



## 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** ±1.0% of reading ±4 ft/min (±0.02 m/s)

### Duct Size

**Range**  
**RVA501** 0 to 173.6 ft<sup>2</sup> (0 to 16 m<sup>2</sup>)  
**RVA801** 0.043 to 900 ft<sup>2</sup> (0.00399 to 90 m<sup>2</sup>)

### 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** ±2.0°F (±1.0°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 m<sup>3</sup>/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](http://www.alnor.com) for more detailed specifications.