# 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.

### Model LCA501

Model LCA501 is a hand held digital Rotating Vane Anemometer used for air velocity and volumetric flow measurements.



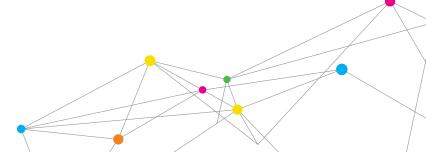
## Features and Benefits (Model LCA301)

- + 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

## Added Features and Benefits (Model LCA501)

- + 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

0.25 to 30 m/s (50 to 6,000 ft/min) Range Accuracy ±1.0% of reading ±0.02 m/s (±4 ft/min)

Resolution 0.01 m/s (1 ft/min)

**Duct Size** 

Range LCA301 LCA501

 $\begin{array}{c} 0.00399 - 90 \ m^2 \ (0.043 - 900 \ ft^2) \\ 0 - 46.45 \ m^2 \ (0 - 500 \ ft^2) \end{array}$ 

Volumetric Flow rate

Actual range is a function of velocity and duct area Range

Resolution

LCA301 LCA501 <100; 0.1 l/s, 0.1 m<sup>3</sup>/hr, 0.1 ft<sup>3</sup>/min <100; 0.01 l/s, 0.01 m³/hr, 0.01 ft³/min

**Temperature** 

5 to 45°C (40 to 113°F) Range 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** 

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

Data Storage Capabilities (LCA501 only)

12,700+ samples and 100 test IDs Range

Logging Interval (LCA501 only)

From 1 second to 1 hour

Time Constant (LCA501 only)

User selectable

**External Meter Dimensions:** 

1.2 cm x 28 cm x 6.5 cm (4.5 in. x 11 in. x 2.6 in.) 8.4 cm x 17.8 cm x 4.4 cm (3.3 in. x 7 in. x 1.8 in.) LCA301

Meter Weight with batteries:

329 g (11.6 oz.) 270 g (9.6 oz.) LCA301 LCA501

**Power Requirements:** 

9-volt battery LCA501

LCA301 Four AA-size batteries or AC adapter

Specifications 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

 $285\,\text{mm}\,x\,235\,\text{mm}$  (11 in.  $x\,9$  in.) Rectangular cone 180 mm (7 in.) diameter Round cone

Range (with LCA301 or LCA501)

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

Rotating Vane Anemometer with carrying case, 9V alkaline battery, operations manual, and calibration LCA301

certificate.

LCA501 Rotating Vane Anemometer with carrying case, alkaline

batteries, operations manual, calibration certificate, USB cable, and LogDat2™ downloading software.

**Rotating Vane Anemometer Kits** 

Kit includes LCA301 Rotating Vane Anemometer AFL72900001

with rectangular Aircone

AFL72900002 Kit includes LCA501 Rotating Vane Anemometer

with rectangular Aircone

Accessories

AFI.72852201 Round and rectangular Aircone kit

AFL72852204 Round Aircone only

AFL71933702 Telescopic, articulated extension (LCA501 only)



Airflow Instruments, TSI Instruments Ltd.

Visit our website at **www.airflowinstruments.co.uk** for more information.

Tel: +44 149 4 459200 France Tel: +33 491 11 87 64

**Germany Tel:** +49 241 523030



Rietdekkerstraat 6 2984 BM Ridderkerk T: +31 (0)180 46 34 11 info@observator.com www.observator.com