Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0394

Accredited to ISO/IEC 17025:2017

Trescal Limited

Issue No: 074 **Issue date:** 05 June 2026

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

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Calibration performed by the Organisation at the locations specified

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	Torque Dimensional	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

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

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	
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	Using a length measuring machine.	
Screw pitch	0.2 to 8	1.5	Using a projector.	
Screw flank angle	0º to 50º	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		

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. The uncertainties apply to new and used grade 0, 1 and 2 gauges to BS EN ISO 3650:1999 and BS 4311-1:2007.	
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		
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	From first principles: Dependant on size and features Minimum per co-ordinate: 3.0 + (10 x length in m)		
	1500 x 3200 x 1100	Using CMM: Dependant on size and features Minimum per co-ordinate: 5.0 + (10 x length in m)		

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	In-house methods based on BS 3064:1978	
Compound sine tables	100 to 500 length	Parallelism: 3.0 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.	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
MEASURING INSTRUMENTS AND MACHINES			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
Micrometers				
External micrometer	Based on 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		
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:	2.0 between any two points		
	Zero Setting:	1.0 + (5.0 x length in m)		
	Base Flatness:	3.0		
	Rod Flatness:	0.50		
	Parallelism:	3.0		
	Rod axis of rotation:	8.0		
	Squareness of:-			
	Face to spindle / rod axis:	8.0		
	Rod axis to datum face:	8.0		
Micrometer heads	BS 1734:1951; 0 to 100	1.0		
Height setting micrometer		Heads 1.0 Stepped column 1.6 Overall performance	By comparison with end standards.	
	0 to 300	2.2		
	300 to 480	3.0		
Riser Blocks	150	1.6	By comparison with end standards.	
	300	1.7		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
MEASURING INSTRUMENTS AND MACHINES (continued)				Pride Park
Height gauges - (Simple) including vernier, dial and digital types	BS EN ISO 13225:2012 0 to 300	4.0		
Vernier gauges				
Caliper	Based on BS 887:2008 0 to 1200			
	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		
Height	Based on BS 1643:2008 0 to 1200			
	Overall performance:	10 + (30 x length in m)		
	Flatness:	3.0		
	Parallelism:	4.0		
	Depth of Jaw / Scriber:	7.0		
Depth	Based on BS 6365:2008 0 to 600			
	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:	1.0		
	Discrimination:	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.	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TORQUE Hand torque tools (including torque screwdrivers)	BS EN ISO 6789:2017 And BS EN ISO 6789:2003 (withdrawn and superseded) and CCP 3.6.6 Issue 15 0.2 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**

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL MEASUREMENTS				Pride Park
DC VOLTAGE				
Measurement	Up to 200 mV	6.1 µV/V + 0.36 µV		
	200 mV to 2 V	3.6 µV/V + 0.46 µV		
	2 V to 20 V	3.5 µV/V + 4.0 µV		
	20 V to 200 V	5.6 µV/V + 40 µV		
	200 V to 1 000 V	5.6 µV/V + 1.0 mV		
Generation				
	0 µV to 200 µV	5.5 µV/V + 0.68 µV		
	200 µV to 2 mV	5.5 µV/V + 0.68 µV		
	2 mV to 20 mV	5.5 µV/V + 0.68 µV		
	20 mV to 200 mV	5.5 µV/V + 0.59 µV		
	200 mV to 2 V	4.0 µV/V + 1.0 µV		
	2 V to 20 V	2.4 µV/V + 5.5 µV		
	20 V to 200 V	4.0 µV/V + 80 µV		
	200 V to 1100 V	5.5 µV/V + 800 µV		
DC RESISTANCE				
Measurement	0 Ω to 2 Ω	21 µΩ/Ω + 4.0 µΩ	The stated CMCs are for a four-terminal configuration and may be increased if a two-terminal configuration is necessary.	
	2 Ω to 20 Ω	10 µΩ/Ω + 14 µΩ		
	20 Ω to 200 Ω	8.5 µΩ/Ω + 50 µΩ		
	200 Ω to 2 kΩ	8.5 µΩ/Ω + 500 µΩ		
	2 kΩ to 20 kΩ	8.5 µΩ/Ω + 5.0 mΩ		
	20 kΩ to 200 kΩ	8.5 µΩ/Ω + 50 Ω		
	200 kΩ to 2 MΩ	9.0 µΩ/Ω + 1.0 Ω		
	2 MΩ to 20 MΩ	22 µΩ/Ω + 10 Ω		
	20 MΩ to 200 MΩ	72 µΩ/Ω + 1.0 kΩ		
	200 MΩ to 2 GΩ	200 µΩ/Ω + 100 Ω		
	2 GΩ to 20 GΩ	1.5 % + 10 MΩ		
Generation				
Four terminal configuration	10 Ω	21 µΩ/Ω		
	100 Ω	7.4 µΩ/Ω		
	1 kΩ	7.4 µΩ/Ω		
	10 kΩ	7.4 µΩ/Ω		
	100 kΩ	8.2 µΩ/Ω		
	1 MΩ	28 µΩ/Ω		
	10 MΩ	41 µΩ/Ω		
	100 MΩ	74 µΩ/Ω		
Two terminal configuration	0 Ω	8.0 mΩ		
	10 Ω	9.0 mΩ		
	100 Ω	16 mΩ		
	1 kΩ	160 µΩ/Ω		
	10 kΩ	17 µΩ/Ω		
	100 kΩ	8.2 µΩ/Ω		
	1 MΩ	21 µΩ/Ω		
	10 MΩ	41 µΩ/Ω		
	100 MΩ	60 µΩ/Ω		

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

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC VOLTAGE Measurement (continued)	2 V to 20 V			
	10 Hz to 40 Hz	120 µV/V + 200 µV		
	40 Hz to 100 Hz	93 µV/V + 200 µV		
	100 Hz to 2 kHz	85 µV/V + 200 µV		
	2 kHz to 10 kHz	110 µV/V + 200 µV		
	10 kHz to 30 kHz	220 µV/V + 400 µV		
	30 kHz to 100 kHz	570 µV/V + 2.0 mV		
	100 kHz to 300 kHz	0.30 % + 20 mV		
	300 kHz to 1 MHz	1.0 % + 200 mV		
	20 V to 200 V			
	10 Hz to 40 Hz	120 µV/V + 2.0 mV		
	40 Hz to 100 Hz	93 µV/V + 2.0 mV		
	100 Hz to 2 kHz	85 µV/V + 2.0 mV		
	2 kHz to 10 kHz	120 µV/V + 2.0 mV		
	10 kHz to 30 kHz	230 µV/V + 4.0 µV		
	30 kHz to 100 kHz	570 µV/V + 20 mV		
	200 V to 1 kV			
	40 Hz to 10 kHz	120 µV/V + 40 mV		
	10 kHz to 30 kHz	240 µV/V + 80 mV		
	30 kHz to 100 kHz	580 µV/V + 400 mV		

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

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

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

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	1.5 parts in 10^3	Measurement capability only above 60 MHz	
	1 Hz to 10 Hz	1.5 parts in 10^4		
	10 Hz to 100 Hz	1.5 parts in 10^5		
	100 Hz to 1 kHz	1.5 parts in 10^6		
	1 kHz to 10 kHz	1.5 parts in 10^7		
	10 kHz to 100 kHz	1.7 parts in 10^8		
	100 kHz to 1 MHz	3.9 parts in 10^9		
	1 MHz to 60 MHz	2.5 parts in 10^9		
	60 MHz to 100 MHz	1.2 parts in 10^9		
	100 MHz to 150 MHz	2.4 parts in 10^9		
	150 MHz to 500 MHz	1.4 parts in 10^9		
ELAPSED TIME				
Stop watches (mechanical and electronic)	± 0.5 s error / 24 hours	0.062 s	Time reference measurement per 24 hour period	
	± 2.0 s error / 24 hours	0.090 s	per 24 hour period	
	10 s to 24 hours	0.41 s	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	0.064 °C	excluding cold junction compensation	
	Type J, 0 °C to 1200 °C	0.018 °C		
	Type K, -270 °C to -200 °C	0.23 °C	excluding cold junction compensation	
	Type K, -200 °C to 0 °C	0.070 °C		
	Type K, 0 °C to 1370 °C	0.022 °C		
	Type N, -270 °C to -200 °C	0.62 °C	excluding cold junction compensation	
	Type N, -200 °C to 0 °C	0.084 °C		
	Type N, 0 °C to 1300 °C	0.027 °C		
	Type T, -270 °C to -200 °C	0.19 °C		
	Type T, -200 °C to 0 °C	0.070 °C	excluding cold junction compensation	
	Type T, 0 °C to 400 °C	0.020 °C		

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)				Pride Park
Cold junction compensation	At ambient temperature of 20 °C ± 2.0 °C	0.13 °C		
Base metal thermocouples	Type J, -210 °C to 0 °C	0.14 °C		
	Type J, 0 °C to 1200 °C	0.13 °C	including cold junction compensation	
	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		
	Type T, -200 °C to 0 °C	0.15 °C	including cold junction compensation	
	Type T, 0 °C to 400 °C	0.13 °C		
Noble metal thermocouples	-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		
	0 °C to 250 °C	0.22 °C	including cold junction compensation	
	250 °C to 1760 °C	0.18 °C		
PRT simulation (Pt 100)	-200 °C to 0 °C	0.017 °C		
	0 ºC to 100 ºC	0.018 ºC		
	100 ºC to 400 ºC	0.020 ºC		
	400 ºC to 630 ºC	0.023 ºC		
	630 °C to 850 °C	0.026 °C		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEMPERATURE			Calibration by comparison performed in a stirred liquid bath	Pride Park
Thermocouples				
Base metal	-40 °C to +200 °C	0.80 °C		
Resistance thermometers	-40 ºC to +200 ºC	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 90 %rh	2.3 %rh to 0.91 %rh	Calibration by comparison with a reference polymer-based sensor hygrometer and platinum resistance thermometers. Example conditions corresponding to the air temperature ranges	
	In the range 23 °C to 60 °C 5 %rh to 90 %rh	0.91 %rh to 1.09 %rh		
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			Methods consistent with EURAMET CG17	Ansty
Hydraulic pressure (Gauge)				
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		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TORQUE				**Ansty**
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.	
LENGTH				**Inchinnan**
Thread measuring cylinders	BS3777:1964 and BS 5590:1978 and specials 0.1 to 5.0 diameter	0.50 on diameter		
Plain plug gauges (parallel), cylindrical setting standards, gear measuring cylinders and rollers	1 to 50 diameter 50 to 100 diameter 100 to 150 diameter	0.50 0.80 1.0 on diameter	By comparison with end standards using a length measuring machine.	
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	0.90 1.2 1.8 on diameter		
Length gauges, flat and spherical ended	0 m to 1 m	1.0 + (5.0 x length in m)	By comparison with end standards using a length measuring machine	
Plain gap gauges (parallel)	BS 969:2008 2 to 50 50 to 100 100 to 200	 3.0 5.0 8.0	Using a horizontal measuring machine and/or end standards	
Screw plug gauges (parallel) excluding check and setting plugs	1 to 100 diameter	2.5 on pitch diameter	Single start symmetrical thread forms only. By comparison with end standards using a length measuring machine.	

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			Instrument entries in this section of the schedule also cover digital and dial. type gauges which are calibrated based on the quoted standards	
LENGTH				
External micrometer	Based on BS 870:2008, CCP 2.4.1 issue 14			
	0 to 300			
	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		
Depth micrometer	As BS 6468:2008			
	0 to 300			
	Heads:	2.0 between any two points		
	Zero Setting:	1.0 + (5.0 x length in m)		
	Base Flatness:	3.0		
	Rod Flatness:	0.50		
	Parallelism:	3.0		
	Rod axis of rotation:	8.0		
	Squareness of:-			
	Face to spindle / rod axis:	8.0		
	Rod axis to datum face	8.0		
Vernier gauges				
Caliper	Based on BS 887:2008			
	0 to 300			
	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		
Height	Based on BS 1643:2008			
	0 to 300			
	Overall performance:	10 + (30 x length in m)		
	Flatness:	3.0		
	Parallelism:	4.0		
	Depth of Jaw / Scriber:	7.0		
				Inchinnan

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
MEASURING INSTRUMENTS AND MACHINES LENGTH				Inchinnan
Vernier gauges	Based on BS 6365:2008			
Depth	0 to 300 Overall performance: Flatness / Straightness: Parallelism:	 0 + (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		
TORQUE				
Hand torque tools	CCP 3.6.6 issue 15 0.136 N·m to 677.91 N·m	1.0 %	The quoted uncertainty will be particularly dependent on the repeatability of the unit under test	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
LENGTH			Instrument entries in this section of the schedule also cover digital and dial type gauges which are calibrated based on the quoted standards.	Washington
External micrometer	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		
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: Flatness: Parallelism: Squareness: Co-Planer: Width of internal jaws:	 10 + (30 x length in m) 3.0 4.0 8.0 25 6.0		
Depth	Based on BS 6365:2008 0 to 150 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:	 1.5 1.3		
TORQUE				
Hand torque tools	CCP 3.6.6 issue 15 0.1 N·m to 1000 N·m	1.0 %	The quoted uncertainty will be particularly dependent on the repeatability of the unit under test	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TORQUE				Bristol
Hand torque tools	CCP 3.6.6 issue 15 0.1 N·m to 1000 N·m	1.0 %	The quoted uncertainty will be particularly dependent on the repeatability of the unit under test	
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH			Instrument entries in this section of the schedule also cover digital and dial type gauges which are calibrated based on the quoted standards.	Bristol
External micrometer	CCP 2.4.1 issue 14 0 to 300			
	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		
Vernier gauges Caliper	Based on BS 887:2008 0 to 300			
	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		

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

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC CURRENT				Solihull
Measurement	10 µA to 200 µA *55 Hz to 1 kHz*	600 µA/A + 25 nA		
	200 µA to 2 mA *55 Hz to 1 kHz*	400 µA/A + 250 nA		
	2 mA to 20 mA *55 Hz to 1 kHz*	400 µA/A + 2.5 µA		
	20 mA to 200 mA *55 Hz to 1 kHz*	400 µA/A + 25 µA		
	200 mA to 2 A *55 Hz to 1 kHz*	900 µA/A + 500 µA		
DC RESISTANCE				
Generation				
Specific Values	10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 M Ω 10 MΩ 100 MΩ	35 µΩ/Ω 15 µΩ/Ω 15 µΩ/Ω 15 µΩ/Ω 15 µΩ/Ω 18 µΩ/Ω 80 µΩ/Ω 180 µΩ/Ω		
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 kΩ 1.1 kΩ to 3.3 kΩ 3.3 kΩ to 11 kΩ 11 kΩ to 33 kΩ 33 kΩ to 110 kΩ 110 kΩ to 330 kΩ 330 kΩ to 1.1 MΩ 1.1 MΩ to 3.3 MΩ 3.3 MΩ to 11 MΩ 11 MΩ to 33 MΩ 33 MΩ to 110 MΩ 110 MΩ to 330 MΩ	180 µΩ/Ω + 11 mΩ 150 µΩ/Ω + 19 mΩ 110 µΩ/Ω + 19 mΩ 110 µΩ/Ω + 19 mΩ 110 µΩ/Ω + 90 mΩ 110 µΩ/Ω + 90 mΩ 110 µΩ/Ω + 900 mΩ 110 µΩ/Ω + 900 mΩ 140 µΩ/Ω + 9.0 Ω 150 µΩ/Ω + 9.0 Ω 180 µΩ/Ω + 80 Ω 200 µΩ/Ω + 80 Ω 710 µΩ/Ω + 800 Ω 0.14 % + 800 Ω 0.60 % + 8.0 kΩ 0.60 % + 21 kΩ		

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 µV/V + 1.0 µV 7.5 µV/V + 1.5 µV 6.0 µV/V + 5.0 µV 8.0 µV/V + 70 µV 10 µV/V + 700 µV		
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 µA/A + 10 nA 60 µA/A + 12 nA 60 µA/A + 120 nA 70 µA/A + 1.2 µA 100 µA/A + 35 µA 400 µA/A + 400 µA		
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 *55 Hz to 1 kHz* 220 V to 1 kV	 700 µV/V + 6.0 µV 230 µV/V + 7.0 µV 140 µV/V + 10 µV 100 µV/V + 14 µV 100 µV/V + 130 µV 110 µV/V + 1.5 mV 120 µV/V + 8.0 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 to 2.2 A*	 260 µA/A + 20 nA 250 µA/A + 55 nA 200 µA/A + 550 nA 200 µA/A + 5.5 µA 800 µA/A + 55 µA		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
MEASURING INSTRUMENTS AND MACHINES			Instrument entries in this section of the schedule also cover digital and dial type gauges which are calibrated based on the quoted standards.	Solihull
Micrometers				
External micrometer	BS 870:2008 0 to 300			
	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		
Depth micrometer	As BS 6468:2008 0 to 300			
	Heads:	2.0 between any two points		
	Zero Setting:	1.0 + (8.0 x length in m)		
	Base Flatness:	3.0		
	Rod Flatness:	0.50		
	Parallelism:	3.0		
	Rod axis of rotation:	8.0		
	Squareness of:-			
	Face to spindle / rod axis:	8.0		
	Rod axis to datum face:	8.0		
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		
Height	Based on BS 1643:2008 0 to 600			
	Overall performance:	10 + (30 x length in m)		
	Flatness:	3.0		
	Parallelism:	4.0		
	Depth of Jaw / Scriber:	7.0		
Depth	Based on BS 6365:2008 0 to 300			
	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:	1.0		
	Discrimination:	1.3		

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

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
DC Voltage			Ambient temperature range	Site
	0 V to 150 mV	0.023 % + 5.0 µV	18 °C to 28 °C	
	0 V to 150 mV	0.048 % + 5.0 µV	-10 °C to +50 °C	
	0.15 V to 0.25 V	0.023 % + 8.4 µV	18 °C to 28 °C	
	0.15 V to 0.25 V	0.048 % + 8.4 µV	-10 °C to +50 °C	
	0.25 V to 1 V	0.023 % + 12 µV	18 °C to 28 °C	
	0.25 V to 1 V	0.048 % + 12 µV	-10 °C to +50 °C	
	1 V to 25 V	0.023 % + 0.65 mV	18 °C to 28 °C	
	1 V to 25 V	0.048 % + 0.65 mV	-10 °C to +50 °C	
	25 V to 60 V	0.023 % + 1.2 mV	18 °C to 28 °C	
	25 V to 60 V	0.048 % + 1.2 mV	-10 °C to +50 °C	
DC Current	0 to 25 mA	0.025 % + 1.7 µA	18 °C to 28 °C	
	0 to 25 mA	0.049 % + 1.7 µA	-10 °C to +50 °C	
	25 mA to 100 mA	0.025 % + 2.0 µA	18 °C to 28 °C	
	25 mA to 100 mA	0.049 % + 2.0 µA	-10 °C to +50 °C	
DC Resistance	0 Ω to 250 Ω	0.023 % + 4.3 mΩ	18 °C to 28 °C	
	0 Ω to 250 Ω	0.048 % + 4.3 mΩ	-10 °C to +50 °C	
	250 Ω to 2650 Ω	0.023 % + 11 mΩ	18 °C to 28 °C	
	250 Ω to 2650 Ω	0.048 % + 11 mΩ	-10 °C to +50 °C	
	2650 Ω to 4000 Ω	0.023 % + 100 mΩ	18 °C to 28 °C	
	2650 Ω to 4000 Ω	0.048 % + 100 mΩ	-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	1.8 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping using procedures: QCR LCP 0020 and 0023	
	400 °C to 1000 °C	2.0 °C		
	1000 °C to 1300 °C	2.3 °C		

END

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: $Q[a, b] = [a^2 + b^2]^{1/2}$