

#### 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

Models 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

## 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
- Measures humidity (AVM440), dewpoint and wet bulb temperature

#### **Applications**

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



### **Specifications**

# Velometer™ Thermal Anemometers

Models AVM410, AVM430 and AVM440

**Velocity** 

Range (AVM410) 0 to 4,000 ft/min (0 to 20 m/s) Range (AVM430, AVM440) 0 to 6,000 ft/min (0 to 30 m/s) Accuracy (AVM410)182 ±5% of reading or ±5 ft/min (±0.025 m/s), whichever is greater

Accuracy

(AVM430, AVM440)182 ±3% of reading or ±3 ft/min

(±0.015 m/s), whichever is greater

Resolution 1 ft/min (0.01 m/s)

Duct Size (AVM430, AVM440)

Dimensions 1 to 250 inches in increments of 0.1 in.

(1 to 635 cm in increments of 0.1 cm)

Volumetric Flow Rate (AVM430, AVM440)

Actual range is a function of Range

velocity and duct size

**Temperature** 

Range (AVM410, AVM430) 0 to 200°F (-18 to 93°C) Range (AVM440) 14 to 140°F (-10 to 60°C)

Accuracy<sup>3</sup> ±0.5°F (±0.3°C) Resolution 0.1°F (0.1°C)

Relative Humidity (AVM440 only)

Range 5 to 95% RH Accuracy<sup>4</sup> +3% RH Range 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)** 

5 to 120°F (-15 to 49°C) Range

Resolution 0.1°F (0.1°C)

**Instrument Temperature Range** 

40 to 113°F (5 to 45°C) Operating (Electronics) AVM410 Operating (Probe) 0 to 200°F (-18 to 93°C) AVM 430 Operating (Probe) 0 to 200°F (-18 to 93°C) AVM440 Operating (Probe) 14 to 140°F (-10 to 60°C) Storage -4 to 140°F (-20 to 60°C)

Data Storage Capabilities (AVM430, AVM440)

12,700+ samples and 100 test IDs

Logging Interval (AVM430, AVM440)

1 second to 1 hour

Time Constant (AVM430, AVM440)

0.6 lbs. (0.27 kg)

**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)

**Probe Dimensions** 

40 in. (101.6 cm) Probe Length 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

	AVM410	AVM430, AVM430-A	AVM440, AVM440-A
Velocity range 0 to 4,000 ft/min (0 to 20.00 m/s)	•		
Velocity range 0 to 6,000 ft/min (0 to 30.00 m/s)		•	•
Temperature	•	•	•
Flow		=	-
Humidity, wet bulb, dew point			•
Probe	Straight	Straight or -A articulated	Straight or -A articulated
Variable time constant		•	•
Manual data logging		=	•
Auto save data logging			•
Statistics		-	
Review data			•
Certificate of Calibration	•	-	•

- Temperature compensated over an air temperature range of 40 to 150°F (5 to 65°C).
- The accuracy statement begins at 30 ft/min through 4,000 ft/min. (0.15 m/s through 20 m/s) for the Model AVM410, and 30 ft/min through 6,000 ft/min (0.15 m/s through
- 30 m/s) for Models AVM430 and AVM440.
  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.

  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 are subject to change without notice.

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