



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 $\pm 1.0\%$ of reading ± 0.02 m/s (± 4 ft/min)

Duct Size

Range
LCA301 0.00399 - 90 m² (0.043 - 900 ft²)
LCA501 0 - 16 m² (0 - 173.6 ft²)

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 $\pm 1.0^\circ\text{C}$ ($\pm 2.0^\circ\text{F}$)
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 7.0 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

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, diffusers, and linears
- Reads air volume quickly and accurately
- Excellent choice for small grilles



	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	•	•

Specifications subject to change without notice.

AIRFLOW Instruments, TSI Instruments Ltd.

Lancaster Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3QP, England

UK Tel: +44 149 4 459200 E-mail: info@airflowinstruments.co.uk

France Tel: +33 491 95 21 90 E-mail: tsifrance@tsi.com

Germany Tel: +49 241 523030 E-mail: tsigmbh@tsi.com

Sweden Tel: +46 8 595 13230 E-mail: tsiab@tsi.com

Contact your local AIRFLOW Distributor or visit our website www.airflowinstruments.co.uk for more detailed specifications.