



® Knowledge Beyond Measure.

Rotating Vane Anemometers

Models LCA301 and LCA501



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, filters, and kitchen exhausts; 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 office or home
- No density correction factors required
- Automatic averaging of air velocity

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
- Compatible with Aircone Flow Hoods



Specifications

Rotating Vane Anemometers

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

Duct Size

LCA301	0.00399 - 90 m ² (0.043 - 900 ft ²)
LCA501	0 - 46.45 m ² (0 - 500 ft ²)

Volumetric Flow Rate

Actual range is a function of velocity and area

Temperature

Range	5 to 45°C (40 to 113°F)
Accuracy	±1.0°C (±2.0°F)
Resolution LCA301	0.1°C (1°F)
Resolution LCA501	0.1°C (0.1°F)

Instrument Temperature Range

Operating	5 to 45°C (40 to 113°F)
Storage	-20 to 60°C (-4 to 140°F)

Data Storage Capabilities (LCA501 only)

Range	12,700+ samples and 100 test IDs
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Logging Interval (LCA501 only)

From 1 second to 1 hour

Time Constant (LCA501 only)

User selectable

External Meter Dimensions

LCA301	12 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

LCA301	9-volt battery
LCA501	Four AA-size batteries or AC adapter

Specifications are subject to change without notice.

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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 ft³/min
- Reads air volume quickly and accurately
- Excellent choice for small grilles
- Meets the HM Government Building Regulations of 2010 when using the rectangular aircone

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 360 m³/h (0 to 210 ft³/min)

Weight (includes case)

1.1 kg (2.4 lbs)

	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	▪	▪

To Order

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 and USB cable.

Rotating Vane Anemometer Kits

AFL72900001	Kit includes LCA301 Rotating Vane Anemometer with rectangular Aircone
AFL72900002	Kit includes LCA501 Rotating Vane Anemometer with rectangular Aircone

Accessories

AFL72852201	Round and rectangular Aircone kit
AFL72852204	Round Aircone only
AFL71933702	Telescopic, articulated extension (LCA501 only) 0.4 to 1.1 m (1.3 to 3.6 ft)



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