

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0566 Accredited to ISO/IEC 17025:2005	Tyneside Standards Limited	
	Issue No: 023	Issue date: 04 October 2011
	Rolling Mill Road Viking Industrial Park Jarrow Tyne & Wear NE32 3DT	Contact: Mr H L Thompson/Mr J Wood Tel: +44 (0)191 428 3471 Fax: +44 (0)191 428 3485 E-Mail: sales@tyneside-standards.co.uk Website: www.tyneside-standards.co.uk
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 Rolling Mill Road Viking Industrial Park Jarrow Tyne & Wear NE32 3DT	Local contact Mr T L Thompson/Mr J Wood Tel: +44 (0)191 428 3471 Fax: +44 (0)191 428 3485 E-Mail: sales@tyneside-standards.co.uk	Dimensional Electrical Pressure Torque Mass (Weighing machines) A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
At customers premises	Mr H L Thompson/Mr J Wood	Dimensional Electrical Pressure Mass (Weighing machines) B



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k = 2$)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
PLAIN PLUG & RING GAUGES			NOTES	
Plain plug gauges (parallel), cylindrical setting standards and rollers	1 to 50 diameter 50 to 100 diameter 100 to 150 diameter 150 to 200 diameter 200 to 300 diameter	0.80 1.0 1.5 2.0 3.0	1. All linear calibrations may be made in inch units.	A
Thread measuring cylinders	As BS 3777, BS 5590 and specials. 0.1 to 5	0.5 on diameter	2. The uncertainty quoted is for the departure from : flatness, straightness, or squareness; i.e. the distance separating the two parallel planes which just enclose the surface under consideration.	A
Steel balls	1 to 50 diameter 50 to 100 diameter	0.80 on diameter 1.0 on diameter		A
Plain ring gauges (parallel) and setting standards	1 to 12 diameter 12 to 25 diameter 25 to 50 diameter 50 to 100 diameter 100 to 150 diameter 150 to 200 diameter 200 to 300 diameter	2.0 0.8 1.0 1.5 on diameter 2.0 3.0 4.0	3. Single start symmetrical threads only 4. Functional test of size using setting plugs calibrated with a CMC of 3.0 μm	A
Plain gap gauges, parallel	3 to 50 50 to 100 100 to 150	3.0 5.0 8.0		A
SCREW THREAD GAUGES See note 3				
Screw plug gauges (parallel)	1 to 100 diameter 100 to 150 diameter 150 to 300 diameter	3.0 5.0 8.0		A
Screw plug gauges (taper) including check plugs	1.5 to 100 diameter 100 to 250	5.0 10		A
Screw ring gauges (parallel)	12 to 100 diameter 100 to 150 diameter 150 to 300 diameter	5.0 6.0 on pitch 10 diameter		A
Screw ring gauges(taper)	1.5 to 100 100 to 250	7.0 10		A
Screw pitch Screw flank angle	0.2 to 8 0° to 52°	1.5 5.0 minutes of arc		
Screw calliper gauges, parallel	From 3 up to 150	See note 4		A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
Feeler gauges	BS 957:2008	1.0		A
Micrometers				A
External	BS 870:2008 0 to 600	Heads: 2.0		
Internal	BS 959:2008 0 to 900	Setting and extension rods		
Depth	BS 6468:2008 0 to 300	1.0 + (8.0 x length in m)		
Length Gauges, Flat & Spherical-ended (excluding length bars)	0 to 1220 mm	1.0 + (8.0 x length in m) Minimum 1.5		A
Micrometers, 3 point bore	0 to 100	5.0		A
OTHER MEASURING INSTRUMENTS, EQUIPMENT AND MACHINES				
Vernier caliper, height and depth gauges	BS 887:2008 0 to 1000 BS 1643:2008 0 to 1000 BS 6365:2008 0 to 600	Overall performance 10 + (30 x length in m)		A
Dial gauges and dial test indicators	As BS 907:2008 and BS 2795:1981 0 to 50	2.0		A
Steel rules	0 to 300 mm	15 + (10 x length in m)		A
ANGLE				
Bevel protractors	As BS 1685:2008 0° to 360°	6 0 minutes of arc		A
Squares				
Blade type (see npote 2)	As BS 939:2007 50 to 300 300 to 600	3.0 5.0		A
Sine Bars and Tables	BS 3064:1978 0 to 500 length	Linear dimensions 1.0 + (10 x length in m) Overall performance 3.0 seconds of arc		A
Profile projectors	10 to 100 magnifications	(125/M) Where M is the magnification		A, B



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FORM Surface plates Granite and Cast iron	BS 817:2008	1.5.0 + (0.8 x diagonal in m) See Note 2		A, B
ELECTRICAL MEASUREMENTS				
RESISTANCE	0 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1 M Ω	14 ppm + 12 m Ω 90 ppm 85 ppm 75 ppm 150 ppm		A, B
DC VOLTAGE	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 1000 V	20 ppm + 3.5 μ V 47 ppm + 7.0 μ V 42 ppm + 5.0 μ V 54 ppm + 10 μ V		A, B
DC CURRENT	0 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 3 A	64 ppm + 60 nA 49 ppm + 600 nA 59 ppm + 13 μ A 67 ppm + 35 μ A		A, B
AC VOLTAGE	20 mV to 1 V 10 Hz to 10 kHz 1 V to 10 V 10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 10 kHz 10 V to 1000 V 10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 10 kHz	0.020 % 0.020 % + 7.5 mV 0.020 % + 2.0 mV 0.020 % + 1.0 mV 0.07% + 53 mV 0.08% + 150 mV 0.08% + 50 mV		A, B
AC CURRENT	40 mA to 1 A 40 Hz to 1 kHz 1 A to 3 A 40 Hz to 1 kHz	0.050 % + 35 μ A 0.10 %		A, B



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GENERATION				
RESISTANCE Spot Values	167 m Ω 270 m Ω 1.24 Ω 10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω 1 M Ω 10 M Ω 100 M Ω	6.0 m Ω 6.0 m Ω 6.0 m Ω 11 m Ω 10 m Ω 55 m Ω 450 m Ω 12 Ω 370 Ω 4.7 k Ω 79 k Ω		A, B
DC VOLTAGE	0 mV to 200 mV 0.2 V to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1 000 V	12 μ V 36 ppm 33 ppm 33 ppm 37 ppm		A, B
DC CURRENT	0 μ A to 200 μ A 0.2 mA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 0.2 mA to 1 A 1 A to 30 A	94 ppm + 1.0 μ A 91 ppm 90 ppm 100 ppm 0.018 % 0.035 %		A, B
AC VOLTAGE	20 mV to 200 mV 40 Hz to 20 kHz 20 kHz to 100 kHz 200 mV to 2 V 40 Hz to 20 kHz 20 kHz to 100 kHz 2 V to 20 V 40 Hz to 20 kHz 20 kHz to 100 kHz 20 V to 200 V 40 Hz to 20 kHz 200 V to 1000 V 40 Hz to 10 kHz	210 μ V 240 μ V 0.060 % 0.050 % + 2.3 mV 0.060 % 0.063 % + 2 mV 0.060 % 0.060 %		A, B
AC CURRENT	20 μ A to 200 μ A 40 Hz to 10 kHz 200 μ A to 2 mA 40 Hz to 10 kHz 2 mA to 20 mA 40 Hz to 10 kHz 20 mA to 200 mA 40 Hz to 5 kHz 200 mA to 30 A 40 Hz to 1 kHz	0.13 % + 300 nA 0.13 % + 300 nA 0.13 % + 4.5 μ A 0.15 % 0.30 %		A, B



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CAPACITANCE	1 nF 10 nF 20 nF 50 nF 100 nF 1 μ F 10 μ F 1 mF 10 mF	23 pF 37 pF 63 pF 150 pF 300 pF 3.2 nF 29 nF 290 nF 8.1 μ F		A, B
INDUUCTANCE	1 mH 10 mH 20 mH 30 mH 50 mH 100 mH 1 H 10 H	22 μ H 100 μ H 210 μ H 330 μ H 550 μ H 1.2 mH 14 mH 130 mH		
Measurements to support 17 th edition type test equipment				
AC Resistance (50 Hz nominal)	50 m Ω to 10 Ω 10 Ω to 1 k Ω	1.2 % + 11 m Ω 0.63 % + 17 m Ω		A, B
Load for PAT	0.13 kW	1.0 % + 1.5 Ω	At nominal UK mains supply voltage	A, B
FREQUENCY	10 Hz to 100 MHz	1.0 part in 10^7		A, B
TIME				
Elapsed time	0 s to 10^4 Seconds	50 mS	Electronically triggered event	A, B



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ELECTRICAL SIMULATION OF TEMPERATURE READING DEVICES				
Thermocouple displays Type K	-200 °C to - 50 °C -50 °C to 0 °C 0 °C to 1200 °C	1.2 °C 0.40 °C 0.30 °C		A, B
Type J	-200 °C to - 50 °C -50 °C to 0 °C 0 °C to 700 °C	1.30 °C 0.40 °C 0.30 °C		A, B
Type T	-200 °C to - 50 °C -50 °C to 0 °C 0 °C to 400 °C	1.30 °C 0.40 °C 0.30 °C		A, B
Type R	0 °C to 400 °C 400 °C to 1760 °C	0.80 °C 0.70 °C	Ambient 20 ± 5.0 °C Plus1 display digit	A, B
Type S	0° C to 400 °C 400 °C to 1760 °C	0.40 °C 0.30 °C	Including Cold Junction compensation.	A, B
Type N	-200 °C to - 50 °C -50 °C to 0 °C 0 °C to 1200 °C	1.1 °C 0.40 °C 0.30 °C		A, B
Type B	0 °C to 1000 °C 1000 °C to 1820 °C	0.40 °C 0.30 °C		A, B
Type E	-50 °C to 0 °C 0 °C to 1000 °C	0.40 °C 0.30 °C		A, B
PRT Displays				
RTD PT 100	-50 °C to 0 °C 0 °C to 1000°C	0.40 °C 0.30 °C		A, B
Suitable for reference junction Measurements when using electrical simulation	0 °C in liquid 18 °C to 25 °C in air	0.20 °C 0.50 °C	Temperature measurements for supporting thermocouple reference junction claims.	A,B
PRESSURE				
Gas pressure (Gauge)				
Calibration of indicating instruments and gauges	-90 kPa to 0 0 to 2 MPa	1.0 kPa 1.3 kPa	Calibration of pressure instruments with an electrical output may be undertaken.	A, B
Hydraulic pressure (Gauge)				
Calibration of indicating instruments and gauges	689 kPa to 5.5 MPa 6.89 MPa to 110 MPa	0.035 % 0.035 %		A, B



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TORQUE Hand Torque Tools	20 Nm to 1356 Nm BS EN ISO 6789:2003	1.0 % of full scale	The uncertainty quoted is for the application of the calibration torque and does not take into account the characteristics of the device being calibrated. Calibration results may also be given in units of lbf.in and lbf.ft.	A
MASS NON AUTOMATIC WEIGHING MACHINES	200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 50 kg 100 kg 200 kg	0.010 mg 0.010 mg 0.010 mg 0.020 mg 0.025 mg 0.035 mg 0.045 mg 0.070 mg 0.135 mg 0.370 mg 0.700 mg 2.120 mg 3.850 mg 10.500 mg 450.0 mg 740.0 mg 2.120 g 4.200 g 8.500 g	Weights available in OIML class E2 from 1mg to 500g Max Grouped load 1.1kg F1 from 1g to 5kg, Max Grouped load 9kg M1 from 1g to 20Kg Max grouped load 250Kg Other loads within the overall listed range may also be used.	A
END				