

TA45 Thermal Anemometer

The TA45 multi tasking Thermal Anemometer is so versatile it saves you money by measuring air velocity, air stream temperature and even volume flow, all in one hand held meter.

Indeed it could hardly be easier with a "super slim" telescopic probe perfect for use at grilles and diffusers or entry through restricted access points in ducts and laboratory flow cabinets.

Incorporating many time saving features normally only found in higher priced instruments, TA45 enables commissioning timescales and plant downtimes to be minimised. By reading air velocity, air volume flow and air stream temperature directly, virtually instant assessments of air flow conditions are possible.

TA4 MEASURES

- Air velocity – m/sec. ft/min
- Air volume flow – m³/sec. cfm
- Air stream temperature – °C, °F

FEATURES

- Fast, multi-function capability in metric or imperial display
- Automatic temperature compensation ensures accuracy
- Auto shut off to conserve power
- Reads volume flow – Just enter the grille/duct area
- Min/Max/average and hold readings
- Slim telescopic probe extends up to 930mm
- Excellent "yaw and pitch" probe

BENEFITS

- Top value – three meters for the price of one
- Client confidence with fully traceable calibration
- Accuracy and comparative values every time
- Lightweight, durable hand held convenience

APPLICATIONS

- HVAC commissioning and trouble shooting
- Clean room safety monitoring
- Grilles, louvres and flow hood balancing
- Environmental and IAQ comfort tests
- Air conditioning and ventilation duct checks
- Certified for COSHH assurance

Readings may be stored, and the minimum or maximum value displayed in a choice of two modes. In continuous mode, spot readings can be 'held' in the display for comparative checks. Alternatively in 'averaging' mode readings may be stored and the average value updated approximately twice every second until the user decides to halt the averaging period, at the end of which an overall average will be displayed. Helpfully by entering the duct or grille area dimensions under test a direct reading of air volume flow will be displayed in the users choice of metric or imperial units.

The superb yaw and pitch characteristics of the thermistor probe sensor also allows accurate, readings to be maintained, even up to 15° from the air stream centreline. Calibrated to national fundamental standards the TA45 is supplied with a FREE fully traceable certificate of calibration.



SPECIFICATION

TA45	METRIC MODE	IMPERIAL MODE
Velocity range	0.25 – 30 m/sec	50- 6000 ft/min
Volume Flow range	0 – 2700 m ³ /sec	0 – 999,999 ft ³ /min
Accuracy at 20°C and 1013mb (of reading)	±3% ±1Digit	±3% ±1Digit
Temperature	0 – 80°C	32 – 176°F
Temperature Accuracy	Calibrated to better than ± 1°C ± 1Digit	Calibrated to better than ± 2°F ± 1Digit
Area input range	0.008 – 90m ²	0.08 – 900ft ²
Operating Temperature (Indicator Unit)	- 10 to + 50°C	14 to 122°F
Resolution - Velocity	0.01m/sec	1ft/min
Volume	0.00001m ³ /sec	1CFM
Temperature	0.1°C	1°F
Probe Dimensions		
Compressed	194mm	7.6ins
Extended	930 mm	36.6 ins
Diameter (TIP)	8mm	5/16 ins
Cable Length	1 m	39.5 ins
Dimensions of Instrument	185 x 92 x 30mm	7.25 x 3.62 x 1.25 inches
Weight of Instrument (less battery cells)	360 gms	12.7 oz
Power Supply	4 type AA 1.5v cells, (rechargeable alkaline or zinc carbon)	
Battery Life	Approximately 15 hours using alkaline cells	
Standard Kit	Meter with telescopic probe, Battery, Calibration certificate, Case	
Optional	'Hands free' neck strap and harness. Meter with articulating telescopic probe	

AIRFLOW™

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Airflow Developments Limited, Lancaster Road, Cressex Business Park, High Wycombe, Buckinghamshire HP12 3QP England
Telephone: (Int +44) (UK 0) 1494 525252 - Facsimile: (Int +44) (UK 0) 1494 461073 - E-Mail: info@airflow.co.uk - Web Site: http://www.airflow.co.uk

Airflow Lufttechnik GmbH,
Postfach 1208, D-53349 Rheinbach, Germany.
Telefon: 02226/9205-0, Telefax: 02226/9205-11

Airflow Technical Products Inc.,
P.O. Box 372, 219 Route 206, Andover NJ 07821, USA.
Telephone: 973-786-6386. Fax: 973-786-7586

Airflow Lufttechnik GmbH,
o.s. Praha, Hostynská 520, 108 00 Praha 10 - Maleovice,
Czech republic. Telefon a fax 02-77 22 30

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CERTIFICATE 152
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