

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>0394</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Trescal Limited</p> <p>Issue No: 073 Issue date: 05 February 2026</p>	
	<p>Saxony Way Blackbushe Business Park Yateley Hampshire GU46 6GT</p>	<p>Contact: Matt Gypps Tel: +44 (0) 1438 212500 E-Mail: ukcal@trescal.com Website: www.trescal.com</p>
<p>Calibration performed by the Organisations at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address (Pride Park) Trescal Ltd Unit 2, Riverside Road Pride Park Derby DE24 8HY</p> <p>Local contact Paul Mellon Tel: +44 (0) 1332 238102 Email: calibration.derby@trescal.com</p>	<p>Dimensional Electrical Humidity Temperature Torque</p>	Pride Park
<p>Address (Ansty) Trescal EMS – Rolls-Royce Standards Room Building 6 Ansty Coventry CV7 9JR</p> <p>Local contact David Williams Tel: +44 (0) 2476 623625 Email: david.williams2@rolls-royce.com</p>	<p>Torque Pressure</p>	Ansty
<p>Address (Inchinnan) Trescal EMS – Rolls-Royce Inchinnan Drive Inchinnan Renfrewshire PA4 9AF</p> <p>Local contact Robert Simpson Tel: +44 (0) 141 626 8540 Email: robert.simpson@trescal.com</p>	<p>Dimensional Torque</p>	Inchinnan
<p>Address (Washington) Trescal EMS – Rolls-Royce Calibration Laboratory Radial Park Road Washington Tyne and Wear NE38 9DA</p> <p>Local contact Robert Simpson Tel: +44 (0) 191 297 3023 Email: robert.simpson@trescal.com</p>	<p>Dimensional Torque</p>	Washington



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Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address (Bristol) Trescal EMS – Rolls-Royce Metrology Laboratory (EW6/7) PO Box 3 Filton Bristol BS34 7QE	Local contact Neil Hoskins Tel: +44 (0) 119 979 6099 Email: neil.hoskins@trescal.com	Fuel Flow Torque	Bristol
Address (Solihull) Trescal EMS - Rolls-Royce Derwent Building 5000 Solihull Parkway Birmingham Business Park Birmingham B37 7YP	Local contact Richard Parker Tel +44 (0) 1332 238 100 Email: richard.parker@trescal.com	Electrical DC&LF Dimensional	Solihull

Site activities performed away from the locations listed above:

Location details		Activity	Location code
All Rolls-Royce sites: The site or premises must be suitable for the nature of the particular calibrations undertaken and will be the subject of contract review arrangements between the laboratory and the customer.	Local contact Paul Mellon Tel: +44 (0) 1332 238102 Email: calibration.derby@trescal.com	Form Electrical Temperature	Site



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Ancillary dimensional measurements made for completeness of calibration where not included within main schedule entry
Actual value reported will be dependent on methodology and range.

Type of measurement	Feature examined	CMC (mm)
Using Gauge Blocks	Flatness	0.0030
Using optical flat/parallel	Flatness	0.00050
Using optical flat/parallel	Parallelism	0.00080
Using digital indicator and surface table	Flatness	0.0030
Using digital indicator and surface table	Parallelism	0.0030
Using digital indicator and surface table	Straightness	0.0030
Using digital indicator and surface table	Alignment of Anvils (Micrometer)	0.010
Using digital indicator and surface table	Alignment of Jaws (Calliper)	0.025
Using digital indicator and surface table	Parallelism of HG Jaw	0.0040
Using digital indicator and surface table	Parallelism of HG Scriber	0.0040
Using digital indicator, box angle plate and surface table	Squareness	0.0080
Using External Micrometer	Combined Width (Size & Parallelism)	0.0060
Using External Micrometer	Size of Jaw Height Gauge	0.0070
Using External Micrometer	Size of Scriber Height Gauge	0.0070



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code	
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED					
LENGTH				Pride Park	
Thread measuring cylinders	BS3777:1964 and BS 5590:1978 and specials 0.1 to 5.0 diameter	0.50 on diameter	NOTES 1 In addition to all items in the first column, other similar items, including parts of measuring instruments and machines, may be calibrated in accordance with the stated CMCs. Where the item or part calibrated is of lower quality due to wear, errors in geometry or form, or poor surface texture, or where any other factor adversely affects the measurement capability, greater uncertainties will be quoted. 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. 3 All linear calibrations may be given in inch units. 4 Single start symmetrical thread forms only. 5 Single start symmetrical thread forms only. 6 By comparison with end standards using a length measuring machine. 7 Using a horizontal measuring machine and/or end standards Using a length measuring machine. Using a projector.		
Plain plug gauges (parallel), cylindrical setting standards, gear measuring cylinders and rollers. See Note 6	1 to 50 diameter 50 to 100 100 to 150 150 to 200 200 to 300	0.50 0.80 1.0 1.2 1.6			on diameter
Plain ring gauges (parallel) and setting standards	CCP 2.3.2, issue 12 1 to 50 diameter 50 to 100 diameter 100 to 150 diameter 150 to 200 diameter	0.90 1.2 1.8 2.5			on diameter
Length gauges, flat and spherical ended See Note 6	0 m to 3 m	1.0 + (5.0 x length in m)			
Plain gap gauges (parallel) See note 7	BS 969:2008 2 to 5 5 to 100 100 to 200 200 to 300	3.0 5.0 8.0 12			
Screw plug gauges (parallel) including check and setting plugs See Notes 5 and 6	1 to 100 diameter 100 to 300 diameter	5.0 pitch diameter 3.0 major/minor dia 5.0 pitch diameter 4.0 major/minor dia			
Screw ring gauges (parallel) See Notes 4 and 6	5 to 75 diameter 100 to 150 diameter 150 to 300 diameter	4.0 pitch diameter 5.0 pitch diameter 8.0 pitch diameter			
Screw pitch	0.2 to 8	1.5			
Screw flank angle	0° to 50°	5.0 minutes of arc			
Parallels	BS 906:Parts 1 and 2:1992 5 to (50 x 100 x 400)	1.5 to 5.0			



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
LENGTH (continued)				Pride Park
Gauge blocks		Class (see note)	Note	
Inch (Steel)	BS 4311-1:2007 0 in to 0.4 in 0.4 in to 1 in Size 2 in 3 in 4 in	C D 3.0 μ in 4.0 μ in 4.0 μ in 5.0 μ in 5.0 μ in 6.0 μ in 7.0 μ in	Class C uncertainties apply to the measurement of length by comparison with grade K standards of a similar material. Class D uncertainties apply to the measurement of length by comparison with grade K standards of a dissimilar material.	
Millimetre (Steel)	BS EN ISO 3650:1999 0 to 10 10 to 25 Size 30, 40, 50 60, 70, 75 80, 90, 100	C D 0.080 0.10 0.10 0.13 0.12 0.15 0.18	The uncertainties apply to new and used grade 0, 1 and 2 gauges to BS EN ISO 3650:1999 and BS 4311-1:2007.	
Vee blocks	BS 3731:1987 20 to 200 diameter, Flatness Parallelism Mutual squareness Squareness of vee to end face Parallelism of vee Centrality of vee Equality of semi-angle Matching	2.0 2.0 4.0 2.0 3.0 3.0 1.0 minutes of arc 3.0		
Receiver, position and profile gauges, jigs, fixtures	1500 x 750 x 750 1500 x 3200 x 1100	From first principles: Dependant on size and features Minimum per co-ordinate: 3.0 + (10 x length in m) Using CMM: Dependant on size and features Minimum per co-ordinate: 5.0 + (10 x length in m)		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ANGLE				Pride Park
Squares				
Blade type	BS 939:2007, CCP 2.4.17 issue 10 50 to 300 300 to 600	3.0 5.0		
Cylindrical	BS 939:2007, CCP 2.4.17 issue 10 75 to 300 300 to 600	2.0 On squareness 4.0 See Note 2		
Block	BS 939:2007 50 to 300 300 to 600	7.0 7.0		
Angle gauges	NPL type Other types	2.0 seconds of arc 3.0 seconds of arc	In-house methods based on MOY/SCMI/18	
Sine bars and tables	BS 3064:1978 100 to 500 length	Linear dimensions: 1.5 + (10 x length in m) Flatness: 2.4 Parallelism: 3.0 Squareness: 4.5 Overall performance: 4.0 seconds of arc		
Sine centres	100 to 500 length or between centres	Linear dimensions: 1.5 + (10 x length in m) Flatness: 2.4 Parallelism: 3.0	In-house methods based on BS 3064:1978	
Compound sine tables	100 to 500 length	Overall performance 4.0 seconds of arc		
FORM				
Straightedges Cast iron Steel Granite	BS 5204:Part 1:1975 and BS 5204:Part 2:1977 0 m to 2m	1.0 + (2.0 x length in m) See Note 2		
Roundness External Internal	BS 3730:Part 2:1982 0 to 350 diameter 3 to 350 diameter	0.050 on radius 0.050 on radius		
Steel balls	1 to 25 diameter 25 to 50 diameter	0.70 on diameter 0.80 on diameter	By comparison with end standards using a length measuring machine.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code	
MEASURING INSTRUMENTS AND MACHINES					
Micrometers External micrometer	Based on BS 870:2008, CCP 2.4.1 issue 14 0 to 600 Heads: (Zero) Setting, 0 to 25: (Zero) Setting, 25 to 600: Flatness of anvils: Parallelism of anvils: Spindle alignment:	2.0 between any two points 1.0 1.0 + (8.0 x length in m) 0.50 0.80 10	Instrument entries in this section of the schedule also cover digital and dial type gauges which are calibrated based on the quoted standards.	Pride Park	
Internal micrometer	Based on BS 959:2008 0 to 300	Heads: 2.0 Setting and Extension rods: 1.0 + (5.0 x length in m)			
Depth micrometer	Based on BS 6468:2008 0 to 300 Heads: Zero Setting: Base Flatness: Rod Flatness: Parallelism: Rod axis of rotation: Squareness of:- Face to spindle / rod axis: Rod axis to datum face:	2.0 between any two points 1.0 + (5.0 x length in m) 3.0 0.50 3.0 8.0 8.0 8.0			
Micrometer heads	BS 1734:1951; 0 to 100	1.0			
Height setting micrometer	0 to 300 300 to 480	Heads 1.0 Stepped column 1.6 Overall performance 2.2 3.0			By comparison with end standards.
Riser Blocks	150 300	1.6 1.7			By comparison with end standards.



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MEASURING INSTRUMENTS AND MACHINES (continued)				
Height gauges - (Simple) including vernier, dial and digital types	BS EN ISO 13225:2012 0 to 300	4.0		Pride Park
Vernier gauges Caliper	Based on BS 887:2008 0 to 1200 Overall performance: Flatness: Parallelism: Squareness: Co-Planer: Width of internal jaws:	10 + (30 x length in m) 3.0 4.0 8.0 25 6.0		
Height	Based on BS 1643:2008 0 to 1200 Overall performance: Flatness: Parallelism: Depth of Jaw / Scriber:	10 + (30 x length in m) 3.0 4.0 7.0		
Depth	Based on BS 6365:2008 0 to 600 Overall performance: Flatness / Straightness: Parallelism:	10 + (30 x length in m) 3.0 4.0		
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50 Scale interval measurements: Discrimination:	1.0 1.3		
Spirit levels	BS 958:1968 and BS 3509:1962 Nominal sensitivity 5 seconds of arc to 60 minutes of arc	Mean sensitivity: 10 % of nominal; minimum 0.50 seconds of arc		
Clinometers	0° to 360°	10 seconds of arc	In-house method based on MOY/SCMI/36	
Levels, electronic	0 seconds of arc to 10 minutes of arc	1.0 % of range minimum 0.50 seconds of arc	The quoted uncertainty will be particularly dependent on the sensitivity of the device. Using small angle generator.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TORQUE Hand torque tools (excluding torque screwdrivers)	BS EN ISO 6789:2017 And BS EN ISO 6789:2003 (withdrawn and superseded) and CCP 3.6.6 Issue 15 1.0 N·m to 1000 N·m	1.0 %	The quoted uncertainty will be particularly dependent on the repeatability of the unit under test.	Pride Park



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ELECTRICAL MEASUREMENTS				
DC VOLTAGE Measurement	Up to 200 mV	6.1 $\mu\text{V/V}$ + 0.36 μV	The stated CMCs are for a four-terminal configuration and may be increased if a two-terminal configuration is necessary.	Pride Park
	200 mV to 2 V	3.6 $\mu\text{V/V}$ + 0.46 μV		
2 V to 20 V	3.5 $\mu\text{V/V}$ + 4.0 μV			
20 V to 200 V	5.6 $\mu\text{V/V}$ + 40 μV			
200 V to 1 000 V	5.6 $\mu\text{V/V}$ + 1.0 mV			
Generation	0 μV to 200 μV	5.5 $\mu\text{V/V}$ + 0.68 μV		
	200 μV to 2 mV	5.5 $\mu\text{V/V}$ + 0.68 μV		
	2 mV to 20 mV	5.5 $\mu\text{V/V}$ + 0.68 μV		
	20 mV to 200 mV	5.5 $\mu\text{V/V}$ + 0.59 μV		
	200 mV to 2 V	4.0 $\mu\text{V/V}$ + 1.0 μV		
	2 V to 20 V	2.4 $\mu\text{V/V}$ + 5.5 μV		
	20 V to 200 V	4.0 $\mu\text{V/V}$ + 80 μV		
	200 V to 1100 V	5.5 $\mu\text{V/V}$ + 800 μV		
DC RESISTANCE Measurement	0 Ω to 2 Ω	21 $\mu\Omega/\Omega$ + 4.0 $\mu\Omega$		
	2 Ω to 20 Ω	10 $\mu\Omega/\Omega$ + 14 $\mu\Omega$		
	20 Ω to 200 Ω	8.5 $\mu\Omega/\Omega$ + 50 $\mu\Omega$		
	200 Ω to 2 k Ω	8.5 $\mu\Omega/\Omega$ + 500 $\mu\Omega$		
	2 k Ω to 20 k Ω	8.5 $\mu\Omega/\Omega$ + 5.0 m Ω		
	20 k Ω to 200 k Ω	8.5 $\mu\Omega/\Omega$ + 50 Ω		
	200 k Ω to 2 M Ω	9.0 $\mu\Omega/\Omega$ + 1.0 Ω		
	2 M Ω to 20 M Ω	22 $\mu\Omega/\Omega$ + 10 Ω		
	20 M Ω to 200 M Ω	72 $\mu\Omega/\Omega$ + 1.0 k Ω		
	200 M Ω to 2 G Ω	200 $\mu\Omega/\Omega$ + 100 Ω		
2 G Ω to 20 G Ω	1.5 % + 10 M Ω			
Generation Four terminal configuration	10 Ω	21 $\mu\Omega/\Omega$		
	100 Ω	7.4 $\mu\Omega/\Omega$		
	1 k Ω	7.4 $\mu\Omega/\Omega$		
	10 k Ω	7.4 $\mu\Omega/\Omega$		
	100 k Ω	8.2 $\mu\Omega/\Omega$		
	1 M Ω	28 $\mu\Omega/\Omega$		
	10 M Ω	41 $\mu\Omega/\Omega$		
	100 M Ω	74 $\mu\Omega/\Omega$		
Two terminal configuration	0 Ω	8.0 m Ω		
	10 Ω	9.0 m Ω		
	100 Ω	16 m Ω		
	1 k Ω	160 $\mu\Omega/\Omega$		
	10 k Ω	17 $\mu\Omega/\Omega$		
	100 k Ω	8.2 $\mu\Omega/\Omega$		
	1 M Ω	21 $\mu\Omega/\Omega$		
	10 M Ω	41 $\mu\Omega/\Omega$		
	100 M Ω	60 $\mu\Omega/\Omega$		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
DC CURRENT Measurement	0 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A	13 μ A/A + 420 pA 13 μ A/A + 4.2 pA 15 μ A/A + 42 nA 48 μ A/A + 820 nA 190 μ A/A + 16 μ A 400 μ A/A + 400 μ A		Pride Park
Generation	10 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 10 A 10 A to 20 A	80 μ A/A + 1.6 nA 32 μ A/A + 9.3 nA 32 μ A/A + 93 nA 32 μ A/A + 930 nA 79 μ A/A + 18 μ A 120 μ A/A + 440 μ A 590 μ A/A + 4.5 mA		
	2 A to 20 A 20 A to 32 A 32 A to 105 A 105 A to 200 A 200 A to 525 A 525 A to 1000 A	590 μ A/A + 4.5 mA 0.26 % + 1.2 mA 0.26 % + 9.5 mA 0.26 % + 45 mA 0.26 % + 48 mA 0.26 % + 230 mA	For the calibration of current clamps and similar devices, using multi-turn coil.	
AC VOLTAGE Measurement	10 mV to 200 mV 10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	150 μ V/V + 4.0 μ V 120 μ V/V + 4.0 μ V 120 μ V/V + 4.0 μ V 140 μ V/V + 4.0 μ V 340 μ V/V + 8.0 μ V 770 μ V/V + 20 μ V		
	200 mV to 2 V 10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	120 μ V/V + 20 μ V 95 μ V/V + 20 μ V 85 μ V/V + 20 μ V 110 μ V/V + 20 μ V 220 μ V/V + 40 μ V 570 μ V/V + 200 μ V 0.30 % + 2.0 mV 1.0 % + 20 mV		



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AC VOLTAGE Measurement (continued)	2 V to 20 V 10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 20 V to 200 V 10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 200 V to 1 kV 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	120 $\mu\text{V/V} + 200 \mu\text{V}$ 93 $\mu\text{V/V} + 200 \mu\text{V}$ 85 $\mu\text{V/V} + 200 \mu\text{V}$ 110 $\mu\text{V/V} + 200 \mu\text{V}$ 220 $\mu\text{V/V} + 400 \mu\text{V}$ 570 $\mu\text{V/V} + 2.0 \text{ mV}$ 0.30 % + 20 mV 1.0 % + 200 mV 120 $\mu\text{V/V} + 2.0 \text{ mV}$ 93 $\mu\text{V/V} + 2.0 \text{ mV}$ 85 $\mu\text{V/V} + 2.0 \text{ mV}$ 120 $\mu\text{V/V} + 2.0 \text{ mV}$ 230 $\mu\text{V/V} + 4.0 \mu\text{V}$ 570 $\mu\text{V/V} + 20 \text{ mV}$ 120 $\mu\text{V/V} + 40 \text{ mV}$ 240 $\mu\text{V/V} + 80 \text{ mV}$ 580 $\mu\text{V/V} + 400 \text{ mV}$		



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AC VOLTAGE (continued) Generation	1 mV to 2 mV 10 Hz to 30 Hz 30 Hz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 2 mV to 20 mV 10 Hz to 30 Hz 30 Hz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 20 mV to 200 mV 10 Hz to 30 Hz 30 Hz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 200 mV to 2 V 10 Hz to 30 Hz 30 Hz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 2 V to 20 V 10 Hz to 30 Hz 30 Hz to 30 kHz 10 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 20 V to 200 V 10 Hz to 30 Hz 30 Hz to 30 kHz 30 kHz to 100 kHz 200 V to 1 kV 40 Hz to 300 Hz 300 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	95 μ V/V + 23 μ V 57 μ V/V + 23 μ V 240 μ V/V + 23 μ V 780 μ V/V + 23 μ V 1600 μ V/V + 45 μ V 95 μ V/V + 4.9 μ V 200 μ V/V + 4.4 μ V 300 μ V/V + 4.4 μ V 800 μ V/V + 5.0 μ V 1600 μ V/V + 13 μ V 94 μ V/V + 8.0 μ V 56 μ V/V + 8.0 μ V 240 μ V/V + 8.0 μ V 0.14 % + 13 μ V 0.49 % + 83 μ V 73 μ V/V + 38 μ V 44 μ V/V + 46 μ V 65 μ V/V + 34 μ V 0.12 % + 42 μ V 0.48 % + 310 μ V 73 μ V/V + 380 μ V 44 μ V/V + 470 μ V 55 μ V/V + 340 μ V 0.12 % + 380 μ V 0.48 % + 3.2 mV 80 μ V/V + 3.8 mV 51 μ V/V + 4.3 mV 96 μ V/V + 3.8 mV 110 μ V/V + 43 mV 80 μ V/V + 43 mV 110 μ V/V + 57 mV 780 μ V/V + 63 mV		Pride Park



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
AC CURRENT				
Measurement	<i>10 Hz to 10 kHz:</i> 10 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA	310 μ A/A + 20 nA 310 μ A/A + 200 nA 310 μ A/A + 2.0 μ A 300 μ A/A + 20 μ A		
	<i>10 Hz - 2 kHz</i> 200 mA to 2 A 2A to 20 A	630 μ A/A + 200 μ A 730 μ A/A + 200 μ A		
	<i>2 kHz to 10 kHz</i> 200 mA to 2 A 2 A to 20 A	830 μ A/A + 2.0 mA 0.25 % + 2.0 mA		
Generation	<i>10 Hz to 1 kHz:</i> 10 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 10 A	120 μ A/A + 9.3 nA 81 μ A/A + 100 nA 82 μ A/A + 930 nA 81 μ A/A + 9.3 μ A 240 μ A/A + 96 μ A 310 μ A/A + 1.3 mA		
	<i>1 kHz to 5 kHz</i> 10 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 10 A	240 μ A/A + 12 nA 160 μ A/A + 100 nA 160 μ A/A + 930 nA 160 μ A/A + 9.3 μ A 350 μ A/A + 120 μ A 660 μ A/A + 1.5 mA		
	10 A to 20 A <i>10 Hz to 3 kHz</i> <i>3 kHz to 10 kHz</i>	0.21 % + 6.9 mA 0.50 % + 23 mA		
	<i>10 Hz to 100 Hz</i> 20 A to 32 A 32 A to 200 A 200 A to 1000 A	0.40 % + 5.5 mA 0.41 % + 90 mA 0.41 % + 450 mA	For the calibration of current clamps and similar devices, using multi-turn coil.	
	<i>100 Hz to 440 Hz</i> 20 A to 32 A 32 A to 200 A	0.98 % + 27 mA 0.87 % + 250 mA		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
OSCILLOSCOPES				Pride Park
Frequency	10 Hz to 300 MHz	19 μ Hz/Hz + 12 mHz		
Time Markers	0.2 Hz to 20 Hz 50 Hz to 500 MHz	58 μ s/s 19 μ s/s		
DC Voltage	1 M Ω 0 V to 33 V	0.19 % + 78 μ V		
	50 Ω 0 V to 2.2 V	0.20 % + 78 μ V		
Square Wave Peak to Peak 1 M Ω	10 Hz to 10 kHz 1.8 mV to 105 V	0.21 % + 79 μ V		
	50 Ω 10 Hz to 10 kHz 1.8 mV to 2.2 V	0.21 % + 78 μ V		
Amplitude Edge Function	1 kHz to 1 MHz 1.8 mV to 105 V	1.6 % + 170 μ V		
	Risetime	1 kHz to 1 MHz	36 ps	
Sine Wave Peak to Peak	5 mV to 5.5 V 50 kHz	1.6 % + 230 μ V		
	5 mV to 100 mV 50 kHz to 100 MHz 100 MHz to 300 MHz	1.7 % + 78 μ V 1.9 % + 78 μ V		
	100 mV to 5.6 V 50 kHz to 100 MHz 100 MHz to 300 MHz	1.5 % + 78 μ V 1.8 % + 78 μ V		
Amplitude Wave Generator	10 Hz to 100 kHz 1.8 mV to 55 V	2.3 % + 78 μ V		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
FREQUENCY				Pride Park
Specific Values	1 MHz and 10 MHz	1.2 parts in 10^9	For calibrating oscillators	
Other Values	0.1 Hz to 1 Hz 1 Hz to 10 Hz 10 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz to 60 MHz 60 MHz to 100 MHz 100 MHz to 150 MHz 150 MHz to 500 MHz	1.5 parts in 10^3 1.5 parts in 10^4 1.5 parts in 10^5 1.5 parts in 10^6 1.5 parts in 10^7 1.7 parts in 10^8 3.9 parts in 10^9 2.5 parts in 10^9 1.2 parts in 10^9 2.4 parts in 10^9 1.4 parts in 10^9	Measurement capability only above 60 MHz	
ELAPSED TIME				
Stop watches (mechanical and electronic)	± 0.5 s error / 24 hours ± 2.0 s error / 24 hours 10 s to 24 hours	0.062 s 0.090 s 0.41 s	Time reference measurement per 24 hour period per 24 hour period Real time measurement	
TEMPERATURE SIMULATION				
Temperature indicators and simulators (thermocouple type), calibration by electrical simulation				
Base metal thermocouples	Type J, -210 °C to 0 °C Type J, 0 °C to 1200 °C Type K, -270 °C to -200 °C Type K, -200 °C to 0 °C Type K, 0 °C to 1370 °C Type N, -270 °C to -200 °C Type N, -200 °C to 0 °C Type N, 0 °C to 1300 °C Type T, -270 °C to -200 °C Type T, -200 °C to 0 °C Type T, 0 °C to 400 °C	0.064 °C 0.018 °C 0.23 °C 0.070 °C 0.022 °C 0.62 °C 0.084 °C 0.027 °C 0.19 °C 0.070 °C 0.020 °C	excluding cold junction compensation excluding cold junction compensation excluding cold junction compensation excluding cold junction compensation	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
Temperature indicators and simulators (thermocouple type), calibration by electrical simulation (continued)				
Cold junction compensation	At ambient temperature of 20 °C ± 2.0 °C	0.13 °C		Pride Park
Base metal thermocouples	Type J, -210 °C to 0 °C	0.14 °C	including cold junction compensation	
	Type J, 0 °C to 1200 °C	0.13 °C		
	Type K, -270 °C to -200 °C	0.24 °C		
	Type K, -200 °C to 0 °C	0.15 °C	including cold junction compensation	
	Type K, 0 °C to 1370 °C	0.13 °C		
	Type N, -270 °C to -200 °C	0.53 °C		
	Type N, -200 °C to 0 °C	0.15 °C	including cold junction compensation	
	Type N, 0 °C to 1300 °C	0.13 °C		
	Type T, -270 °C to -200 °C	0.21 °C		
Noble metal thermocouples	Type T, -200 °C to 0 °C	0.15 °C	including cold junction compensation	
	Type T, 0 °C to 400 °C	0.13 °C		
	-50 °C to 0 °C	0.19 °C		
	0 °C to 250 °C	0.17 °C	excluding cold junction compensation	
	250 °C to 1760 °C	0.089 °C		
Cold junction compensation	At ambient temperature of 20 °C ± 2 °C	0.17 °C		
Temperature indicators and simulators (thermocouple type), calibration by electrical simulation				
Noble metal thermocouples	-50 °C to 0 °C	0.24 °C	including cold junction compensation	
	0 °C to 250 °C	0.22 °C		
	250 °C to 1760 °C	0.18 °C		
PRT simulation (Pt 100)	-200 °C to 0 °C	0.017 °C		
	0 °C to 100 °C	0.018 °C		
	100 °C to 400 °C	0.020 °C		
	400 °C to 630 °C	0.023 °C		
	630 °C to 850 °C	0.026 °C		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TEMPERATURE				
Thermocouples			Calibration by comparison performed in a stirred liquid bath	Pride Park
Base metal	-40 °C to +200 °C	0.80 °C		
Noble metal	-40 °C to +200 °C	1.1 °C		
Resistance thermometers	-40 °C to +200 °C	0.070 °C		
Electronic thermometers with sensors; analogue or digital	Ranges as per sensor	As per sensor type		
HUMIDITY				
Dew point	-10 °C to 0 °C 0 °C to 20 °C	0.12 °C 0.10 °C	Calibration by comparison with a dew-point hygrometer	
Relative Humidity	In the range 5 °C to 23 °C 5 %rh to 95 %rh In the range 23 °C to 60 °C 5 %rh to 95 %rh	2.3 %rh to 0.91 %rh 0.91 %rh to 1.09 %rh	Calibration by comparison with a reference polymer-based sensor hygrometer and platinum resistance thermometers. Example conditions corresponding to the air temperature ranges	
Air Temperature	5 °C to 23 °C 23 °C to 60 °C	0.32 °C to 0.15 °C 0.15 °C to 0.23 °C	Calibration by comparison with platinum resistance thermometers	
PRESSURE				
Hydraulic pressure (Gauge)			Methods consistent with EURAMET CG17	Ansty
Pressure indicating instruments and gauges	600 kPa to 6 MPa 6 MPa to 10 MPa 10 MPa to 120 MPa	0.010 % 0.012 % 0.010 %	Calibration of pressure measuring devices with an electrical output may be undertaken.	
Pneumatic pressure (Gauge)				
Pressure indicating instruments and gauges	3.70 kPa to 3.5 MPa	0.010 %		
Pneumatic pressure (Absolute)				
Pressure indicating instruments and gauges	3.70 kPa to 3.5 MPa	0.010 % + 5.0 Pa		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TORQUE Hand torque tools	CCP 3.6.6 issue 15 0.113 N·m to 1356 N·m	1.0 %	The quoted uncertainty will be particularly dependent on the repeatability of the unit under test.	Ansty
LENGTH Thread measuring cylinders Plain plug gauges (parallel), cylindrical setting standards, gear measuring cylinders and rollers Plain ring gauges (parallel) and setting standards Length gauges, flat and spherical ended Plain gap gauges (parallel) Screw plug gauges (parallel) excluding check and setting plugs	BS3777:1964 and BS 5590:1978 and specials 0.1 to 5.0 diameter 1 to 50 diameter 50 to 100 diameter 100 to 150 diameter CCP 2.3.2, issue 12 1 to 50 diameter 50 to 100 diameter 100 to 150 diameter 0 m to 1 m BS 969:2008 2 to 50 50 to 100 100 to 200 1 to 100 diameter	0.50 on diameter 0.50 0.80 1.0 } on diameter 0.90 1.2 1.8 } on diameter 1.0 + (5.0 x length in m) 3.0 5.0 8.0 2.5 on pitch diameter	By comparison with end standards using a length measuring machine. By comparison with end standards using a length measuring machine Using a horizontal measuring machine and/or end standards Single start symmetrical thread forms only. By comparison with end standards using a length measuring machine.	Inchinnan



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
MEASURING INSTRUMENTS AND MACHINES LENGTH			Instrument entries in this section of the schedule also cover digital and dial.	Inchinnan
External micrometer	Based on BS 870:2008, CCP 2.4.1 issue 14 0 to 300 Heads: (Zero) Setting, 0 to 25: (Zero) Setting, 25 to 600: Flatness of anvils: Parallelism of anvils: Spindle alignment:	2.0 between any two points 1.0 1.0 + (8.0 x length in m) 0.50 0.80 10	type gauges which are calibrated based on the quoted standards	
Depth micrometer	As BS 6468:2008 0 to 300 Heads: Zero Setting: Base Flatness: Rod Flatness: Parallelism: Rod axis of rotation: Squareness of:- Face to spindle / rod axis: Rod axis to datum face	2.0 between any two points 1.0 + (5.0 x length in m) 3.0 0.50 3.0 8.0 8.0 8.0		
Vernier gauges Caliper	Based on BS 887:2008 0 to 300 Overall performance: Flatness: Parallelism: Squareness: Co-Planer: Width of internal jaws:	10 + (30 x length in m) 3.0 4.0 8.0 25 6.0		
Height	Based on BS 1643:2008 0 to 300 Overall performance: Flatness: Parallelism: Depth of Jaw / Scriber:	10 + (30 x length in m) 3.0 4.0 7.0		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
MEASURING INSTRUMENTS AND MACHINES LENGTH Vernier gauges Depth Dial gauges and dial test indicators TORQUE Hand torque tools	Based on BS 6365:2008 0 to 300 Overall performance: Flatness / Straightness: Parallelism: BS 907:2008 and BS 2795:1981 0 to 50 Scale interval measurements: Discrimination:	0 + (30 x length in m) 3.0 4.0 1.0 1.3	The quoted uncertainty will be particularly dependent on the repeatability of the unit under test	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
LENGTH External micrometer	BS 870:2008, CCP 2.4.1 issue 14 0 to 600	Heads: 2.0 between any two points (Zero) Setting, 0 to 25: 1.0 (Zero) Setting, 25 to 600: 1.0 + (8.0 x length in m) Flatness of anvils: 0.50 Parallelism of anvils: 0.80 Spindle alignment: 10	Instrument entries in this section of the schedule also cover digital and dial type gauges which are calibrated based on the quoted standards.	Washington
Internal micrometer	BS 959:2008 0 to 300	Heads: 2.0 Setting and Extension rods: 1.0 + (5.0 x length in m)		
Depth micrometer	BS 6468:2008 0 to 150	Heads: 2.0 Setting and Extension rods: 1.0 + (5.0 x length in m)		
Vernier gauges Caliper	Based on BS 887:2008 0 to 600	Overall performance: 10 + (30 x length in m) Flatness: 3.0 Parallelism: 4.0 Squareness: 8.0 Co-Planer: 25 Width of internal jaws: 6.0		
Depth	Based on BS 6365:2008 0 to 150	Overall performance: 10 + (30 x length in m) Flatness / Straightness: 3.0 Parallelism: 4.0		
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50	Scale interval measurements: 1.5 Discrimination: 1.3		
TORQUE Hand torque tools	CCP 3.6.6 issue 15 0.1 N·m to 1000 N·m	1.0 %		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
FUEL FLOW Flow rate - volume Flow rate - mass TORQUE Hand torque tools	5 l/hr to 27000 l/hr 4 kg/hr to 21330 kg/hr CCP 3.6.6 issue 15 0.1 N·m to 1000 N·m	0.10 % 0.20 % 1.0 %	Piston prover method Calibration fluid AVTUR (Aviation fuel) The quoted uncertainty will be particularly dependent on the repeatability of the unit under test	Bristol



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code	
ELECTRICAL MEASUREMENTS					
DC RESISTANCE					
Measurement	0 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2 k Ω 2 k Ω to 20 k Ω 20 k Ω to 200 k Ω 200 k Ω to 2 M Ω 2 M Ω to 20 M Ω 20 M Ω to 200 M Ω 200 M Ω to 1 G Ω	28 $\mu\Omega/\Omega + 25 \mu\Omega$ 16 $\mu\Omega/\Omega + 100 \mu\Omega$ 13 $\mu\Omega/\Omega + 1.0 \text{ m}\Omega$ 13 $\mu\Omega/\Omega + 10 \text{ m}\Omega$ 16 $\mu\Omega/\Omega + 100 \text{ m}\Omega$ 27 $\mu\Omega/\Omega + 2.0 \Omega$ 75 $\mu\Omega/\Omega + 100 \Omega$ 500 $\mu\Omega/\Omega + 12 \text{ k}\Omega$ 1.0 % + 1.1 M Ω		Solihull	
DC VOLTAGE					
Measurement	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1 kV	11 $\mu\text{V}/\text{V} + 1.2 \mu\text{V}$ 8.5 $\mu\text{V}/\text{V} + 0.9 \mu\text{V}$ 8.5 $\mu\text{V}/\text{V} + 4.0 \mu\text{V}$ 13 $\mu\text{V}/\text{V} + 60 \mu\text{V}$ 13 $\mu\text{V}/\text{V} + 600 \mu\text{V}$			
DC CURRENT					
Measurement	0 μA to 200 μA 200 μA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A	140 $\mu\text{A}/\text{A} + 0.60 \text{ nA}$ 130 $\mu\text{A}/\text{A} + 6.0 \text{ nA}$ 130 $\mu\text{A}/\text{A} + 60 \text{ nA}$ 130 $\mu\text{A}/\text{A} + 1.3 \mu\text{A}$ 240 $\mu\text{A}/\text{A} + 25 \mu\text{A}$			
AC VOLTAGE					
Measurement	10 mV to 200 mV 40 Hz to 10 kHz	320 $\mu\text{V}/\text{V} + 5.0 \mu\text{V}$			
	200 mV to 2 V 40 Hz to 10 kHz	210 $\mu\text{V}/\text{V} + 25 \mu\text{V}$			
	2 V to 20 V 40 Hz to 10 kHz	210 $\mu\text{V}/\text{V} + 250 \mu\text{V}$			
	20 V to 200 V 40 Hz to 10 kHz	210 $\mu\text{V}/\text{V} + 2.5 \text{ mV}$			
	200 V to 1 kV 55 Hz to 1 kHz 1 kHz to 10 kHz	360 $\mu\text{V}/\text{V} + 50 \text{ mV}$ 450 $\mu\text{V}/\text{V} + 50 \text{ mV}$			



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
AC CURRENT				Solihull
Measurement	10 μ A to 200 μ A 55 Hz to 1 kHz	600 μ A/A + 25 nA		
	200 μ A to 2 mA 55 Hz to 1 kHz	400 μ A/A + 250 nA		
	2 mA to 20 mA 55 Hz to 1 kHz	400 μ A/A + 2.5 μ A		
	20 mA to 200 mA 55 Hz to 1 kHz	400 μ A/A + 25 μ A		
	200 mA to 2 A 55 Hz to 1 kHz	900 μ A/A + 500 μ A		
DC RESISTANCE				
Generation				
Specific Values	10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω 1 M Ω 10 M Ω 100 M Ω	35 $\mu\Omega/\Omega$ 15 $\mu\Omega/\Omega$ 15 $\mu\Omega/\Omega$ 15 $\mu\Omega/\Omega$ 15 $\mu\Omega/\Omega$ 18 $\mu\Omega/\Omega$ 80 $\mu\Omega/\Omega$ 180 $\mu\Omega/\Omega$		
Other Values	0 Ω 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 11 M Ω to 33 M Ω 33 M Ω to 110 M Ω 110 M Ω to 330 M Ω	180 $\mu\Omega/\Omega$ + 11 m Ω 150 $\mu\Omega/\Omega$ + 19 m Ω 110 $\mu\Omega/\Omega$ + 19 m Ω 110 $\mu\Omega/\Omega$ + 19 m Ω 110 $\mu\Omega/\Omega$ + 90 m Ω 110 $\mu\Omega/\Omega$ + 90 m Ω 110 $\mu\Omega/\Omega$ + 900 m Ω 110 $\mu\Omega/\Omega$ + 900 m Ω 140 $\mu\Omega/\Omega$ + 9.0 Ω 150 $\mu\Omega/\Omega$ + 9.0 Ω 180 $\mu\Omega/\Omega$ + 80 Ω 200 $\mu\Omega/\Omega$ + 80 Ω 710 $\mu\Omega/\Omega$ + 800 Ω 0.14 % + 800 Ω 0.60 % + 8.0 k Ω 0.60 % + 21 k Ω		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
DC VOLTAGE				Solihull
Generation	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1 kV	12 $\mu\text{V/V} + 1.0 \mu\text{V}$ 7.5 $\mu\text{V/V} + 1.5 \mu\text{V}$ 6.0 $\mu\text{V/V} + 5.0 \mu\text{V}$ 8.0 $\mu\text{V/V} + 70 \mu\text{V}$ 10 $\mu\text{V/V} + 700 \mu\text{V}$		
DC CURRENT				
Generation	0 μA to 220 μA 220 μA to 2.2 mA 2.2 mA to 22 mA 22 mA to 220 mA 220 mA to 2.2 A 2.2 A to 11 A	70 $\mu\text{A/A} + 10 \text{ nA}$ 60 $\mu\text{A/A} + 12 \text{ nA}$ 60 $\mu\text{A/A} + 120 \text{ nA}$ 70 $\mu\text{A/A} + 1.2 \mu\text{A}$ 100 $\mu\text{A/A} + 35 \mu\text{A}$ 400 $\mu\text{A/A} + 400 \mu\text{A}$		
AC VOLTAGE				
Generation	40 Hz to 10 kHz 0.22 mV to 2.2 mV 2.2 mV to 22 mV 22 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V 22 V to 220 V	700 $\mu\text{V/V} + 6.0 \mu\text{V}$ 230 $\mu\text{V/V} + 7.0 \mu\text{V}$ 140 $\mu\text{V/V} + 10 \mu\text{V}$ 100 $\mu\text{V/V} + 14 \mu\text{V}$ 100 $\mu\text{V/V} + 130 \mu\text{V}$ 110 $\mu\text{V/V} + 1.5 \text{ mV}$		
	55 Hz to 1 kHz 220 V to 1 kV	120 $\mu\text{V/V} + 8.0 \text{ mV}$		
AC CURRENT				
Generation	55 Hz to 1 kHz 10 μA to 220 μA 220 μA to 2.2 mA 2.2 mA to 22 mA 22 mA to 220 mA 220 mA to 2.2 A	260 $\mu\text{A/A} + 20 \text{ nA}$ 250 $\mu\text{A/A} + 55 \text{ nA}$ 200 $\mu\text{A/A} + 550 \text{ nA}$ 200 $\mu\text{A/A} + 5.5 \mu\text{A}$ 800 $\mu\text{A/A} + 55 \mu\text{A}$		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
MEASURING INSTRUMENTS AND MACHINES				
Micrometers External micrometer	BS 870:2008 0 to 300 Heads: (Zero) Setting, 0 to 25: (Zero) Setting, 25 to 600: Flatness of anvils: Parallelism of anvils: Spindle alignment:	2.0 between any two points 1.0 1.0 + (8.0 x length in m) 0.50 0.80 10	Instrument entries in this section of the schedule also cover digital and dial type gauges which are calibrated based on the quoted standards.	Solihull
Depth micrometer	As BS 6468:2008 0 to 300 Heads: Zero Setting: Base Flatness: Rod Flatness: Parallelism: Rod axis of rotation: Squareness of:- Face to spindle / rod axis: Rod axis to datum face:	2.0 between any two points 1.0 + (8.0 x length in m) 3.0 0.50 3.0 8.0 8.0 8.0		
Vernier gauges Caliper	Based on BS 887:2008 0 to 600 Overall performance: Flatness: Parallelism: Squareness: Co-Planer: Width of internal jaws:	10 + (30 x length in m) 3.0 4.0 8.0 25 6.0		
Height	Based on BS 1643:2008 0 to 600 Overall performance: Flatness: Parallelism: Depth of Jaw / Scriber:	10 + (30 x length in m) 3.0 4.0 7.0		
Depth	Based on BS 6365:2008 0 to 300 Overall performance: Flatness / Straightness: Parallelism:	10 + (30 x length in m) 3.0 4.0		
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50 Scale interval measurements: Discrimination:	1.0 1.3		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
FORM Surface plates Granite Cast iron ELECTRICAL Temperature indicators and simulators (thermocouple type), calibration by electrical simulation: Base metal thermocouple types Noble metal thermocouple types RTD Pt100	As BS 817:2008 160 x 100 to 4 m x 4 m Type J, -210 °C to 0 °C Type J, 0 °C to 1200 °C Type K, -270 °C to -200 °C Type K, -200 °C to 0 °C Type K, 0 °C to 1000 °C Type K, 1000 °C to 1370 °C Type N, -270 °C to -200 °C Type N, -200 °C to -100 °C Type N, -100 °C to 0 °C Type N, 0 °C to 800 °C Type N, 800 °C to 1300 °C Type T, -270 °C to -200 °C Type T, -200 °C to 0 °C Type T, 0 °C to 400 °C Type R, -50 °C to 0 °C Type R, 0 °C to 150 °C Type R, 150 °C to 400 °C Type R, 400 °C to 1768 °C Type S, -50 °C to 0 °C Type S, 0 °C to 100 °C Type S, 100 °C to 300 °C Type S, 300 °C to 1768 °C -200 °C to 0 °C -200 °C to 0 °C 0°C to 850 °C 0°C to 850 °C	1.5 + (0.80 x diagonal in m) See Note 2 0.36 °C 0.28 °C 4.6 °C 0.37 °C 0.29 °C 0.27 °C 1.9 °C 0.49 °C 0.34 °C 0.26 °C 0.24 °C 0.81 °C 0.36 °C 0.26 °C 0.91 °C 0.55 °C 0.55 °C 0.51 °C 0.80 °C 0.66 °C 0.55 °C 0.48 °C 0.072 °C 0.042 % + 0.072 °C 0.029 % + 0.075 °C 0.051 % + 0.075 °C	Internal Reference junction enabled. Ambient temperature range 18 °C to 22 °C (controlled customer environment). Ambient temperature range 18 °C to 28 °C -10 °C to +50 °C 18 °C to 28 °C -10 °C to +50 °C	Site



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
DC Voltage	0 V to 150 mV 0 V to 150 mV	0.023 % + 5.0 μ V 0.048 % + 5.0 μ V	Ambient temperature range 18 °C to 28 °C -10 °C to +50 °C	Site
	0.15 V to 0.25 V 0.15 V to 0.25 V	0.023 % + 8.4 μ V 0.048 % + 8.4 μ V	18 °C to 28 °C -10 °C to +50 °C	
	0.25 V to 1 V 0.25 V to 1 V	0.023 % + 12 μ V 0.048 % + 12 μ V	18 °C to 28 °C -10 °C to +50 °C	
	1 V to 25 V 1 V to 25 V	0.023 % + 0.65 mV 0.048 % + 0.65 mV	18 °C to 28 °C -10 °C to +50 °C	
	25 V to 60 V 25 V to 60 V	0.023 % + 1.2 mV 0.048 % + 1.2 mV	18 °C to 28 °C -10 °C to +50 °C	
DC Current	0 to 25 mA 0 to 25 mA	0.025 % + 1.7 μ A 0.049 % + 1.7 μ A	18 °C to 28 °C -10 °C to +50 °C	
	25 mA to 100 mA 25 mA to 100 mA	0.025 % + 2.0 μ A 0.049 % + 2.0 μ A	18 °C to 28 °C -10 °C to +50 °C	
DC Resistance	0 Ω to 250 Ω 0 Ω to 250 Ω	0.023 % + 4.3 m Ω 0.048 % + 4.3 m Ω	18 °C to 28 °C -10 °C to +50 °C	
	250 Ω to 2650 Ω 250 Ω to 2650 Ω	0.023 % + 11 m Ω 0.048 % + 11 m Ω	18 °C to 28 °C -10 °C to +50 °C	
	2650 Ω to 4000 Ω 2650 Ω to 4000 Ω	0.023 % + 100 m Ω 0.048 % + 100 m Ω	18 °C to 28 °C -10 °C to +50 °C	
TIME INTERVAL	10 s to 24 hours	1.7 s	Real time measurement	
TEMPERATURE Temperature controlled, ovens, environmental chambers, fridges and freezers.	-80 °C to 400 °C 400 °C to 1000 °C 1000 °C to 1300 °C	1.8 °C 2.0 °C 2.3 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping using procedures: QCR LCP 0020 and 0023	
END				



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Calibration performed by the Organisation at the locations specified

Appendix - Calibration and Measurement Capabilities

Introduction

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

Calibration and Measurement Capabilities (CMCs)

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

Expression of CMCs - symbols and units

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand. Thus, for example, a measurement uncertainty of 1.5 % means $1.5 \times 0.01 \times q$, where q is the quantity value.

The notation $Q[a, b]$ stands for the root-sum-square of the terms between brackets: $Q[a, b] = [a^2 + b^2]^{1/2}$