



Rotating Vanes



Model LCA501

Model LCA301

Rotating Vane Anemometers Model LCA301

Model LCA301 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 LCA301 displays readings in metric or imperial mode.

Features and Benefits

- Reversible 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 LCA501

Model LCA501 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

Accurate. Reliable. Every Time.

Anemometers

Rotating Vane Anemometers

Models LCA301 and LCA501

Specifications

Models LCA301 and LCA501

Velocity	
Range	0.25 to 30 m/s (50 to 6,000 ft/min)
Accuracy	±1.0% of reading ±0.02 m/s (±4 ft/min)
Duct Size	
Range	
LCA301	0.00399 - 90 m ² (0.043 - 900 ft ²)
LCA501	0 - 16 m ² (0 - 173.6 ft ²)
Volumetric Flow rate	
Range	Actual range is a function of velocity and duct area
Temperature	
Range	0 to 60°C (32 to 140°F)
Accuracy	±1.0°C (±2.0°F)
Resolution	0.1°C (0.1°F)
Instrument Temperature Range	
LCA301	
Operating	0 to 60°C (32 to 140°F)
Storage	-10 to 60°C (14 to 140°F)
LCA501	
Operating (Electronics)	5 to 45°C (40 to 113°F)
Operating (Vane Head)	0 to 60°C (32 to 140°F)
Storage	-20 to 60°C (-4 to 140°F)
Data Storage Capabilities (LCA501 only)	
Range	12,700+ samples and 100 test IDs
Logging Interval (LCA501 only)	
From 1 second to 1 hour	
Time Constant (LCA501 only)	
User selectable	
External Meter Dimensions:	
LCA301	1.2 cm x 28 cm x 6.5 cm (4.5 in. x 11 in. x 2.6 in.)
LCA501	8.4 cm x 17.8 cm x 4.4 cm (3.3 in. x 7 in. x 1.8 in.)
Meter Weight with batteries:	
LCA301	329 g (11.6 oz.)
LCA501	270 g (9.6 oz.)
Power Requirements:	
LCA501	9-volt battery
LCA301	Four AA-size batteries or AC adapter

	LCA301	LCA501
Temperature	•	•
Velocity	•	•
100 mm reversible head	•	•
Flow, sweep mode	•	•
Telescoping handle (optional)		•
Data logging, recall, review, download		•
Use with Aircone flow hoods	•	•
Free Certificate of Calibration	•	•

Aircone Flow Hoods

Aircone Flow Hoods are a fast and accurate method of maximizing the usefulness of your 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 in l/s, m³/h, or cfm
- Reads air volume quickly and accurately
- Excellent choice for small grilles

Specifications

Aircone Flow Hoods

Size

Rectangular cone	285 mm x 235 mm (11 in. x 9 in.)
Round cone	180 mm (7 in.) diameter

Range (with LCA301 or LCA501)

0 to 100 l/s (0 to 210 cfm)

Weight (includes case)

1.1 kg (2.4 lbs)

Ordering Information

LCA301	Rotating Vane Anemometer with carrying case, 9V alkaline battery, operations manual, and calibration certificate.
LCA501	Rotating Vane Anemometer with carrying case, alkaline batteries, operations manual, calibration certificate, USB cable, and LogDat2™ downloading software.

Rotating Vane Anemometer Kits

AFL72900001 Kit includes LCA301 Rotating Vane Anemometer with square Aircone

Accessories

AFL72852201	Round and rectangular Aircone kit
AFL72852204	Round Aircone only
AFL71933702	Telescopic, articulated extension (LCA501 only)

Specifications subject to change without notice.
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