

a subsidiary of Airflow Developments Ltd, a **QUALITY ASSURED** Company to ISO 9001

## The LCA range of Anemometers

**LCA6000, LCA6000VT and LCA6000RVT for Velocity**

**LCA6000VA for Velocity and Volume Flow**

**LCA30iS (Intrinsically Safe) for Velocity and Volume Flow**



### **‘JUST HAND IT TO AIRFLOW’**

The LCA range of hand held rotating vane anemometers offers a superb choice of models featuring automatic averaging of air velocity through to direct readings of volume flow rate, even in hazardous areas.

All models have an integral Metric/Imperial display selector switch as standard.

The LCA6000 has a single push-button control in the hand-grip. When this button is pressed and held down, the instrument averages the air velocity over 3 seconds (Metric display) or 6 seconds (Imperial display). The air velocity is displayed digitally and the reading is held as long as the button remains depressed.

The LCA6000VT, LCA6000RVT, LCA6000VA and LCA30iS average approximately every 3 seconds and can be used over a variable time base up to 12 minutes duration.

The LCA6000RVT is specially calibrated in reverse so that the digital display faces the operator during monitoring of fume cupboards and laminar

flow cabinets. It is also supplied with a certificate of calibration with plotted results for velocities up to 5m/sec ensuring a higher degree of accuracy for these low velocity extract situations.

The LCA6000VA and LCA30iS have the facility to input the area of the duct or grille to be monitored and to give the resulting reading as volume flow in cfm,(cubic feet per minute) or m<sup>3</sup>sec, (cubic metres per second). The area is easily changed for each new application.

All versions are robust and reliable and can be used with one hand. The lightweight casing is aerodynamically designed in high impact ABS.

An extremely helpful option is the [AIRCONE](#) kit. An inexpensive kit containing a circular and rectangular moulded hood for air balancing which simply clips onto the vane probe to provide direct air volume flow readings from grilles, linears and diffusers.

Calibrated to an Internationally recognised standard the LCA is supplied with a **FREE TRACEABLE CERTIFICATE OF CALIBRATION** and a reply card is also included for purchasers to register with our FREE annual calibration reminder service.

All Airflow™ instruments, including the LCA, are designed to help meet the stringent requirements of the Control Of Substances Hazardous to Health (COSHH) and Building Regulations in the UK.

For our UK customers the reminder card service ensures valid certification for COSHH, ISO9001 and Quality Assurance requirements.

## **THE LCA ADVANTAGE**

### **FEATURES**

- Choice of direct velocity or volume flow in m/sec; ft/min; m<sup>3</sup>/sec and ft<sup>3</sup>/min.
- Clear digital display.
- Fast response with superb accuracy.
- Intrinsically safe unit available.

### **BENEFITS**

- High specification at low cost
- Lightweight tough with an ergonomic design
- One hand operation.
- Quick and user friendly.
- Comparative values - everytime.

### **APPLICATION**

- Grilles, louvres and flow hood balancing
- HVAC commissioning and trouble shooting
- Air conditioning and ventilation duct checks

- Laboratory safety monitoring.

Parameter	Metric Mode	Imperial Mode
<b>Information common to all LCA anemometers</b>		
Operating Environment	Barometric Pressure: 500 mbar to 2 bar Temperature: -10°C to 50°C	Barometric Pressure: 15 in Hg to 60 in Hg Temperature: 14°F to 122°F
Velocity Resolution	0.01 m/sec	1 ft/min
Overall Dimensions Instrument only	268mm × 113mm × 43mm deep	10.55 in × 4.44 in × 1.69 in deep
Weight less batteries	260g	0.62 lb
Power Supply	1 only 9v battery type PP3 or equivalent IEC ref 6F22 standard, alkaline or rechargeable Note: Zinc Carbon only for use of iS version in hazardous areas	
Battery Life	50 hours continuous life (alkaline batteries)	
<b>Items specific to LCA6000</b>		
Velocity range	0.25 to 30 m/sec	50 to 6000 ft/min
Accuracy at 20°C and 1013 mbar	0.25 to 4.99 m/sec ±0.1 m/sec  5 to 30 m/sec calibrated better than ±2% of reading	50 to 999 ft/min ±20 ft/min  1000 to 6000 ft/min calibrated better than ±2% of reading
<b>Items specific to LCA6000VT, LCA6000RVT, LCA6000VA and LCA30iS</b>		
Velocity range	0.25 to 30 m/sec	50 to 6000 ft/min
Maximum averaging time	12 minutes	
Accuracy at 20°C and 1013 mbar	Calibrated better than ±1% of reading ±1 digit	
<b>Items specific to LCA6000VA and LCA30iS</b>		
Volume range displayable	0.002 to 3000 m <sup>3</sup> /sec	4 to 999999 cfm
Area input range	0.008 to 90 m <sup>2</sup>	0.08 to 900 ft <sup>2</sup>