

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0125 Accredited to ISO/IEC 17025:2017	Universal Instrument Services Ltd Issue No: 077 Issue date: 20 October 2025	
	Standards Laboratory 14 Rose Way Blaby Leicester LE8 4BY	Contact: Hazel Horn Tel: +44 (0)116 275 0123 Fax: +44 (0)116 275 0262 E-Mail: sales@uiscal.co.uk Website: www.uiscal.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 Standards Laboratory 14 Rose Way Blaby Leicester LE8 4BY	Local contact Hazel Horn Tel: +44 (0)116-275 0123 Fax: +44 (0)116-275 0262 Email: sales@uiscal.co.uk Website: www.uiscal.com	Dimensional Electrical Pressure Temperature Humidity Torque	Permanent Laboratory

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Calibrations may be performed in an air-conditioned vehicle taken to the customers' sites or in suitable areas within the customers' premises. The customers' 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.	Contact as above	Dimensional Electrical Pressure Temperature	Site Calibration



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks	Location Code
DIMENSIONAL CALIBRATION				Permanent Laboratory
RANGES IN MILLIMETRES AND UNCERTAINTIES IN MICROMETRES UNLESS STATED OTHERWISE				
LENGTH			By comparison with reference standards	
Plain plug gauges (parallel)	0.2 to 10	1.0		
Cylindrical setting standards	10 to 50	1.0		
and rollers	50 to 100	1.5		
	100 to 150	2.0		
	150 to 200	2.0		
Plain ring gauges (parallel)	1.5 to 10	1.0		
	10 to 50	1.0		
	50 to 100	1.5		
	100 to 150	1.7		
	150 to 200	2.5		
Length gauges, flat and spherical ended	0 to 1000 Parallelism	1.0 + (8.0 x length in m) 0.5		
Measuring Instruments				
Micrometers				
External	BS 870:2008 - 0 to 600 Traverse of micrometer screw Flatness of anvils Parallelism of anvils Setting rods	2.0 between any points 0.20 0.25 1.0 + (8.0 x length in m)		
Internal	BS 959:2008 0 to 900	Heads: 2.0 between any points Setting and extension rods: 1.0 + (8.0 x length in m)		
Depth	BS 6468:2008 0 to 300	Heads: 2.0 between any points Setting and extension rods: 1.0 + (8.0 x length in m)		
Micrometer heads	BS 1734:1951 0 to 50 Squareness	1.0 0.5		
Bore micrometers (three points)	3 to 50 diameter 50 to 100 100 to 150	3.0 3.5 5.0	Using setting rings	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
RANGES IN MILLIMETRES AND UNCERTAINTIES IN MICROMETRES UNLESS STATED OTHERWISE				Permanent Laboratory
LENGTH (continued)				
Vernier/digital gauges Caliper,	BS 887:2008 - 0 to 1000 Linear error Flatness Parallelism Squareness Coplanar of jaws	10 + (30 x length in m) 2.5 3.5 5.0 15.0		
Height	As ISO 13225:2012 BS 1643:2008 0 to 1000	15 + (10 x length in m)		
Depth	BS 6365:2008 0 to 600	10 + (30 x length in m)		
Dial gauges and dial test indicators	BS 907:2008 0 to 50 BS 2795:1981 0 to 1	1.0 0.40		
Height setting micrometer	0 to 300	Heads 1.0 Stepped column 1.0 + (5.0 x length in m) Overall performance 3.0		
Riser blocks for above	150 300	2.5 3.0		
Protractors	BS 1685:2008 0° to 360°	2.0 minutes of arc 6.0 minutes of arc	1 minute of arc resolution instruments 5 minute of arc resolution instruments	
Feeler gauges	BS 957:2008 0.02 to 1.00	3.0		
Receiver, position and profile gauges, jigs and fixtures	0 to 500 x 400 x 400 0° to 360°	3.0 + (10 x length in m) μ m 2 minutes of arc See Note 1	Notes 1. Features and associated parts of these gauges / fixtures can be measured to the uncertainties given for equivalent items listed in this schedule.	Site Calibration
Profile projectors	10 to 100 magnifications Angular Linear 0 to 50 Linear 50 to 300	125 at the screen, 5.0 minutes of arc 2.5 6.0		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks	Location Code
TORQUE CALIBRATION				
Wrenches and Screwdrivers	BS EN 6789-2:2017 0.1 N·m to 1000 N·m	1.0 %	The uncertainty quoted is for both the application of the calibration torque and the characteristics of the device being calibrated. Calibrations may also be given in lbf·in and lbf·ft.	Permanent Laboratory
	BS EN 6789:2003 (withdrawn) 0.1 N·m to 1000 N·m	1.6 %		
ELECTRICAL CALIBRATION				
DC RESISTANCE				
Measurement	0 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2 kΩ 2 kΩ to 20 kΩ 20 kΩ to 200 kΩ 200 kΩ to 2 MΩ 2 MΩ to 20 MΩ 20 MΩ to 200 MΩ	25 μΩ/Ω + 20 μΩ 16 μΩ/Ω + 60 μΩ 15 μΩ/Ω + 0.60 mΩ 15 μΩ/Ω + 6.0 mΩ 16 μΩ/Ω + 60 mΩ 27 μΩ/Ω + 1.4 Ω 50 μΩ/Ω + 80 Ω 0.040 % + 9.0 kΩ	Using digital multimeter.	
Generation			Known values of DC resistance for application to resistance measuring instruments, in a two terminal or four terminal configuration, as appropriate.	
Specific Values	100 μΩ 1 mΩ, 10 mΩ and 100 mΩ 1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ	0.030 % 0.010 % 6.0 μΩ/Ω 6.0 μΩ/Ω 6.0 μΩ/Ω 6.0 μΩ/Ω 6.0 μΩ/Ω 6.0 μΩ/Ω 15 μΩ/Ω 15 μΩ/Ω 140 μΩ/Ω		
	100 MΩ 1 GΩ 10 GΩ 100 GΩ 1 TΩ	0.050 % 0.50 % 0.50 % 2.0 % 3.0 %	Applied voltages in the range 100 V to 500 V	
	10 MΩ 100 MΩ 1 GΩ 10 GΩ	0.60 % 0.60 % 0.60 % 0.65 %	Applied voltages up to 5 kV	
DC VOLTAGE				
Voltage Reference Values	1 V 10 V	3.1 μV/V 2.5 μV/V	For calibration of voltage references of suitable stability.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks	Location Code
DC VOLTAGE (continued)				Permanent Laboratory
Measurement	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V 1 kV to 15 kV 15 kV to 40 kV	12 μV/V + 1.0 μV 9.0 μV/V + 1.0 μV 8.0 μV/V + 8.0 μV 13 μV/V + 80 μV 13 μV/V + 0.80 mV 0.30 % + 1.0 V 0.30 % + 10 V	Using digital multimeter. Using high voltage divider. Generation of DC voltages for this range can also be undertaken.	
Generation	0 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V 22 V to 220 V 220 V to 1100 V	12 μV/V + 1.0 μV 10 μV/V + 1.5 μV 10 μV/V + 10 μV 10 μV/V + 120 μV 12 μV/V + 0.80 mV	Known values of DC voltage for application to voltage measuring instruments.	
DC CURRENT				
Measurement	0 mA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 3 A 3 A to 10 A 10 A to 100 A	19 μA/A + 0.16 nA 20 μA/A + 13 nA 20 μA/A + 0.16 μA 60 μA/A + 13 μA 100 μA/A + 16 μA 80 μA/A + 160 μA	Using digital multimeter and current shunts	
Generation	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 2.2 A to 100 A 100 A to 2 kA	70 μA/A + 11 nA 70 μA/A + 12 nA 70 μA/A + 120 nA 100 μA/A + 1.2 μA 180 μA/A + 32 μA 300 μA/A + 21 mA 0.030 % + 100 mA	Known values of DC current for application to current measuring instruments. Using multi-turn coil technique; for the calibration of clamp-on ammeters.	
AC RESISTANCE				
Specific Values	50 Hz 0.2 Ω, 0.5 Ω, 1 Ω, 5 Ω, 47 Ω, 100 Ω and 1 kΩ 1 Ω 100 Hz to 1 kHz 10 kHz 10 Ω 100 Hz to 1 kHz 10 kHz	0.10 % + 0.010 Ω 0.40 % 0.60 % 0.25 % 0.40 %	For the calibration of loop testers Resistance values available for the calibration of resistance measuring devices using four terminal pair connections.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
AC RESISTANCE (continued)				Permanent Laboratory
Specific values (continued)				
	100 Ω 100 Hz to 1 kHz 10 kHz	0.15 % 0.40 %		
	1 k Ω 100 Hz to 1 kHz 10 kHz	0.15 % 0.20 %		
	10 k Ω 100 Hz to 1 kHz 10 kHz	0.15 % 0.20 %		
	100 k Ω 100 Hz to 10 kHz	0.20 %		
	1 M Ω 100 Hz to 10 kHz	0.30 %		
	10 M Ω 100 Hz to 1 kHz	1.3 %		
Other Values	10 m Ω to 1.1 Ω 50 Hz	0.10 % + 0.50 m Ω		
AC VOLTAGE				
Measurement	20 mV to 200 mV 50 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	290 μ V/V + 4.0 μ V 530 μ V/V + 8.0 μ V 930 μ V/V + 20 μ V	Using digital multimeter.	
	200 mV to 2 V 50 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	200 μ V/V + 20 μ V 300 μ V/V + 40 μ V 620 μ V/V + 0.20 mV		
	2 V to 20 V 50 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	190 μ V/V + 0.20 mV 300 μ V/V + 0.40 mV 620 μ V/V + 2.0 mV		
	20 V to 200 V 50 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	200 μ V/V + 2.0 mV 310 μ V/V + 4.0 mV 650 μ V/V + 20 mV		
	200 V to 300 V 50 Hz to 10 kHz	200 μ V/V + 20 mV		



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AC VOLTAGE (continued)				Permanent Laboratory
Measurement (continued)	50 Hz to 10 kHz 300 V to 1000 V 500 V 1000 V	0.15% + 20 mV 250 μ V/V 500 μ V/V		
	At 50 Hz: 1 kV to 5 kV 5 kV to 28 kV	1.3 % + 10 V 1.3 % + 40 V	Using high voltage divider. Generation of AC voltages over these ranges can also be undertaken.	
Generation	100 mV to 2.2 V 40 Hz to 20 kHz 20 kHz to 500 kHz	110 μ V/V + 9.0 μ V 0.14 % + 410 μ V	Known values of AC voltage for application to voltage measuring instruments.	
	2.2 V to 22 V 40 Hz to 20 kHz 20 kHz to 500 kHz	110 μ V/V + 82 μ V 0.20 % + 6.0 mV		
	22 V to 220 V 40 Hz to 20 kHz 20 kHz to 50 kHz	120 μ V/V + 2.0 mV 0.030 % + 5.0 mV		
	220 V to 1000 V 50 Hz to 1 kHz	120 μ V/V + 5.0 mV		
AC CURRENT				
Measurement	20 μ A to 1 mA 50 Hz to 1 kHz	0.040 % + 33 nA	Using digital multimeter and current shunts.	
	1 mA to 10 mA 50 Hz to 1 kHz	0.040 % + 0.33 μ A		
	10 mA to 100 mA 50 Hz to 1 kHz	0.030 % + 3.3 μ A		
	100 mA to 3 A 50 Hz to 1 kHz	0.030 % + 330 μ A		
	3 A to 10 A 50 Hz to 1 kHz	0.030 % + 330 μ A		
	10 A to 100 A 50 Hz to 400 Hz	0.030 % + 3.3 mA		



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AC CURRENT (continued)				Permanent Laboratory
Generation	100 μ A to 220 μ A <i>50 Hz to 1 kHz</i>	250 μ A/A + 20 nA	Known values of AC current for application to current measuring instruments.	
	220 μ A to 2.2 mA <i>50 Hz to 1 kHz</i>	270 μ A/A + 40 nA		
	2.2 mA to 22 mA <i>50 Hz to 1 kHz</i>	200 μ A/A + 410 nA		
	22 mA to 220 mA <i>50 Hz to 1 kHz</i>	400 μ A/A + 4.0 μ A		
	220 mA to 2.2 A <i>50 Hz to 1 kHz</i> <i>1 kHz to 5 kHz</i> <i>5 kHz to 10 kHz</i>	0.080 % + 40 μ A 0.090 % + 100 μ A 1.1 % + 200 μ A		
	2.2 A to 100 A <i>50 Hz to 400 Hz</i>	0.050 %	Using multi turn coil technique; for the calibration of clamp-on ammeters and Rogowski coils.	
	100 A to 1 kA <i>50 Hz</i>	0.20 % + 120 mA		
AC POWER	1 W to 100 kW <i>50 Hz to 400 Hz</i>	0.15 %	Using phantom load technique. The capabilities are for unity power factor only. Voltages will be in the range 10 V to 1000 V and currents will be in the range 100 mA to 1000 A. The applied frequency is limited to 50 Hz at currents above 100 A.	
	100 kW to 1 MW <i>50 Hz</i>	0.25 %		
CAPACITANCE				
Generation	<i>At 1 kHz</i> 100 pF 1 nF 10 nF 100 nF 1 μ F	0.15 % 0.030 % 0.030 % 0.030 % 0.030 %	Known values of capacitance for application to capacitance measuring instruments.	
Measurement	<i>At 1 kHz, 1 V</i> 10 pF to 1 μ F	0.68 % + 3 digits		
			Using capacitance meter with a 3½ digit display	



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INDUCTANCE	At 1 kHz 10 μ H 100 μ H 1 mH 10 mH 100 mH 1 H	0.60 % 0.10 % 0.10 % 0.10 % 0.10 % 0.10 %	For the calibration of inductance measuring devices	Permanent Laboratory
FREQUENCY				
Measurement	0.1 Hz to 2 GHz	2.0 in 10^6	Using counter timer. The periodic time of repetitive waveforms may be expressed in terms of 1/f or as events per unit time such as RPM.	
Generation	0.01 Hz to 2.4 GHz	2.0 in 10^9	Using frequency synthesiser.	
TIME INTERVAL				
Single events	5 ms to 50 ms 50 ms to 2.2 s	0.20 ms 2.5 ms	For the calibration of RCD testers	
Stopwatches (Mechanical)	5 s to 3 hours 3 hours to 30 hours	0.25 s 0.50 s	By comparison with calibrated counter timer.	
Temperature indicators, calibration by electrical simulation				
Base metal thermocouples	-200 °C to +1600 °C	0.20 °C	including cold junction compensation	
Noble metal thermocouples	-50 °C to +1760 °C	0.25 °C	including cold junction compensation	
Resistance thermometers (Pt 100)	-200 °C to +800 °C	0.030 °C		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
DC RESISTANCE				Site Calibration
Measurement	0 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 100 M Ω 100 M Ω to 300 M Ω	120 $\mu\Omega/\Omega + 4.6$ m Ω 120 $\mu\Omega/\Omega + 15$ m Ω 120 $\mu\Omega/\Omega + 150$ m Ω 120 $\mu\Omega/\Omega + 1.5$ Ω 120 $\mu\Omega/\Omega + 15$ Ω 450 $\mu\Omega/\Omega + 500$ Ω 950 $\mu\Omega/\Omega + 60$ k Ω 2.1 % + 0.10 M Ω	Using digital multimeter.	
Generation				
Specific values	10 M Ω 100 M Ω 1 G Ω 10 G Ω	0.60 % 0.60 % 0.60 % 1.0 %	Applied voltages up to 5 kV	
Other values	0 Ω to 11 Ω 11 Ω to 33 Ω 33 Ω to 330 Ω 330 Ω to 3.3 k Ω 3.3 k Ω to 33 k Ω 33 k Ω to 330 k Ω 330 k 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	150 $\mu\Omega/\Omega + 6.2$ m Ω 160 $\mu\Omega/\Omega + 12$ m Ω 120 $\mu\Omega/\Omega + 12$ m Ω 120 $\mu\Omega/\Omega + 72$ m Ω 120 $\mu\Omega/\Omega + 0.72$ Ω 150 $\mu\Omega/\Omega + 7.2$ Ω 180 $\mu\Omega/\Omega + 67$ Ω 650 $\mu\Omega/\Omega + 670$ Ω 0.13% + 10 k Ω 0.55% + 11 k Ω	Known values of DC resistance for application to resistance measuring instruments.	
DC VOLTAGE				
Measurement	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	60 $\mu V/V + 5.0$ μV 50 $\mu V/V + 10$ μV 50 $\mu V/V + 70$ μV 60 $\mu V/V + 0.80$ mV 60 $\mu V/V + 13$ mV	Using digital multimeter.	



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DC VOLTAGE (continued)				Site Calibration
Generation	0 mV to 330 mV 330 mV to 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 1020 V	70 $\mu\text{V/V} + 4.0 \mu\text{V}$ 60 $\mu\text{V/V} + 6.0 \mu\text{V}$ 60 $\mu\text{V/V} + 60 \mu\text{V}$ 65 $\mu\text{V/V} + 0.60 \text{ mV}$ 65 $\mu\text{V/V} + 2.0 \text{ mV}$	Known values of DC voltage for application to voltage measuring instruments.	
DC CURRENT				
Measurement	0 mA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 3 A 3 A to 10 A 10 A to 100 A	0.015 % + 12 nA 0.010 % + 20 nA 0.010 % + 1.6 μA 0.010 % + 110 μA 0.012 % + 160 μA 0.012 % + 1.6 mA	Using digital multimeter.	
Generation	0 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 2.2 A 2.2 A to 11 A 11 A to 100 A 100 A to 1 kA	160 $\mu\text{A/A} + 0.060 \mu\text{A}$ 130 $\mu\text{A/A} + 0.31 \mu\text{A}$ 130 $\mu\text{A/A} + 4.0 \mu\text{A}$ 400 $\mu\text{A/A} + 45 \mu\text{A}$ 710 $\mu\text{A/A} + 340 \mu\text{A}$ 300 $\mu\text{A/A} + 21 \text{ mA}$ 0.030 % + 21 mA	Known values of DC current for application to current measuring instruments. Using multi-turn coil technique; for the calibration of clamp-on ammeters.	
AC RESISTANCE	0.2 Ω to 1 k Ω 50 Hz	0.10 % + 0.50 m Ω	For the calibration of loop testers	
AC VOLTAGE				
Measurement	10 mV to 100 mV 45 Hz to 20 kHz 20 kHz to 50 kHz 100 mV to 1 V 45 Hz to 20 kHz 20 kHz to 50 kHz 1 V to 10 V 45 Hz to 20 kHz 20 kHz to 50 kHz 10 V to 100 V 45 Hz to 20 kHz 20 kHz to 50 kHz 200 V to 750 V 45 Hz to 1 kHz	0.080 % + 50 μV 0.30 % + 450 μV 0.080 % + 60 μV 0.25 % + 100 μV 0.080 % + 4.0 mV 0.14 % + 6.0 mV 0.080 % + 35 mV 0.25 % + 210 mV 0.080 % + 250 mV	Using digital multimeter.	



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AC VOLTAGE (continued)				Site Calibration
Generation	3 mV to 33 mV 50 Hz to 10 kHz	0.18 % + 24 μV	Known values of AC voltage for application to voltage measuring instruments.	
	33 mV to 330 mV 50 Hz to 10 kHz	0.065 % + 24 μV		
	330 mV to 3.3 V 50 Hz to 10 kHz 10 kHz to 50 kHz	0.045 % + 80 μV 0.18 % + 0.40 mV		
	3.3 V to 33 V 50 Hz to 10 kHz 10 kHz to 50 kHz	0.055 % + 0.80 mV 0.23 % + 7.0 mV		
	33 V to 330 V 50 Hz to 1 kHz 1 kHz to 10 kHz	0.065 % + 9.0 mV 0.10 % + 18 mV		
	330 V to 1020 V 50 Hz to 1 kHz	0.065 % + 90 mV		
AC CURRENT				
Measurement	50 Hz to 100 Hz 3 mA to 30 mA 30 mA to 100 mA 100 mA to 1 A 1 A to 3 A	0.60 % + 12 μA 0.60 % + 120 μA 0.19 % + 0.46 mA 0.24 % + 0.66 mA	Using digital multimeter.	
	100 mA to 2 A 50 Hz to 100 Hz 100 Hz to 1 kHz	0.60 % + 1.0 mA 0.50 % + 1.0 mA		
	2 A to 10 A 50 Hz to 60 Hz	1.1 % + 12 mA		
	10 A to 100 A 50 Hz to 60 Hz	0.13 % + 40 mA	Known values of AC current for application to current measuring instruments.	
	0.3 mA to 3.3 mA 50 Hz to 1 kHz	0.14 % + 0.32 μA		
	3.3 mA to 33 mA 50 Hz to 1 kHz	0.13 % + 3.2 μA		
33 mA to 330 mA 50 Hz to 1 kHz	0.13 % + 32 μA			
330 mA to 2.2 A 50 Hz to 1 kHz	0.14 % + 320 μA			



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AC CURRENT (continued)				Site Calibration
Generation (continued)	2.2 A to 11 A 50 Hz to 400 Hz	0.14 % + 2.1 mA		
	11 A to 100 A 50 Hz to 400 Hz	0.30 %		
	100 A to 1 kA 50 Hz	0.20 % + 120 mA	Using multi turn coil technique; for the calibration of clamp-on ammeters and Rogowski coils.	
FREQUENCY				
Measurement and generation	0.1 Hz to 160 MHz	2 in 10^6	Using counter timer. The periodic time of repetitive waveforms may be expressed in terms of $1/f$ or as events per unit time such as RPM.	
Generation	0.02 Hz to 2.1 GHz	2 in 10^9	Using Signal Generator	
TIME INTERVAL				
Single events	5 ms to 50 ms 50 ms to 2.2 s	0.20 ms 2.5 ms	For the calibration of RCD testers	
Stopwatches (Mechanical)	0 s to 3 hours 3 hours to 30 hours	0.25 s 0.50 s	By comparison with calibrated counter timer.	
Temperature indicators, calibration by electrical simulation				
Base metal thermocouples	-200 °C to +1600 °C	0.57 °C	Including cold junction compensation	
Noble metal thermocouples	-50 °C to +1760 °C	1.4 °C	Including cold junction compensation	
Resistance thermometers (Pt 100)	-200 °C to 800 °C	0.15 °C		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
PRESSURE CALIBRATION Gas pressure (gauge) Calibration of pressure indicating instruments and gauges. Gas pressure (absolute) Calibration of pressure indication instruments and gauges. Hydraulic pressure (gauge) Calibration of pressure indicating instruments and gauges. Hydraulic Pressure (absolute) Calibration of pressure indicating instruments and gauges. Gas pressure (gauge) Calibration of pressure indicating instruments and gauges. Hydraulic pressure (gauge) Calibration of pressure indicating instruments and gauges.	-100 kPa to -7 kPa -7 kPa to -2.5 kPa -2.5 kPa to 2.5 kPa 2.5 kPa to 7 kPa 7 kPa to 70 kPa 70 kPa to 700 kPa 700 kPa to 4.3 MPa 4.3 MPa to 6 MPa 6 MPa to 10 MPa	58 Pa/MPa + 17 Pa 68 Pa/MPa + 5.1 Pa 0.010 % + 2.0 Pa 68 Pa/MPa + 5.1 Pa 58 Pa/MPa + 13 Pa 66 Pa/MPa 0.010 % + 33 Pa 0.18 % + 4.2 kPa 0.12 % + 4.0 kPa	Methods consistent with EURAMET CG17. Calibrations of devices with an electrical output may be undertaken	Permanent Laboratory
	30 Pa to 75 kPa 75 kPa to 120 kPa 120 kPa to 170 kPa 170 kPa to 800 kPa 800 kPa to 4.3 MPa	58 Pa/MPa + 17 Pa 10 Pa 58 Pa/MPa + 17 Pa 66 Pa/MPa + 10 Pa 0.010 % + 35 Pa		
	0 kPa to 54 kPa 54 kPa to 60 kPa 60 kPa to 600 kPa 600 kPa to 6 MPa 6 MPa to 120 MPa	0.030 % + 110 Pa 0.032 % + 220 Pa 0.0066 % + 29 Pa 0.010 % 0.010 %		
	170 kPa to 800 kPa 800 kPa to 6.1 MPa 6.1 MPa to 120 MPa	0.0066 % + 32 Pa 0.010 % + 12 Pa 0.010 % + 12 Pa		
	-100 kPa to -2.5 kPa -2.5 kPa to 2.5 kPa 2.5 kPa to 200 kPa 200 kPa to 2 MPa	0.005 8 % + 0.22 kPa 0.010 % + 2.0 Pa 96 Pa 0.010% + 0.80 kPa	Absolute pressures within these ranges can also be generated, subject to an additional uncertainty of 90 Pa.	Site Calibration
	2 MPa to 7 MPa	0.010% + 7.0 kPa		
	0 MPa to 20 MPa 20 MPa to 70 MPa	0.010% + 5.8 kPa 0.050 % + 22 kPa		



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issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Universal Instrument Services Ltd
Issue No: 077 Issue date: 20 October 2025

Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TEMPERATURE CALIBRATION				
Liquid-in-glass thermometers	Ice-point (0 °C) -80 °C to +5 °C 5 °C to 50 °C 50 °C to 250 °C	0.013 °C 0.020 °C 0.016 °C 0.025 °C	By comparison with reference standards Calibration performed within liquid baths	Permanent Laboratory
Resistance thermometers	Nitrogen boiling point (-196 °C) Ice point (0 °C) Triple point of water (0.01 °C) -80 °C to 5 °C 5 °C to 50 °C 50 °C to 250 °C 250 °C to 660 °C	0.013 °C 0.012 °C 0.005 °C 0.010 °C 0.015 °C 0.014 °C 0.095 °C	-196 °C & 0 °C FP by comparison with reference standards Calibration within liquid baths up to 650 °C and above 650 °C in a furnace	
Platinum thermocouples	-50 °C to 0 °C 0 °C to 80 °C 80 °C to 250 °C 250 °C to 650 °C 650 °C to 1100 °C	1.3 °C 0.67 °C 0.52 °C 0.54 °C 1.6 °C	By comparison with reference standards Calibration within liquid baths up to 650 °C and above 650 °C in a furnace	
Base metal thermocouples	Nitrogen boiling point (-196 °C) -80 °C to 0 °C 0 °C to 250 °C 250 °C to 650 °C 650 °C to 1100 °C	0.23 °C 0.18 °C 0.17 °C 0.19 °C 1.6 °C	-196 °C & 0 °C FP by comparison with reference standards Calibration within liquid baths up to 650 °C and above 650 °C in a furnace	
Electronic Thermometers with probes	Nitrogen boiling point (-196 °C) -80 °C to +250 °C Ice point (0 °C) Triple point of water (0.01 °C) 250 °C to 650 °C 650 °C to 1100 °C	0.014 °C 0.013 °C 0.014 °C 0.007 0 °C 0.12 °C 1.7 °C	-196 °C & 0 °C FP by comparison with reference standards Calibration within liquid baths up to 650 °C and above 650 °C in a furnace	
Calibration of Temperature Data loggers, Electronic Temperature Indicators and Recorders in Air	-40 °C to +80 °C	0.47 °C	Calibration within air chamber	
Block calibrators	-50 °C to +660 °C	0.12 °C	By comparison with reference standards	
Cold Junction Compensation	Ice-point (0 °C) 15 °C to 25 °C	0.13 °C 0.17 °C	In stirred liquid bath	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
HUMIDITY CALIBRATION	In the temperature range 0 °C to 20 °C 5 %rh to 50 %rh 50 %rh to 90 %rh In the temperature range 20 °C to 40 °C 5 %rh to 95 %rh In the temperature range 40 °C to 60 °C 5 %rh to 90 %rh	2.0 %rh 2.5 %rh 2.5 %rh 2.5 %rh	By comparison with reference in controlled chamber Calibrations of devices with an electrical output may be undertaken	Permanent Laboratory
Temperature in air	0 °C to 60 °C	0.20 °C		
TEMPERATURE CALIBRATION				Site Calibration
Temperature sensors with indicators	-20 °C to 120 °C	0.089 °C	By comparison with reference standards In stirred liquid baths	
	-25 °C to +140 °C 140 °C to 350 °C	0.061 °C 0.15 °C	By comparison with reference standards within metal block baths	
Liquid baths	Ice-point (0 °C)	0.041 °C	Calibration performed within liquid baths	
Temperature measurement	-40 °C to 250 °C	0.044 °C	By comparison with reference standards	
Gradient measurement	-40 °C to 250 °C	0.020 °C		
Temperature controlled chambers, ovens, fridges/refrigerators and freezers	-80 °C to +300 °C 300 °C to 1100 °C	0.84 °C 3.7 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	
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: $Q[a, b] = [a^2 + b^2]^{1/2}$