 Operating (Probe) 14 to 140°F (-10 to 60°C)

Storage -4 to 140°F (-20 to 60°C)

Data Storage Capabilities

Range 12,700+ samples and 100 test IDs

Logging Interval

1 second to 1 hour

Time Constant

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)

Meter Probe Dimensions

Probe Length 40 in. (101.6 cm)

Probe Diameter of Tip 0.28 in. (7.0 mm)

Probe Diameter of Base 0.51 in. (13.0 mm)

Articulating Probe Dimensions

Articulating Section Length 7.8 in. (19.7 cm)

Diameter of Articulating Knuckle 0.38 in. (9.5 mm)

Power Requirements

Four AA-size batteries or AC adapter

	AVM430, AVM430-A	AVM440, AVM440-A
Velocity	•	•
Temperature	•	•
Flow	•	•
Humidity, wet bulb, dew point		•
Probe	Straight or -A articulated	Straight or -A articulated
Variable time constant	•	•
Manual data logging	•	•
Auto save data logging		•
Statistics	•	•
Review data	•	•
LogDat2 downloading software	•	•
Certificate of Calibration	•	•

¹ Temperature compensated over an air temperature range of 40 to 150°F (5 to 65°C).

² The accuracy statement begins at 30 ft/min through 6,000 ft/min (0.15 m/s through 30 m/s).

³ Accuracy with instrument case at 77°F (25°C), add uncertainty of 0.05°F/°F (0.03°C/°C) for change in instrument temperature.

⁴ Accuracy with probe at 77°F (25°C). Add uncertainty of 0.1% RH/°F (0.2% RH/°C) for change in probe temperature. Includes 1% hysteresis.

Specifications subject to change without notice.

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Contact your local Alnor Distributor or visit our website www.alnor.com for more detailed specifications.