

QUALITY ASSURED TO ISO 9001 - CUSTOMER CARE BY ISO 9002

## ANEMOSONIC™ UA6

### TOMORROWS' TECHNOLOGY TODAY



Having led the world for over 40 years in Airflow instrumentation we are proud to introduce: -

The future in Air Flow Instrumentation.

### THE ANEMOSONIC™ UA6

"Airflow measurement at an ultrasonic speed"

**The ultrasonic technology used in the UA6 never needs re-calibration as the sensor is unaffected by airstream temperature, pressure or air/gas density**

*(limited only by materials of manufacture)*

The UA6 measures air velocity, volume flow and airstream temperature with readings displayed in m/sec, ft/min, mph, knots, kph, cfm, m<sup>3</sup>/sec, °C or °F, all in one hand held instrument.

Having researched and developed our own unique ultrasonic technology, Airflow now offers a world first in accurate measurement for clean air and inert gas flows using a truly compact 3 pole sensor that is less than 60 mm (2.4") in diameter.

Two unique features are the rapid speed of response achieved through over 3,600 readings being taken every second and the ability to read and display percentage flow turbulence. Percentage turbulence is now being recognised as a necessity when ensuring indoor comfort levels and air quality.

With a reading response rate of less than one millisecond the Anemosonic™ UA6 ensures unequalled repeatability and accuracy in a hand held instrument offering a world beating measuring range from 0.01 m/sec (2ft/min) to 50 m/sec (9850 ft/min).

The UA6 is virtually maintenance free and can be used in damp or mildly dusty atmospheres. The three pole sensor configuration is self compensating so that even with a 40° spread (± 20°) from the

airstream centreline accurate measurements are still guaranteed. This superb yaw & pitch characteristic (see Tech Topic I001) makes for an invaluable instrument.

The UA6 has a built in list of user friendly options allowing everything from simple testing to long term monitoring and with the in built RS232 output, the units' readings are down loadable into a WINDOWS<sup>®</sup> format for on going processing and recording.

Calibrated to an Internationally recognised standard the UA6 is supplied with a **FREE TRACEABLE CALIBRATION CERTIFICATE** and a reply card is also included for purchasers to register with our FREE annual calibration reminder service where an annual check is required.

All Airflow<sup>™</sup> instruments including the UA6 are designed to help meet the stringent requirements of the Control Of Substances Hazardous to Health (COSHH) and Building Regulations in the UK.



### **THE UA6 ADVANTAGE:**

#### **FEATURES**

- Absolute calibration for life
- No moving parts
- Air turbulence monitoring - a unique UA6 feature
- Zero drift technology
- Laser Doppler calibration
- Exceptional Yaw and Pitch characteristics
- Bar graph turbulence indicator
- Compact sensor
- Self diagnostic
- RS232 digital and analogue outputs
- Diagnostic microprocessor
- Real time and stored readings
- Manual or auto logging
- Av/max/min with memory
- Auto shut off
- High clarity display and back light

#### **APPLICATIONS**

- Test and Calibration
- Building Energy Management Systems

- Inert gas flows
- Heating Ventilating and Air Conditioning
- Process control, IAQ and environmental
- Aeronautical R & D
- Air and Gas flow
- Wind Tunnel certification
- Meteorological and wind power
- Maritime
- Laboratory and COSHH
- Military
- Tunnel ventilation
- Offshore rigs

## BENEFITS

- Unaffected by Temperature, Pressure and relative humidity
- Ease of use, Lightweight and Highly accurate
- 100% repeatable readings
- Exceptionally reliable - no moving parts
- Saves on annual re-calibration costs
- Mountable sensor
- Unattended logging
- Fast response
- Low investment cost
- Use in air and non hazardous gas flows
- Rugged and durable
- Equally accurate at high and low flows
- Self-cleaning sensor (light dust)
- Helps compliance with European CEN air quality requirements
- Transfer Calibration standard.

## SPECIFICATION

PARAMETER	METRIC MODE	IMPERIAL MODE
Velocity Range	0-50 m/sec	0-9999 ft/min
Volume Range	0-5000 m <sup>3</sup> /sec	0-9999 x 10 <sup>3</sup> ft <sup>3</sup> /min
Accuracy	Better than ±1% of reading ±1 digit	
Velocity Resolution	0.01 m/sec	2 ft/min
Temperature Range	0-80 <sup>0</sup> C	32 <sup>0</sup> to 176 <sup>0</sup> F
Temperature Accuracy	±1.0 <sup>0</sup> C	±2 <sup>0</sup> F
Temperature Resolution	0.1 <sup>0</sup> C	1 <sup>0</sup> F
Flow Turbulence Intensity (Tu)	2-digit display 0-99% resolution 1%	
Area Input Range	0.004-99.99m <sup>2</sup>	0.0431-999.9ft <sup>2</sup>
Linear Input Range (subject to area limits)	0.0001-9999m	1/8"-9999ft
Memory Size	99 readings of velocity, temperature and turbulence (note flow data is stored as a velocity)	
Auto Logging variable time base	5 seconds to 99 minutes 59 seconds	
Analogue Output	0-1 volt (0-0.5v and 0-2v also available)	
Digital Output	RS232	
Power Supply	4 x 1.5volt AA cells. (rechargeable, zinc carbon or alkaline)	
Battery Life	20 hrs	

Overall Dimensions	92 x 32 x 188mm	3.6 x 1.2 x 7.4ins
Instrument Operating Environmental temp. range	-10 <sup>0</sup> C to +50 <sup>0</sup> C	14 <sup>0</sup> F to 122 <sup>0</sup> F
Storage temperature range	-20 <sup>0</sup> C to +60 <sup>0</sup> C	-4 <sup>0</sup> F to 140 <sup>0</sup> F
Ultrasonic Sensor Operating Environment	0 <sup>0</sup> C to 80 <sup>0</sup> C	32 <sup>0</sup> F to 176 <sup>0</sup> F
Weight (less batteries)	440g	0.97lb
Standard Kit	UA6 Anemometer Ultrasonic sensor Handle & Telescopic extension rod with swivelling joint 0.4 to 1.1M (15" to 43") Executive carry case Calibration certificate Batteries Software incl. for i.e. Excel-application	
Optional Accessories	P.C. Connection cables Battery eliminator for mains operation APU 10 Mini Printer Neck strap and cradle (hands free use)	

**For more information on our air measurement range contact us on**

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