

Alnor Thermal Anemometers

Models AVM430 and AVM440

Owning a model AVM430 or AVM440 is 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
- 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

SPECIFICATIONS

Velocity

Range	0 to 6000 ft/min, 0 to 30 m/s
Accuracy ^{1 and 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

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 and duct size
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Temperature

Range (AVM430)	-18 to 93°C, 0 to 200°F
Range (AVM440)	-10 to 60°C (14 to 140°F)
Accuracy ³	±0.3°C, ±0.5°F
Resolution	0.1°

Relative Humidity (AVM440 only)

Range	0 to 95% HR
Accuracy ⁴	±3%
Resolution	0.1%

Wet Bulb Temperature (AVM440 only)

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

Dew Point Temperature (AVM440 only)

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

Instrument Temperature Range

Operating (Electronics)	5 to 45°C, 40 to 113°F
AVM430 Operating (probe)	-18 to 93°C, 0 to 200°F
AVM440 Operating (probe)	-10 to 60°C (14 to 140°F)
Storage	-20 to 60°C (-4 to 140°F)

Data Storage Capabilities

Memory	12,700+ samples and 100 test lds
Logging interval	1 second to 1 hour

Time Constant User selectable



Case dimensions 3.3 x 7.0 x 1.8 in (84 x 178 x 44mm);
0.6 lbs (0.27 kg)

Probe dimensions

Meter Probe	40 in (1016 mm) long, 0.28 in (7 mm) dia (tip), 0.51 in (13 mm) dia (base)
Articulated Section	7.8 in (197 mm) long
Diameter of articulated knuckle	0.38 in (9.5 mm)

Power requirements Four AA-size batteries or AC adapter

To order

AVM430	Thermal Anemometer, hard carrying case, USB cable and LogDat2 software, manual data logging, batteries, NIST certificate and user manual
AVM430A	Thermal Anemometer, articulated probe, hard carrying case, USB cable and LogDat2 software, manual data logging, batteries, NIST certificate and user manual
AVM440	Thermal Anemometer, hard carrying case, USB cable and LogDat2 software, manual and auto-save data logging, batteries, NIST certificate and user manual
AVM440A	Thermal Anemometer, articulated probe, hard carrying case, USB cable and LogDat2 software, manual and auto-save data logging, batteries, NIST certificate and user manual
801761	Universal AC adapter

- 1 Temperature compensated over an air temperature range of 5 to 65°C (40 to 150°F)
- 2 The accuracy statement begins at 30 to 4000 ft/min (0.15 to 20 m/s)
- 3 Accuracy with the instrument case at 25°C (77°F), add uncertainty of 0.03°C/°C (0.05°F/°F) for change in instrument temperature
- 4 Accuracy with the probe at 25°C (77°F), add uncertainty of 0.2%/°C (0.1%/°F) for change in instrument temperature. Includes 1% hysteresis



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