

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

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

SPECIFICATIONS

Velocity

Range	50 to 6000 ft/min, 0.25 to 30 m/s
Accuracy	±1% of reading or ±4 ft/min (±0.02 m/s), whichever is greater

Duct size

RVA501	0 to 173.6 ft ² , (0 to 16 m ²)
RVA801	0.043 to 900 ft ² , (0.00399 to 90 m ²)

Volumetric Flow Rate

Range	Actual range is a function of velocity and duct size
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Temperature

Range	0 to 60°C (32 to 140°F)
Accuracy	±0.6°C, ±1°F
Resolution	0.1°

Instrument Temperature Range

RVA801	0 to 60°C (32 to 140°F)
Storage	-10 to 60°C (14 to 140°F)
RVA501	
Working (Electronics)	5 to 45°C, 40 to 113°F
Working (vane head)	0 to 60°C (32 to 140°F)
Storage	-20 to 60°C (-4 to 140°F)

Data Storage (RVA501 only)

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

Time Constant (RVA501 only)

User selectable

External Meter Dimensions

RVA501	3.3 x 7.0 x 1.8 in (84 x 178 x 44mm); 0.6 lbs (0.27 kg)
RVA801	4.5 x 11 x 2.6 in (12 x 280 x 65mm); 11.6 oz (329 g)

Power Requirements

RVA801	One 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

Range (with RVA801)	0 to 210 ft ³ /min (0 to 0.1 m ³ /s)
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Dimensions

Rectangular hood	11.2 x 9.2 in (285 x 235mm)
Round hood	7.1 in (180mm) dia

Weight (including case)	2.4 lbs (1.1 kg)
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To order

RVA801	Rotating Vane Anemometer one piece 100mm head, carrying case, batteries, NIST certificate and user manual
RVA501	Rotating Vane Anemometer 100mm, hard carrying case, USB cable and LogDat2 software, manual and auto-save data logging, batteries, NIST certificate and user manual
801750	Aircone Kit, rectangular and round
801761	Universal Power Supply
801748	RV telescopic rod



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