


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0765 Accredited to ISO/IEC 17025:2005	Abtest Limited	
	Issue No: 012 Issue date: 25 June 2009	
	Abercynon Mountain Ash Mid Glamorgan Wales CF45 4SF	Contact: Mr A Breese Tel: +44 (0)1443 743440 Fax: +44 (0)1443 741033 E-Mail: enquiries@abtest.com Website:
Calibration performed by the Organisations at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Abercynon Mountain Ash Mid Glamorgan Wales CF45 4SF	Local contact Mr A Breese Tel: +44 (0)1443 743440 Fax: +44 (0)1443 741033 Email: enquiries@abtest.com	Dimensional, Pressure, Electrical, Temperature, and Mass Calibrations Lab

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Any suitable customer premises	Pressure, Electrical, Temperature, and Mass Calibrations	Site



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ($k=2$)	Remarks	Location Code
<p>PRESSURE (see Notes 1 and 2)</p> <p><u>Gas pressure (gauge).</u></p> <p>Calibration of pressure indicating instruments and gauges</p>	<p>-100 kPa to 200 kPa 200 kPa to 2 MPa 2 MPa to 20 MPa</p>	<p>0.03% + 100 Pa 0.03% + 1 kPa 0.03% + 10 kPa</p>	<p>Note 1 Calibrations may be undertaken expressed in other units of pressure as required</p> <p>Note 2 Calibration of pressure measuring devices with an electrical output may be undertaken.</p>	<p>Lab & Site</p>
<p>TEMPERATURE</p> <p>Platinum resistance thermometers (Pt100) and electronic thermometers with sensors</p> <p>Thermocouples - base metal</p> <p>Temperature controlled fridges, freezers, ovens and environmental chambers (inclusive of associated indicators, controllers and recorders, all with sensors within the specified parameters and ranges)</p>	<p>-70°C to 0°C 0°C 0°C to 50°C 50°C to 100°C 100°C to 200°C 200°C to 300°C 300°C to 320°C</p> <p>-70°C to 0°C 0°C 0°C to 50°C 50°C to 100°C 100°C to 200°C 200°C to 300°C 300°C to 320°C</p> <p>-50°C to 100°C 100°C to 200°C</p>	<p>0.33°C 0.12°C 0.33°C 0.19°C 0.34°C 1.0°C 1.3°C</p> <p>0.45°C 0.32°C 0.45°C 0.35°C 0.45°C 1.1°C 1.4°C</p> <p>0.5°C 0.6°C</p>		<p>Lab & Site</p>
<p>NON AUTOMATIC WEIGHING MACHINES</p>	<p>Up to 100 kg</p>	<p>See notes 3 and 4</p>	<p>Note 3 Uncertainties will depend on the performance of the weighing machine under calibration and will not be less than the uncertainty of calibration of the weights used for the calibration.</p> <p>Note 4 Weights are available in OIML Class M1 from 1 mg to 100 kg.</p>	<p>Lab & Site</p>



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LENGTH (see notes 5 and 6) Plain plug gauges (parallel), and rollers	0.25 mm to 50 mm diameter 50 mm to 150 mm diameter	0.8 μ m 1.1 μ m	Note 5 All calibrations must be carried out in accordance with procedures agreed by UKAS. Note 6 All calibrations may be carried out in metric and imperial units.	Lab & Site
MEASURING INSTRUMENTS AND MACHINES (see notes 5 and 6)				Lab
Micrometers External	As BS 870 1950 up to 150 mm	Heads: 2.0 μ m between any two points Setting and extension rods: 1 μ m + (8 μ m x length in m)		Lab
Vernier gauges Caliper	As BS 887 1982 up to 1000 mm	Overall performance: 10 μ m + (30 μ m x length in m)		
Height	As BS 1643 1983 up to 1000 mm			
Dial gauges and dial test indicators	As BS 907:1965 and BS 2795:1981	1.0 μ m		Lab
ELECTRICAL				Lab & Site
DC VOLTAGE				
Generation	up to 330 mV 330 mV to 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 1000 V	26 ppm + 3 μ V 15 ppm + 4 μ V 17 ppm + 25 μ V 30 ppm + 0.2 mV 26 ppm + 2.0 mV		
DC CURRENT				
Generation	up to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 1.1 A 1.1 A to 2.2 A 2.2 A to 11 A 11 A to 20.5 A	0.011% + 0.05 μ A 0.011% + 0.3 μ A 0.011% + 3 μ A 0.02% + 40 μ A 0.04% + 40 μ A 0.06% + 0.5 mA 0.11% + 0.75 mA		



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ELECTRICAL (cont'd)				Lab & Site
RESISTANCE				
Generation	Up to 11 Ω 11 Ω to 33 Ω 33 Ω to 110 Ω 110 Ω to 330 Ω 330 Ω to 1.1 k Ω 1.1 k Ω to 3.3 k Ω 3.3 k Ω to 11 k Ω 11 k Ω to 33 k Ω 33 k Ω to 110 k Ω 110 k Ω to 330 k Ω 330 k Ω to 1.1 M Ω 1.1 M Ω to 3.3 M Ω 3.3 M Ω to 11 M Ω	150 ppm + 3 m Ω 150 ppm + 2 m Ω 37 ppm + 2 m Ω 35 ppm + 3 m Ω 33 ppm + 5 m Ω 34 ppm + 21 m Ω 40 ppm + 50 m Ω 37 ppm + 0.21 Ω 32 ppm + 0.5 Ω 42 ppm + 2.2 Ω 40 ppm + 5 Ω 120 ppm + 31 Ω 150 ppm + 70 Ω		
AC VOLTAGE				
Generation	45 Hz to 10 kHz 330 mV to 3.3 V 3.3 V to 33 V	0.03% + 0.06 mV 0.045% + 0.6 mV		
	45 Hz to 1 kHz 1 mV to 330 mV 33 V to 330 V 330 V to 1000 V	0.05% + 6 μ V 0.045% + 2 mV 0.05% + 10 mV		
AC CURRENT				
Generation	45 Hz to 1 kHz 0.33 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 3 A 3 A to 11 A 11 A to 20.5 A	0.13% + 0.1 μ A 0.062% + 2 μ A 0.062% + 20 μ A 0.12% + 100 μ A 0.11% + 2 mA 0.16% + 5 mA		
Temperature indicators, recorders, controllers and transmitters, calibration by electrical simulation				
Base metal thermocouple	-100°C to 1000°C	0.3°C	Including cold junction compensation	
Pt100	-100°C to 600°C	0.03°C		
FREQUENCY	2.5 Hz to 10 MHz	3 ppm		
TIME INTERVAL	2 ns to 1 μ s 2 μ s to 500 ms	30 ppm 30 ppm		
END				