



# Rotating Vane Anemometers

Models RVA501 and RVA801



## Model RVA501

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

### Features and Benefits (Model RVA501)

- Measures velocity and temperature
- Calculates flow
- Simultaneous display of up to three measurements
- Log, store, and recall data
- Download data to a PC
- Optional telescopic probe available
- Compatible with Aircone Flow Hoods

## Model RVA801

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

### Features and Benefits (Model RVA801)

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



## Specifications

# Rotating Vane Anemometers

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)
Resolution	1 ft/min (0.01 m/s)

### Area Size Input

Range	
RVA501	0 to 500 ft <sup>2</sup> (0 to 46.45 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 area
-------	---

### Temperature

Range	40 to 113°F (5 to 45°C)
Accuracy	±2.0°F (±1.0°C)
Resolution RVA501	0.1°F (0.1°C)
Resolution RVA801	1°F (0.1°C)

### Instrument Temperature Range

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

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

### Power Requirements

RVA501	9-volt battery
RVA801	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 small grilles and diffusers
- Reads air volume quickly and accurately

### Range (with RVA501 or RVA801)

0 to 210 cfm (0 to 100 l/s, 0 to 360 m<sup>3</sup>/h)

### 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	▪	▪

## To Order

RVA801 Rotating Vane Anemometer with carrying case, 9V alkaline battery, operations manual, and calibration certificate.

RVA501 Rotating Vane Anemometer with carrying case, alkaline batteries, operations manual, calibration certificate and USB cable.

### Accessories

Specify	Description
801750	Round and rectangular Aircone kit
801745	Rectangular Aircone only
9565-A-NB	Telescopic, articulated extension 1.3 to 3.6 ft (0.4 to 1.1 m) RVA501 only

Specifications are subject to change without notice.

TSI and the TSI logo are registered trademarks of TSI Incorporated in the United States and may be protected under other country's trademark registrations.



Alnor Products, TSI Incorporated

Visit our website at [www.alnor.com](http://www.alnor.com) for more information.

<b>USA</b>	<b>Tel:</b> +1 800 874 2811	<b>China</b>	<b>Tel:</b> +86 10 8219 7688
<b>India</b>	<b>Tel:</b> +91 80 67877200	<b>Singapore</b>	<b>Tel:</b> +65 6595 6388