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: 070 Issue date: 05 February 2025

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Blackbushe Business Park

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GU46 6GT

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E-Mail: ukcal@trescal.com Website: www.trescal.com

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 Gail Bould 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 Scott Fleming Tel: +44 (0) 141 626 8149 Email: scott.fleming2@rolls-royce.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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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 Mr 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.perker@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 Gail Bould 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	0.0040
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)

	- Calibration and IVI	easurement Capability	(OIVIO)	
Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
	RANGE IN MILLIMETRES. UNLESS	AND UNCERTAINTY IN MI OTHERWISE STATED	CROMETRES	
LENGTH Thread measuring cylinders Plain plug gauges (parallel), cylindrical setting standards, gear measuring cylinders and rollers. See Note 6 Plain ring gauges (parallel) and setting standards Length gauges, flat and spherical ended See Note 6 Length bars Inspection and workshop grades 1 and 2 Plain gap gauges (parallel) Screw plug gauges (parallel)	UNLESS BS3777:1964 and BS 5590:1978 and specials 0.1 to 5.0 diameter 1 to 50 diameter 50 to 100 100 to 150 150 to 200 200 to 300 CCP 2.3.2, issue 12 1 to 50 diameter 50 to 100 diameter 100 to 150 diameter 100 to 150 diameter 150 to 200 diameter 0 m to 3 m BS 1790:1961 BS 969:2008 0.5 to 100 100 to 200 200 to 300 1 to 100 diameter	0.50 on diameter 0.50 0.80 1.0 1.2 1.6 0.90 1.2 1.8 2.5 1.0 + (5.0 x length in m) 1.0 + (1.6 x length in m)	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.	Pride Park
including check and setting plugs See Notes 5 and 6 Screw ring gauges (parallel) See Notes 4 and 6	5 to 75 diameter 100 to 300 diameter 100 to 150 diameter 150 to 300 diameter	5.0 On pitch diameter 4.0 5.0 8.0	6 By comparison with end standards using a length measuring machine.	
Screw pitch Screw flank angle Parallels	0.2 to 8 0° to 50° BS 906:Parts 1 and 2:1992	1.5 5.0 minutes of arc 1.5 to 5.0	Using a length measuring machine. Using a projector.	
	5 to (50 x 100 x 400)	, , , , , , , , , , , , , , , , , , , ,		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
LENGTH (continued)				
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	
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	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.	
Vee blocks	BS 3731:1987 20 to 150 diameter, Vee capacity	2.5 to 5.0		
Receiver, position and profile gauges, jigs, fixtures	1500 x 750 x 750	From first principles: Dependant on size and features Minimum per coordinate: 3.0 + (10 x length in m)		Pride Park
	1500 x 3200 x 1100	Using CMM: Dependant on size and features Minimum per co- ordinate: 5.0 + (10 x length in m)		
ANGLE				
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		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ANGLE (continued)				
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 Compound sine tables	100 to 500 length or between centres 100 to 500 length	Linear dimensions: 1.5 + (10 x length in m) Flatness: 2.4 Parallelism: 3.0	In-house methods based on BS 3064:1978	Pride Park
300, pount on a table	700 to 000 to 1gu	Overall performance 4.0 seconds of arc		<i>*</i>
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 INSTRUMENT 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.	
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)		Pride Park
Depth micrometer	Based on BS 6468:2008 0 to 300	Heads: 2.0 Setting and Extension rods: 1.0 + (5.0 x length in m)		
Micrometer heads	BS 1734:1951; 0 to 100	1.0		
Height setting micrometer	0 to 300	Heads 1.0 Stepped column 1.6 Overall performance 2.0	By comparison with end standards.	
Riser Blocks	150 300	1.6 1.7	By comparison with end standards.	

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
MEASURING INSTRUMENT (continued)	TS AND MACHINES			
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: 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		Pric
Depth	Based on BS 6365:2008 0 to 600 Overall performance: Flatness / Straightness: Parallelism:	10 + (30 x length in m) 3.0 4.0		Pride Park
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 13 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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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL MEASUREM	ENTS			
DC VOLTAGE				
Measurement	Up to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1 000 V	5.5 μV/V + 1.3 μV 5.1 μV/V 6.1 μV/V 9.4 μV/V 9.6 μV/V		
Generation				
	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1100 V	5.5 µV/V + 0.68 µV 4.0 µV/V + 1.0 µV 2.4 µV/V + 5.5 µV 4.0 µV/V + 80 µV 5.5 µV/V + 0.8039 mV		
DC RESISTANCE				
Measurement	0 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 200 kΩ 200 kΩ to 2 MΩ 2 MΩ to 20 MΩ 20 MΩ to 200 MΩ 200 MΩ to 2 GΩ	30 μΩ/Ω + 20 μΩ 13 μΩ/Ω 14 μΩ/Ω 24 μΩ/Ω 55 μΩ/Ω 450 μΩ/Ω 0.50%	The stated CMCs are for a four- terminal configuration and may be increased if a two-terminal configuration is necessary.	Pride Park
Generation				
Four terminal configuration	10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ	$\begin{array}{c} 21 \; \mu \Omega / \Omega \\ 7.4 \; \mu \Omega / \Omega \\ 7.4 \; \mu \Omega / \Omega \\ 7.4 \; \mu \Omega / \Omega \\ 8.2 \; \mu \Omega / \Omega \\ 28 \; \mu \Omega / \Omega \\ 41 \; \mu \Omega / \Omega \\ 60 \; \mu \Omega / \Omega \end{array}$		
Two terminal configuration	0 Ω, 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ	8.0 mΩ 9.0 mΩ 16 mΩ 160 μΩ/Ω 17 μΩ/Ω 8.2 μΩ/Ω 21 μΩ/Ω 41 μΩ/Ω 60 μΩ/Ω		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
DC CURRENT				
Measurement	10 μA to 200 μA 200 μA to 200 mA 200 mA to 2 A	100 μΑ/Α 100 μΑ/Α 170 μΑ/Α		
Generation	10 µA to 200 µA 200 µA 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 μA/A +1.6 nA 32 μA/A + 9.3 nA 32 μA/A + 93 nA 32 μA/A + 930 nA 79 μA/A + 18 μA 120 μA/A + 440 μA 590 μA/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 μA/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 10 kHz 10 kHz to 30 kHz 30 kHz to 50 kHz 200 mV to 2 V 10 Hz to 10 kHz 10 kHz to 50 kHz	390 μV/V 640 μV/V 0.17% 190 μV/V 270 μV/V		Pride Park
	30 kHz to 50 kHz 2 V to 20 V 10 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 50 kHz	870 μV/V 180 μV/V 270 μV/V 870 μV/V		
	20 V to 200 V 10 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 50 kHz	190 μV/V 270 μV/V 870 μV/V		
	200 V to 300 V 40 Hz to 10 kHz 10 kHz to 30 kHz	250 μV/V 390 μV/V		
	300 V to 1 kV 40 Hz to 10 kHz 10 kHz to 30 kHz	0.11 % 0.12 %		
	200 V to 1 kV 30 kHz to 50 kHz	0.20 %		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC VOLTAGE (continued)				
Generation	1 mV to 2 mV 10 Hz to 300 kHz 300 kHz to 1 MHz	0.80 % + 23 μV 1.6 % + 45 μV		
	2 mV to 20 mV 10 Hz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	300 μV/V + 4.4 μV 0.80 % + 5.0 μV 1.6 % + 12 μV		
	20 mV to 200 mV 10 Hz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	94 µV/V + 8.0 µV 230 µV/V + 8.0 µV 1.4 % + 13 µV 4.9 % + 83 µV		
	200 mV to 2 V 10 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	70 μV/V + 38 μV 1.2 % + 42 μV 4.8 % + 310 μV		
	2 V to 20 V 10 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	70 μV/V + 380 μV 1.2 % + 380 μV 4.8 % + 3.2 mV		Pride Park
	20 V to 200 V 10 kHz to 100 kHz	93 µV/V + 380 µV		
	200 V to 1 kV 40 Hz to 30 kHz 30 kHz to 100 kHz	110 μV/V + 42 mV 780 μV/V + 63 mV		
AC CURRENT				
Measurement	40 Hz to 1 kHz: 10 μA to 200 μA 200 μA to 200 mA 200 mA to 2 A	370 μA/A + 16 nA 840 μA/A 660 μA/A + 310 μA		
Generation	10 Hz to 1 kHz: 10 μA to 200 μA 200 μA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 10 A	120 µA/A + 9.3 nA 81 µA/A + 100 nA 81 µA/A + 930 nA 81 µA/A + 9.3 µA 240 µA/A + 96 µA 310 µA/A + 1.3 mA		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC CURRENT (continued) Generation	1 kHz to 5 kHz 10 μA to 200 μA 200 μA to 2 mA 2 mA to 200 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 10 A 10 Hz to 3 kHz 10 A to 20 A 3 kHz to 10 kHz 10 A to 20 A 10 Hz to 100 Hz 20 A to 32 A 32 A to 200 A 200 A to 1000 A 100 Hz to 440 Hz 20 A to 32 A 32 A to 200 A 32 A to 200 A	240 μA/A + 12 nA 160 μA/A + 110 nA 160 μA/A + 930 nA 160 μA/A + 9.3 μA 350 μA/A + 120 μA 660 μA/A + 1.5 mA 0.021 % + 6.9 mA 0.40 % + 5.5 mA 0.41 % + 90 mA 0.41 % + 450 mA 0.98 % + 27 mA 0.87 % + 250 mA	For the calibration of current clamps and similar devices, using multi-turn coil.	Pride Park

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
OSCILLOSCOPES				
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		Pri
Amplitude Edge Function	1 kHz to 1 MHz 1.8 mV to 105 V	1.6 % + 170 μV		Pride Park
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		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
FREQUENCY				
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	Pride Park
TEMPERATURE SIMULATI	I ION I			
Temperature indicators and calibration by electrical simu	i simulators (thermocouple type), lation			
Base metal thermocouples	Type J, -210 °C to 0 °C Type J, 0 °C to 1200 °C Type K, -270 °C to -200 °C	0.064 °C 0.018 °C 0.23 °C	excluding cold junction compensation	
	Type K, -200 °C to 0 °C Type K, 0 °C to 1370 °C	0.070 °C 0.022 °C	excluding cold junction compensation	
	Type N, -270 °C to -200 °C Type N, -200 °C to 0 °C Type N, 0 °C to 1300 °C	0.62 °C 0.084 °C 0.027 °C	excluding cold junction compensation	
	Type T, -270 °C to -200 °C Type T, -200 °C to 0 °C Type T, 0 °C to 400 °C	0.19 °C 0.070 °C 0.020 °C	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 calibration by electrical simu	simulators (thermocouple type), lation (continued)			
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 Type J, 0 °C to 1200 °C Type K, -270 °C to -200 °C	0.14 °C 0.13 °C 0.24 °C	including cold junction compensation	
	Type K, -200 °C to 0 °C Type K, 0 °C to 1370 °C	0.15 °C 0.13 °C	including cold junction compensation	
	Type N, -270 °C to -200 °C Type N, -200 °C to 0 °C Type N, 0 °C to 1300 °C	0.53 °C 0.15 °C 0.13 °C	including cold junction compensation	
	Type T, -270 °C to - 200 °C Type T, -200 °C to 0 °C Type T, 0 °C to 400 °C	0.21 °C 0.15 °C 0.13 °C	including cold junction compensation	Prid
Noble metal thermocouples	-50 °C to 0 °C	0.19 °C		Pride Park
	0 °C to 250 °C 250 °C to 1760 °C	0.17 °C 0.089 °C	excluding cold junction compensation	
Cold junction compensation	At ambient temperature of 20 °C ± 2 °C	0.17 °C		
Temperature indicators and calibration by electrical simu	l simulators (thermocouple type), lation			
Noble metal thermocouples	-50 °C to 0 °C	0.24 °C		
	0 °C to 250 °C 250 °C to 1760 °C	0.22 °C 0.18 °C	including cold junction compensation	
PRT simulation (Pt 100)	-200 °C to 0 °C 0 °C to 100 °C 100 °C to 400 °C 400 °C to 630 °C 630 °C to 850 °C	0.017 °C 0.018 °C 0.020 °C 0.023 °C 0.026 °C		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEMPERATURE			Calibration by comparison performed in a stirred liquid bath	
Thermocouples				
Base metal	-40 °C to +200 °C	0.45 °C		
Noble metal	-40 °C to +200 °C	0.92 °C		
Resistance thermometers	-40 °C to +200 °C	0.070 °C		70
Electronic thermometers with sensors; analogue or digital	Ranges as per sensor	As per sensor type		Pride Park
HUMIDITY			By comparison with dew-point hygrometer and Platinum Resistance Thermometers	
Dew point	-10 °C to 0 °C 0 °C to 20 °C	0.12 °C dp 0.10 °C dp		
Relative Humidity	5 %rh to 95 %rh	2.2 %rh	At air temperature 5 °C to 60 °C	
Air Temperature	5 °C to 60 °C	0.4 °C		
PRESSURE			Methods consistent with EURAMET CG17	
Hydraulic pressure (Gauge)				
Pressure indicating instruments and gauges Pneumatic pressure	600 kPa to 120 MPa	0.010 %	Calibration of pressure measuring devices with an electrical output may be undertaken.	
(Gauge)				Ansty
Pressure indicating instruments and gauges	3.70 kPa to 3.5 MPa	0.010 %		ťy
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 13 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	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	0.50 on diameter 0.50 0.80 1.0 on diameter 0.90 1.2 1.8 1.0 + (5.0 x length in m)	By comparison with end standards using a length measuring machine. By comparison with end standards using a length measuring machine	Inchinnan
(parallel) Screw plug gauges (parallel) excluding check and setting plugs	0.5 to 100 100 to 200 1 to 100 diameter	3.0 5.0 2.5 on pitch diameter	Single start symmetrical thread forms only. 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
	RANGE IN MILLIMETRES AND UNLESS OTI	O UNCERTAINTY IN MICRO HERWISE STATED	DMETRES	
MEASURING INSTRUMENT LENGTH			Instrument entries in this section of the schedule also cover digital and dial.	_
External micrometer	Based on BS 870:2008, CCP 2.4.1 issue 14 0 to 300		type gauges which are calibrated based on the quoted standards	
	Heads: (Zero) Setting, 0 to 25:	2.0 between any two points 1.0		
	(Zero) Setting, 25 to 600: Flatness of anvils: Parallelism of anvils: Spindle alignment:	1.0 + (8.0 x length in m) 0.50 0.80 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 Setting and Extension rods: 1.0 + (5.0 x length in m)		Inchinnan
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	0.0		
	0 to 300 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:	10 + (30 x length in m) 3.0		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	
MEASURING INSTRUMENT	TS AND MACHINES			
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 13 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	

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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: (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	Instrument entries in this section of the schedule also cover digital and dial type gauges which are calibrated based on the quoted standards.	
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		Washington
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 13 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	

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
FUEL FLOW			Piston prover method	
Flow rate - volume Flow rate - mass	5 l/hr to 27000 l/hr 4 kg/hr to 21330 kg/hr	0.10 % 0.20 %	Calibration fluid AVTUR (Aviation fuel)	Bristol
TORQUE				ťol
Hand torque tools	CCP 3.6.6 issue 13 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	

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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 200 k Ω 2 M 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	$28 \ \mu\Omega/\Omega + 25 \ \mu\Omega$ $16 \ \mu\Omega/\Omega + 100 \ \mu\Omega$ $13 \ \mu\Omega/\Omega + 1.0 \ m\Omega$ $13 \ \mu\Omega/\Omega + 10 \ m\Omega$ $16 \ \mu\Omega/\Omega + 100 \ m\Omega$ $27 \ \mu\Omega/\Omega + 2.0 \ \Omega$ $75 \ \mu\Omega/\Omega + 100 \ \Omega$ $500 \ \mu\Omega/\Omega + 12 \ k\Omega$ $1.0 \ \% + 1.1 \ M\Omega$		
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 µV/V + 1.2 µV 8.5 µV/V + 0.9 µV 8.5 µV/V + 4.0 µV 13 µV/V + 60 µV 13 µV/V + 600 µV		
DC CURRENT				Solihull
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 μA/A + 0.60 nA 130 μA/A + 6.0 nA 130 μA/A + 60 nA 130 μA/A + 1.3 μA 240 μA/A + 25 μA		ull
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 1 kHz to 10 kHz	360 μV/V + 50 mV 450 μV/V + 50 mV		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC CURRENT				
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 μΑ/Α + 500 μΑ		
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		Solihull
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 1.1 MΩ to 3.3 MΩ 3.3 MΩ to 11 MΩ 11 MΩ to 33 MΩ 31 MΩ to 33 MΩ 31 MΩ to 33 MΩ	180 $\mu\Omega/\Omega$ + 11 $m\Omega$ 150 $\mu\Omega/\Omega$ + 19 $m\Omega$ 110 $\mu\Omega/\Omega$ + 19 $m\Omega$ 110 $\mu\Omega/\Omega$ + 19 $m\Omega$ 110 $\mu\Omega/\Omega$ + 90 $m\Omega$ 110 $\mu\Omega/\Omega$ + 900 $m\Omega$ 110 $\mu\Omega/\Omega$ + 900 $m\Omega$ 110 $\mu\Omega/\Omega$ + 900 $m\Omega$ 140 $\mu\Omega/\Omega$ + 900 Ω 150 $\mu\Omega/\Omega$ + 80 Ω 200 $\mu\Omega/\Omega$ + 80 Ω 710 $\mu\Omega/\Omega$ + 800 Ω 0.14 % + 800 Ω 0.60 % + 8.0 kΩ 0.60 % + 21 kΩ		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
DC VOLTAGE				
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 710 μA/A + 510 μA		
AC VOLTAGE				So
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 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		Solihull
	55 Hz to 1 kHz 220 V to 1 kV	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		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Locatio n Code
MEASURING INSTRUMENTS	S AND MACHINES		Instrument entries in this section of the schedule also cover digital and dial	
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	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 + (8.0 x length in m) 3.0 0.50 4.0 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		Solihull
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	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 sin calibration by electrical simulated			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		Site
	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		υ
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 °C	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	

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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 μV 0.048 % + 5.0 μV	Ambient temperature range 18 °C to 28 °C -10 °C to +50 °C	
	0.15 V to 0.25 V 0.15 V to 0.25 V	0.023 % + 8.4 μV 0.048 % + 8.4 μV	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 μV 0.048 % + 12 μV	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 μA 0.049 % + 1.7 μA	18 °C to 28 °C -10 °C to +50 °C	
	25 mA to 100 mA 25 mA to 100 mA	0.025 % + 2.0 μA 0.049 % + 2.0 μA	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 mΩ 0.048 % + 4.3 mΩ	18 °C to 28 °C -10 °C to +50 °C	Site
	250 Ω to 2650 Ω 250 Ω to 2650 Ω	0.023 % + 11 mΩ 0.048 % + 11 mΩ	18 °C to 28 °C -10 °C to +50 °C	
	2650 Ω to 4000 Ω 2650 Ω to 4000 Ω	0.023 % + 100 mΩ 0.048 % + 100 mΩ	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		

END

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

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