



Rotating Vane Anemometers



Model RVA501

Model RVA801

Rotating Vane Anemometers Model RVA801

Model RVA801 is a light weight, robust, and simple to use Rotating Vane Anemometer that provides accurate and reliable readings every time. Ideal for HVAC commissioning at grilles, ducts, and diffusers; the RVA801 displays readings in metric or imperial mode.

Features and Benefits

- Reversible 4-in. (100-mm) head allows readings at supply and extract grilles
- Calculates volumetric flow rate
- Compatible with Aircone Flow Hoods
- No density correction factors required
- Automatic averaging of air velocity

Rotating Vane Anemometers Model RVA501

Model RVA501 is a hand held digital Rotating Vane Anemometer used for air velocity and volumetric flow measurements.

Features and Benefits

- Measures velocity and temperature
- Sweep mode for one overall measurement
- Log, store, and recall data
- Download data to a PC
- Optional telescopic probe available

Rugged. Reliable. Professional.



Rotating Vane Anemometers

Models RVA501 and RVA801

Specifications

Models RVA501 and RVA801

Velocity

Range 50 to 6,000 ft/min (0.25 to 30 m/s)
Accuracy $\pm 1.0\%$ of reading ± 4 ft/min (± 0.02 m/s)

Duct Size

Range
RVA501 0 to 173.6 ft² (0 to 16 m²)
RVA801 0.043 to 900 ft² (0.00399 to 90 m²)

Volumetric Flow Rate

Range Actual range is a function of velocity and duct area

Temperature

Range 32 to 140°F (0 to 60°C)
Accuracy $\pm 2.0^\circ\text{F}$ ($\pm 1.0^\circ\text{C}$)
Resolution 0.1°F (0.1°C)

Instrument Temperature Range

RVA801
Operating 32 to 140°F (0 to 60°C)
Storage 14 to 140°F (-10 to 60°C)

RVA501

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

Operating (Vane Head)

32 to 140°F (0 to 60°C)
Storage -4 to 140°F (-20 to 60°C)

Data Storage Capabilities (RVA501 only)

Range 12,700+ samples and 100 test IDs

Logging Interval (RVA501 only)

From 1 second to 1 hour

Time Constant (RVA501 only)

User selectable

External Meter Dimensions

RVA501 3.3 in. x 7.0 in. x 1.8 in.
(8.4 cm x 17.8 cm x 4.4 cm)

RVA801 4.5 in. x 11 in. x 2.6 in.
(1.2 cm x 28 cm x 6.5 cm)

Meter Weight with Batteries

RVA801 11.6 oz. (329 g)
RVA501 0.6 lbs. (0.27 kg)

Power Requirements

RVA801 9-volt battery
RVA501 Four AA-size batteries or AC adapter

Aircone Flow Hoods

Aircone Flow Hoods are a fast and accurate method of maximizing the usefulness of your 4-in. (100 mm) rotating vane anemometers. For a modest investment, you can enhance the capability of your rotating vane, turning it into an air volume flow balancing tool.

Features and Benefits

- Rectangular and circular cones available
- Measures volumetric flow at grilles and diffusers
- Reads air volume quickly and accurately
- Excellent choice for small grilles

Specifications

Aircone Flow Hoods

Range (with RVA801)

0 to 210 cfm (0 to 0.1 m³/s)

Size

Rectangular Hood 11.2 in. x 9.2 in. (285 mm x 235 mm)
Round Hood 7.1 in. (180 mm) diameter

Weight (includes case)

2.4 lbs (1.1 kg)

	RVA801	RVA501
Temperature	•	•
Velocity	•	•
4-in. (100-mm) reversible head	•	•
Flow	•	•
Telescoping handle (optional)		•
Data logging, recall, review, download		•
Use with Aircone flow hoods	•	•
Certificate of Calibration	•	•

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.