

Product Data Sheet

Manufacturer : Airflow Developments

Model : TA5 Thermal Anemometer

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'A MEASURABLY BETTER METER'

Airflow's TA5 Thermal Anemometer is the 'State Of The Art' in portable air velocity and temperature measurement.

Measurements are automatically temperature compensated up to 80°C. This allows optimum accuracy to be displayed at all times across a wide velocity range, and when two ranges do overlap, accurate readings will continue to be displayed with a built-in neon indicator lighting to alert the operator that a more suitable range can be selected. The neon also acts as a warning in the unlikely event of a problem occurring in the rugged but slim telescopic probe, thus avoiding the possibility of any misleading readings.

The slim, telescopic probe is available with either a rigid (standard) or articulating (optional) all angle tip for outstanding on-site versatility in limited access positions. The superb yaw and pitch characteristics of the Airflow™ thermistor bead probe design also allow accurate, repeatable readings to be maintained, even up to 15° from the airstream centreline.

Both imperial (Ft/min, °F) or metric (M/sec, °C) units can be selected at the press of a button and automatic electronic zeroing ensures very accurate readings are maintained with

minimal zero drift. Another outstanding feature unique to TA5 is the bar graph velocity indicator which provides an instantaneous 20 step display of unstable flow conditions, an important consideration when traversing in ducts. An analogue output is also provided so that measured values may be downloaded onto compatible printers or Data Loggers.

In recall mode the exceptional capability of TA5 is revealed. Up to 99 individual velocity and temperature readings may be simultaneously memorised, stored and displayed together with their average, minimum and maximum values. All stored readings may be recalled and reviewed on the display for time saving on the spot analysis of velocity and temperature distribution.

All Airflow™ instruments, including the TA5, 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.

Whilst every effort has been made to ensure the accuracy of the information given in this data sheet, no liability is given or implied for any error or omission contained herein. Due to our policy of progressive improvement, **BSRIA Instrument Solutions** reserve the right to change products and/or services without notice. Accuracies shown above are for those stated by the manufacturer, **BSRIA Instrument Solutions** accuracies for Hire instrumentation may differ from those claimed by the manufacturer.

Many names used in this data sheet are the trade mark names of their manufactures; **BSRIA Instrument Solutions** acknowledges all registered trade marks.

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FEATURES

- Reads m/sec, ft/min, °C and °F
- Data storage with min, max. and average
- Choice of 'Super Slim' and 'all angle' telescopic probes
- Three velocity ranges in one meter
- Digital turbulence indicator
- Analogue output for printer and data logging
- Backlit display

BENEFITS

- Added value - two meters in one
- High specification at a low cost
- Lightweight, tough and hand held
- Measure anywhere, backlit display
- Quick and user friendly

APPLICATIONS

- Clean room safety monitoring
- Grilles, louvers and flow hood balancing
- HVAC commissioning and trouble shooting
- Air conditioning and ventilation duct checks
- Environmental and comfort tests

Parameter	Metric Mode	Imperial Mode
Velocity Range (switchable)	0-2 m/sec 0-15 m/sec 0-30 m/sec	0-400 ft/min 0-3000 ft/min 0-6000 ft/min
Velocity Resolution	0.01 m/sec	1 ft/min above 30 ft/min 2 ft/min below 30 ft/min
Temperature Range	0-80°C	32-176°F
Velocity Accuracy at 20°C and 1013 mbar (68°F and 30 in Hg)	± 2% of FSD ± 1 Digit	
Temperature Accuracy	± 1°C ± 1 Digit	± 2°F ± 1 Digit
Memory Size	99 coincident velocity and temperature readings	
Analogue Output	0 - 1 volt. Can be scaled between 0.5v and 2v to special order	

Probe Dimensions

Length	175 mm	6.8 in
Diameter	8 mm	5/16 in
Cable Length	1000 mm	39.5 in
Weight (less batteries)	400 gm	14 oz
Power Supply	4 type AA 1.5V cells alkaline, 'standard' or rechargeable	
Battery Life	Approximately 15 hours alkaline batteries	
Optional	Articulated probe	

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