Rotating Vanes

Model LCA501

Model LCA301

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
- Compatible with Aircone Flow Hoods

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, filters, and kitchen exhausts; the LCA301 displays readings in metric or imperial mode.

Accurate. Reliable. Every Time.

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

Duct Size
Range
LCA301 0.00399 - 90 m^2 (0.043 - 900 ft^2)
LCA501 0 - 46.45 m^2 (0 - 500 ft^2)

Volumetric Flow rate
Range Actual range is a function of velocity and duct area
Resolution
LCA301 <100; 0.1 l/s, 0.1 m^3/hr, 0.1 ft^3/min
LCA501 <100; 0.01 l/s, 0.01 m^3/hr, 0.01 ft^3/min

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

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, m^3/h, or ft^3/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 m^3/h (0 to 210 ft^3/min)

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 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)

Specifications subject to change without notice.
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