VELOMETER® THERMAL ANEMOMETERS MODELS AVM410, AVM430, AND AVM440

Model AVM410
The Model AVM410 is a solid choice for a digital Air Velocity Meter, without compromising accuracy or precision. Excellent for troubleshooting HVAC systems and conducting commissioning work.

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 (Models AVM410, AVM430 and AVM440)
+ Accurate air velocity measurement
+ Large, easy to read display
+ Calibration certificate included

Features and Benefits (Models AVM430 and AVM440)
+ Simultaneously measures temperature, velocity and flow
+ Displays up to three measurements simultaneously
+ Calculates volumetric flow, and actual/standard velocity
+ Articulated probe versions available
+ Data logging and LogDat2™ downloading software included
+ Measures humidity (AVM440), dewpoint and wet bulb temperature

Applications
+ HVAC system performance
+ Commissioning
+ Plant maintenance
+ Critical environment certification
+ Duct traverses
+ Face velocity measurement
VELOMETER® THERMAL ANEMOMETERS
MODELS A VM410, A VM430 and A VM440

SPECIFICATIONS

Velocity
Range (A VM410) 0 to 4,000 ft/min (0 to 20 m/s)
Range (A VM430, A VM440) 0 to 6,000 ft/min (0 to 30 m/s)
Accuracy (A VM410 [1][2]) ±5% of reading or ±5 ft/min (±0.025 m/s), whichever is greater
Accuracy (A VM430, A VM440 [1][2]) ±3% of reading or ±3 ft/min (±0.015 m/s), whichever is greater
Resolution 1 ft/min (0.01 m/s)

Duct Size (A VM430, A VM440)
Dimensions 1 to 250 inches in increments of 0.1 in. (1 to 635 cm in increments of 0.1 cm)

Volumetric Flow Rate (A VM430, A VM440)
Range Actual range is a function of velocity, and duct size

Temperature
Range (A VM410, A VM430) 0 to 200°F (-18 to 93°C)
Range (A VM440) 14 to 140°F (-10 to 60°C)
Accuracy [3] ±0.5°F (±0.3°C)
Resolution 0.1°F (0.1°C)

Relative Humidity (A VM440 only)
Range 5 to 95% RH
Accuracy [4] ±3% RH
Resolution 0.1% RH

Wet Bulb Temperature (A VM440 only)
Range 40 to 140°F (5 to 60°C)
Resolution 0.1°F (0.1°C)

Dew Point (A VM440 only)
Range 5 to 120°F (-15 to 49°C)
Resolution 0.1°F (0.1°C)

Instrument Temperature Range
Operating (Electronics) 40 to 112°F (5 to 45°C)
A VM410 Operating (Probe) 0 to 200°F (-18 to 93°C)
A VM430 Operating (Probe) 0 to 200°F (-18 to 93°C)
A VM440 Operating (Probe) 14 to 140°F (-10 to 60°C)
Storage -4 to 140°F (-20 to 60°C)

Data Storage Capabilities (A VM430, A VM440)
Range 12,700+ samples and 100 test IDs

Logging Interval (A VM430, A VM440)
1 second to 1 hour

Time Constant (A VM430, A VM440)
User selectable

External Meter Dimensions
3.3 in. x 7.0 in. x 1.6 in. (8.4 cm x 17.8 cm x 4.4 cm)

Meter Weight with Batteries
0.6 lbs. (0.27 kg)

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. (19.8 cm)
Diameter of Articulating Knuckle 0.38 in. (9.7 mm)

Power Requirements
Four AA-size batteries or AC adapter

<table>
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<tr>
<th>Specification</th>
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<th>A VM430, A VM440-A</th>
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<tr>
<td>Velocity range</td>
<td>0 to 4,000 ft/min (0 to 20 m/s)</td>
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<tr>
<td>Temperature range</td>
<td>0 to 6,000 ft/min (0 to 30 m/s)</td>
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<tr>
<td>Temperature</td>
<td>±0.5°F (±0.3°C)</td>
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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 4,000 ft/min (0.15 m/s through 20 m/s) for the Model A VM410, and 30 ft/min through 6,000 ft/min (0.15 m/s through 30 m/s) for Models A VM430 and A VM440.
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.

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Specifications subject to change without notice.