


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p style="text-align: center;">0690</p> <p style="text-align: center;">Accredited to ISO/IEC 17025:2005</p>	Airflow Measurements Ltd	
	Issue No: 015 Issue date: 11 February 2010	
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Calibration performed at the above address only		

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ($k=2$)	Remarks
<u>Air Velocity</u>			
Calibration of Anemometers and Pitot Tubes by comparison	0.1 m/s to 1 m/s 1 m/s to 2 m/s 2 m/s to 10 m/s 10 m/s to 20 m/s 20 m/s to 30 m/s	0.25% + 0.075 m/s 0.25% + 0.1 m/s 0.25% + 0.15 m/s 0.25% + 0.25 m/s 0.25% + 0.3 m/s	Usable wind tunnel diameter 100 mm
PRESSURE			
<u>Gas pressure (absolute)</u> Calibration of pressure indicating instruments and gauges	3.5 kPa to 131 kPa	20 Pa	NOTE: Absolute pressure calibration can be carried out using associated barometric pressure measurement. The uncertainty values given below will be increased by 25 Pa.
<u>Gas pressure (gauge)</u> Calibration of pressure indicating instruments and gauges	-100 kPa to - 3.5 kPa 0 to 2.5 kPa 2.5 kPa to 3.5 kPa 3.5 kPa to 200 kPa 200 kPa to 500 kPa 500 kPa to 4 MPa	0.05% + 200 Pa 0.03% + 0.5 Pa 0.035% + 1 Pa 0.05% + 100 Pa 0.05% + 200 Pa 0.05% + 500 Pa	Calibration of devices with an electrical out put may be undertaken
<u>Hydraulic pressure (gauge)</u> Calibration of pressure indicating instruments and gauges	0.2 MPa to 30 MPa	0.04% + 1.7 kPa	
DC VOLTAGE			
Up to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1 kV		60 ppm + 6.5 μ V 36 ppm + 32 μ V 36 ppm + 300 μ V 55 ppm + 5 mV 55 ppm + 30 mV	



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Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty (k=2)	Remarks
<p>FREQUENCY</p> <p>Up to 100 kHz 100 kHz 1 MHz 5 MHz 10 MHz</p> <p>TIME INTERVAL</p> <p>1 µs 5 µs 20 µs 500 µs 1 ms 5 ms 10 ms 50 ms 100 ms</p> <p>Elapsed time, single event</p> <p>Up to 24 Hours</p> <p>TEMPERATURE</p>	<p>15°C to 25 °C</p>	<p>100 µHz 1 part in 10⁷</p> <p>0.02 µs 0.1 µs 0.1 µs 11 µs 0.02 ms 0.1 ms 0.2 ms 1.1 ms 2.1 ms</p> <p>10mS</p> <p>0.5 °C</p>	<p>Repetitive signals suitable for calibrating Oscilloscope time bases</p> <p>Electronically triggered devices. Devices with a manual start/stop can be calibrated at increased uncertainties</p> <p>Can only be quoted as an ancillary measurement, suitable for reference junction measurements when performing electrical simulation of temperature measuring devices</p>



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ELECTRICAL SIMULATION Thermocouples by type:			
T	-240 °C to -100 °C -100 °C to 0 °C 0 °C to 400 °C	0.7 °C 0.6 °C 0.6 °C	
K	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 1370 °C	0.8 °C 0.7 °C 0.6 °C	
S	0 °C to 1700 °C	0.8 °C	
R	-50 °C to 0 °C 0 °C to 1700 °C	1.2 °C 0.7 °C	Without Cold Junction Compensation
N	-250 °C to 0 °C 0 °C to 1300 °C	0.62 °C 0.6 °C	
J	-180 °C to 0 °C 0 °C to 700 °C	0.6 °C 0.6 °C	
E	0 °C to 800 °C	0.6 °C	
B	0 °C to 1800 °C	0.8 °C	
T	-240 °C to -100 °C -100 °C to 0 °C 0 °C to 400 °C	0.9 °C 0.8 °C 0.8 °C	
K	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 1370 °C	0.8 °C 0.8 °C 0.9 °C	
S	0 °C to 1700 °C	0.9 °C	
R	-50 °C to 0 °C 0 °C to 1700 °C	1.3 °C 0.9 °C	Including Cold Junction Compensation
N	-250 °C to 0 °C 0 °C to 1300 °C	0.8 °C 0.8 °C	
J	-180 °C to 0 °C 0 °C to 700 °C	0.8 °C 0.8 °C	
E	0 °C to 800 °C	0.8 °C	
B	0 °C to 1800 °C	0.9 °C	
Resistance thermometer (Pt 100)	-200 °C to 800 °C	0.05 °C	
END			