


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION</p> <p>0078</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Absolute Calibration Limited</h3> <p>Issue No: 059 Issue date: 26 March 2026</p>	
	<p>14 Murrills Estate Portchester Hampshire PO16 9RD</p>	<p>Contact: Mr Darren Kingswell Tel: +44 (0)2392 321712 Fax: +44 (0)2392 210034 E-Mail: calit@absolute-cal.co.uk Website: www.absolute-cal.co.uk</p>
<p>Calibration performed by the Organisations at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory location:

Location details	Activity	Location code
<p>Address 14 Murrills Estate Portchester Hampshire PO16 9RD</p> <p>Contact Mr Darren Kingswell Tel: +44 (0) 2392 321712 Fax: +44 (0) 2392 210034 Email: calit@absolute-cal.co.uk Website: www.absolute-cal.co.uk</p>	<p><u>Calibration:</u></p> <p>Electrical Humidity Pressure Temperature Spring Hammers</p>	<p>Portchester</p>

Site activities performed away from the location listed above:

Location details	Activity	Location code
<p>Customers' sites or premises</p> <p>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.</p>	<p><u>Calibration:</u></p> <p>Electrical Humidity Pressure Temperature</p>	<p>Site Calibration</p>



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CALIBRATION AND MEASUREMENT CAPABILITY (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<u>ELECTRICAL CALIBRATION</u>				
DC RESISTANCE Measurement, <i>Specific Values</i>	100 $\mu\Omega$	4.0 $\mu\Omega/\Omega$	Using direct current comparator bridge. The CMCs are for 4-terminal resistors suitable for oil immersion at 20 °C or between 17 °C to 23 °C. The uncertainties may be increased for other types of resistor.	Portchester
	1 m Ω	0.30 $\mu\Omega/\Omega$		
	10 m Ω	0.30 $\mu\Omega/\Omega$		
	100 m Ω	0.36 $\mu\Omega/\Omega$		
	1 Ω	0.093 $\mu\Omega/\Omega$		
	10 Ω	0.093 $\mu\Omega/\Omega$		
	100 Ω	0.093 $\mu\Omega/\Omega$		
	1 k Ω	0.092 $\mu\Omega/\Omega$		
	10 k Ω	0.11 $\mu\Omega/\Omega$		
	100 k Ω	0.22 $\mu\Omega/\Omega$		
	1 M Ω	0.61 $\mu\Omega/\Omega$		
	10 M Ω	1.8 $\mu\Omega/\Omega$		
	100 M Ω	4.5 $\mu\Omega/\Omega$		
	1 G Ω	5.3 $\mu\Omega/\Omega$		
Measurement, <i>Other values</i>	80 m Ω to 800 m Ω	0.36 $\mu\Omega/\Omega$	See note above	Portchester
	0.80 Ω to 107.5 Ω	0.093 $\mu\Omega/\Omega$		
	107.5 Ω to 1.34 k Ω	0.092 $\mu\Omega/\Omega$		
	1.34k Ω to 10.75 k Ω	0.11 $\mu\Omega/\Omega$		
	10.75 k Ω to 12 k Ω	0.17 $\mu\Omega/\Omega$		
	12 k Ω to 63 k Ω	0.17 $\mu\Omega/\Omega$		
	63 k Ω to 134 k Ω	0.22 $\mu\Omega/\Omega$		
	134 k Ω to 1.075 M Ω	0.61 $\mu\Omega/\Omega$		
	1.075 M Ω to 13.4 M Ω	1.9 $\mu\Omega/\Omega$		
	13.4 M Ω to 630 M Ω	4.5 $\mu\Omega/\Omega$		
	630 M Ω to 1.075 G Ω	5.3 $\mu\Omega/\Omega$		
	1.075 G Ω to 2 G Ω	0.025%		
2 G Ω to 20 G Ω	0.062%			
20 G Ω to 200 G Ω	0.10 %			
200 G Ω to 2 T Ω	0.12 %			



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
DC RESISTANCE (continued) Generation, <i>Specific values</i>			Known values of resistance for application to DC resistance measuring devices.	Porchester
	100 M Ω , 300 M Ω , 1 G Ω	0.30 %	Applied Voltage 10 V	
	3 G Ω	0.45 %		
	10 G Ω	0.35 %		
	30 G Ω , 100 G Ω , 300 G Ω	0.35 %	Applied Voltage 100 V	
	1 T Ω	0.70 %		
	3 T Ω	0.75 %		
	100 M Ω , 300 M Ω , 1.0 G Ω	0.30 %	Applied Voltage 500 V	
	3 G Ω	0.45 %		
	10 G Ω , 30 G Ω , 100 G Ω , 300 G Ω	0.35 %		
	1 T Ω	0.70 %	Applied Voltage 500 V	
	3 T Ω	0.75 %	Applied Voltage 1000 V	
AC RESISTANCE Generation	40 Hz to 1592 Hz		Known AC resistance values for application to resistance measuring instruments. Measurement of suitable resistors of the same nominal values may also be undertaken but the uncertainties may be increased.	
	0.1 Ω	0.030 %		
	1 Ω	10 $\mu\Omega/\Omega$		
	10 Ω	6.0 $\mu\Omega/\Omega$		
	100 Ω	8.0 $\mu\Omega/\Omega$		
	1 k Ω	7.0 $\mu\Omega/\Omega$		
	10 k Ω	6.0 $\mu\Omega/\Omega$		
DC VOLTAGE Specific Values			By comparison with DC voltage reference standards using voltage dividers.	
	0.1 V	0.70 $\mu\text{V}/\text{V}$		
	1 V	0.53 $\mu\text{V}/\text{V}$		
	10 V	0.49 $\mu\text{V}/\text{V}$		
	100 V	0.53 $\mu\text{V}/\text{V}$		
	1 kV	0.78 $\mu\text{V}/\text{V}$		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
DC VOLTAGE (continued)				Portchester
Other Values	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100V to 1 kV 1 kV to 10 kV 10 kV to 30 kV 30 kV to 50 kV	0.6 μ V 0.81 μ V 0.57 μ V/V 0.61 μ V/V 2.5 μ V/V 0.034 % + 0.41 V 0.038 % + 1.0 V 0.038 % + 10 V	By comparison with DC voltage reference standards using voltage dividers where appropriate.	
DC CURRENT	1 pA to 10 pA 10 pA to 100 pA 100 pA to 100 nA 100 nA to 1 μ A 1 μ A to 10 μ A 10 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 100 A 100 A to 1000 A	2.60 % 1.20 % 0.26 % 0.13 % 24 μ A/A + 0.12 nA 11 μ A/A + 0.50 nA 11 μ A/A + 5.0 nA 12 μ A/A + 50 nA 24 μ A/A + 0.58 μ A 30 μ A/A 40 μ A/A 50 μ A/A 0.50 % to 0.70 %	For measurement of current sources or for application to current measuring instruments. For calibration of current clamps and similar devices using multi-turn coil method.	
Specific values	100 μ A 1 mA 10 mA 100 mA	5.9 μ A/A 5.7 μ A/A 5.7 μ A/A 5.7 μ A/A	Generation of known direct currents for calibration of Wavetek 4950 Multifunction Transfer Standards	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC VOLTAGE Generation	<p><i>10 Hz to 31 Hz</i></p> <p>1 V to 10 V 10 V to 100 V 100 V to 1000 V</p> <p><i>31 Hz to 330 Hz</i></p> <p>0 mV to 1 mV 1 mV to 10 mV 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V</p> <p><i>330 Hz to 10 kHz</i></p> <p>0 mV to 1 mV 1 mV to 10 mV 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V</p> <p><i>10 kHz to 33 kHz</i></p> <p>0 mV to 1 mV 1 mV to 10 mV 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V</p> <p><i>30 kHz to 100 kHz</i></p> <p>0 mV to 1 mV 1 mV to 10 mV 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 700 V</p>	<p>0.011 % + 0.35 mV 0.012 % + 6.0 mV 0.017 % + 20 mV</p> <p>0.23 % + 6.0 μV 0.035 % + 6.5 μV 0.014 % + 15 μV 0.0065 % + 35 μV 0.0063 % + 350 μV 0.0075 % + 2.3 mV 0.017 % + 25 mV</p> <p>0.23 % + 6.0 μV 0.035 % + 6.2 μV 0.015 % + 15 μV 0.0055 % + 35 μV 0.0053 % + 350 μV 0.0065 % + 1.3 mV 0.012 % + 25 mV</p> <p>0.25 % + 6.0 μV 0.050 % + 6.5 μV 0.025 % + 15 μV 0.0055 % + 35 μV 0.0053 % + 350 μV 0.0065 % + 1.3 mV 0.012 % + 25 mV</p> <p>0.26 % + 6.0 μV 0.070 % + 6.5 μV 0.052 % + 15 μV 0.011 % + 35 μV 0.011 % + 350 μV 0.016 % + 3.5 mV 0.012 % + 50 mV</p>	Derived by means of AC/DC transfer techniques.	Porchester



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC VOLTAGE (continued) Generation (continued)	100 kHz to 330 kHz			Portchester
	0 mV to 1 mV	0.30 % + 6.0 μV		
	1 mV to 10 mV	0.080 % + 7.0 μV		
	10 mV to 100 mV	0.065 % + 200 μV		
	100 mV to 1 V	0.035 % + 35 μV		
	1 V to 10 V	0.031 % + 350 μV		
	300 kHz to 1 MHz			
	1 V to 10 V	0.18 % + 5.0 mV		
Measurement	220 μV to 2.2 mV		Derived by means of AC/DC transfer techniques.	
	10 Hz to 20 Hz	620 μV/V + 1.6 μV		
	20 Hz to 40 Hz	620 μV/V + 1.6 μV		
	40 Hz to 20 kHz	610 μV/V + 1.6 μV		
	20 kHz to 50 kHz	620 μV/V + 2.4 μV		
	50 kHz to 100 kHz	630 μV/V + 3.0 μV		
	100 kHz to 300 kHz	760 μV/V + 4.9 μV		
	300 kHz to 500 kHz	0.15 % + 9.9 μV		
	500 kHz to 1 MHz	0.51 % + 11 μV		
	2.2 mV to 7 mV			
	10 Hz to 20 Hz	260 μV/V + 1.6 μV		
	20 Hz to 40 Hz	210 μV/V + 1.6 μV		
	40 Hz to 20 kHz	190 μV/V + 1.6 μV		
	20 kHz to 50 kHz	190 μV/V + 2.4 μV		
	50 kHz to 100 kHz	210 μV/V + 3.0 μV		
	100 kHz to 300 kHz	360 μV/V + 4.9 μV		
	300 kHz to 500 kHz	890 μV/V + 9.9 μV		
	500 kHz to 1 MHz	0.39 % + 11 μV		
	7 mV to 22 mV			
	10 Hz to 20 Hz	120 μV/V + 1.6 μV		
	20 Hz to 40 Hz	95 μV/V + 1.6 μV		
	40 Hz to 20 kHz	93 μV/V + 1.6 μV		
	20 kHz to 50 kHz	100 μV/V + 2.4 μV		
	50 kHz to 100 kHz	110 μV/V + 3.0 μV		
	100 kHz to 300 kHz	200 μV/V + 4.9 μV		
	300 kHz to 500 kHz	710 μV/V + 9.9 μV		
	500 kHz to 1 MHz	0.29 % + 11 μV		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC VOLTAGE (continued) Measurement (continued)	22 mV to 70 mV 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 500 kHz 500 kHz to 1 MHz 70 mV to 220 mV 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 500 kHz 500 kHz to 1 MHz 200 mV to 700 mV 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 500 kHz 500 kHz to 1 MHz 700 mV to 2.2 V 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 500 kHz 500 kHz to 1 MHz	88 µV/V + 1.7 µV 57 µV/V + 1.7 µV 40 µV/V + 1.7 µV 64 µV/V + 2.3 µV 84 µV/V + 2.9 µV 200 µV/V + 4.6 µV 380 µV/V + 9.2 µV 0.14 % + 9.2 µV 77 µV/V + 1.7 µV 46 µV/V + 1.7 µV 40 µV/V + 1.7 µV 42 µV/V + 2.3 µV 73 µV/V + 2.9 µV 200 µV/V + 4.6 µV 360 µV/V + 9.2 µV 0.14 % + 9.2 µV 75 µV/V + 1.7 µV 44 µV/V + 1.7 µV 40 µV/V + 1.7 µV 40 µV/V + 2.3 µV 71 µV/V + 2.9 µV 200 µV/V + 4.6 µV 360 µV/V + 9.2 µV 0.14 % + 9.2 µV 74 µV/V 43 µV/V 34 µV/V 41 µV/V 68 µV/V 190 µV/V 330 µV/V 0.14 %		Portchester



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC VOLTAGE (continued) Measurement (continued)	2 V to 7 V			Portchester
	10 Hz to 20 Hz	74 µV/V		
	20 Hz to 40 Hz	44 µV/V		
	40 Hz to 20 kHz	33 µV/V		
	20 kHz to 50 kHz	42 µV/V		
	50 kHz to 100 kHz	86 µV/V		
	100 kHz to 300 kHz	210 µV/V		
	300 kHz to 500 kHz	530 µV/V		
	500 kHz to 1 MHz	0.17 %		
	7 V to 22 V			
	10 Hz to 20 Hz	74 µV/V		
	20 Hz to 40 Hz	45 µV/V		
	40 Hz to 20 kHz	33 µV/V		
	20 kHz to 50 kHz	42 µV/V		
	50 kHz to 100 kHz	81 µV/V		
	100 kHz to 300 kHz	210 µV/V		
	300 kHz to 500 kHz	530 µV/V		
	500 kHz to 1 MHz	0.17 %		
	20 V to 70 V			
	10 Hz to 20 Hz	74 µV/V		
	20 Hz to 40 Hz	47 µV/V		
	40 Hz to 20 kHz	41 µV/V		
	20 kHz to 50 kHz	47 µV/V		
	50 kHz to 100 kHz	100 µV/V		
	100 kHz to 300 kHz	210 µV/V		
	300 kHz to 500 kHz	570 µV/V		
	500 kHz to 1 MHz	0.17 %		
	70 V to 220 V			
	10 Hz to 20 Hz	75 µV/V		
	20 Hz to 40 Hz	48 µV/V		
	40 Hz to 20 kHz	41 µV/V		
	20 kHz to 50 kHz	58 µV/V		
	50 kHz to 100 kHz	100 µV/V		
	100 kHz to 300 kHz	340 µV/V		
	300 kHz to 500 kHz	0.10 %		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code				
AC VOLTAGE (continued) Measurement (continued)	200 V to 700 V 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 700 V to 1000 V 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	79 μ V/V 50 μ V/V 39 μ V/V 160 μ V/V 980 μ V/V 78 μ V/V 50 μ V/V 39 μ V/V 160 μ V/V 980 μ V/V		Portchester				
Specific values (measurement)	1 kV to 8 kV 50 Hz	0.50 %	Using voltage divider.					
CMCs for specific values of voltage at the frequencies shown, expressed in μ V/V ($k = 2$)								
Voltage	10 Hz	20 Hz	40 Hz, 500 Hz, 1 kHz, 10 kHz and 20 kHz	50 kHz	100 kHz	200 kHz	500 kHz	1 MHz
60 mV	150	85	76	76	78	160	180	680
100 mV	120	63	41	38	50	140	140	690
200 mV	120	63	41	38	50	140	140	690
600 mV	120	52	29	30	42	140	160	690
1 V	120	43	16	27	33	120	170	800
2 V	120	43	16	27	33	120	170	800
6 V	120	44	18	25	35	83	200	780
10 V	120	44	21	26	33	83	200	780
20 V	120	44	21	26	33	83	200	780
60 V	120	46	37	36	69	110	300	790
100 V	130	46	37	42	65	120	470	
200 V	130	46	37	42	65	120	470	
600 V	130	78	37	88	820			
1000 V	130	78	48	91	820			



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC CURRENT				Portchester
Generation	10 Hz to 1 kHz		Known values of AC current for application to current measuring instruments.	
	10 µA to 100 µA	0.030 % + 15 nA		
	100 µA to 1 mA	0.025 % + 120 nA		
	1 mA to 10 mA	0.020 % + 1.2 µA		
	10 mA to 100 mA	0.015 % + 12 µA		
	100 mA to 1 A	0.040 % + 120 µA		
	1 A to 10 A	0.060 % + 1.5 mA		
	1 kHz to 5 kHz		For calibration of current clamps and similar devices using multi-turn coil method.	
	10 µA to 100 µA	0.040 % + 30 nA		
	100 µA to 1 mA	0.025 % + 120 nA		
	1 mA to 10 mA	0.025 % + 1.2 µA		
	10 mA to 100 mA	0.025 % + 12 µA		
	100 mA to 1 A	0.055 % + 160 µA		
	1 A to 10 A	0.11 % + 1.9 mA		
	5 kHz to 10 kHz			
	1 A to 10 A	0.26 % + 7.0 mA		
	10 kHz to 20 kHz			
	1 A to 10 A	0.85 % + 20 mA		
	30 Hz to 400 Hz			
	10 A to 1000 A	0.20 % to 0.70 %		
Measurement	10 Hz to 5 kHz			
	0 µA to 200 µA	0.035 % + 25 nA		
	200 µA to 2 mA	0.030 % + 0.23 µA		
	2 mA to 20 mA	0.030 % + 2.3 µA		
	20 mA to 200 mA	0.030 % + 23 µA		
	200 mA to 2 A	0.081 % + 0.23 mA		
	40 Hz to 10 kHz			
	5 mA to 10 mA	34 µA/A + 0.12 µA		
	10 mA to 100 mA	34 µA/A + 0.23 µA		
	100 mA to 1 A	38 µA/A + 2.0 µA		
	1 A to 3 A	43 µA/A + 20 µA		
	3 A to 10 A	72 µA/A + 20 µA		
	10 A to 20 A	76 µA/A + 0.20 mA		



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INDUCTANCE				Portchester
Specific Values - Generation	1 kHz		Known values of inductance for application to inductance measuring instruments.	
	1 μH	0.0012 μH		
	10 μH	0.010 μH		
	100 μH	0.016 μH		
	1 mH	0.13 μH		
	10 mH	0.78 μH		
	100 mH	8.4 μH		
	1 H	80 μH		
	10 H	24 mH		
Specific Values - Measurement	1 kHz			
	1 μH	0.005 μH		
	10 μH	0.011 μH		
	100 μH	0.016 %		
	1 mH	0.014 %		
Other Values			Using inductance bridge.	
Measurement	1 kHz			
	1 μH to 10 μH	0.45 %		
	10 μH to 100 μH	0.11 %		
	100 μH to 1 mH	0.021 %		
	1 mH to 10 mH	0.016 %		
	10 mH to 100 mH	0.015 %		
	100 mH to 1 H	0.015 %		
	1 H to 10 H	0.24 %		
CAPACITANCE				
Specific Values			Known values of capacitance for application to capacitance measuring instruments.	
Generation	1 kHz			
	10 pF	4.0 μF/F		
	100 pF	4.0 μF/F		
	1 nF	4.0 μF/F		
	10 nF	41 μF/F		
	100 nF	41 μF/F		
	1 μF	63 μF/F		
	100 μF	0.050 %		



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CAPACITANCE				Portchester
Measurement	1 kHz			
	10 pF 100 pF 1 nF 10 nF 100 nF 1 μF 100 μF	9.5 μF/F 7.7 μF/F 7.4 μF/F 41 μF/F 41 μF/F 63 μF/F 0.050 %		
Other Values	1 kHz			
	1 pF to 10 μF 10 μF to 100 μF	0.010 % 0.050 %		
Capacitance Simulation			These values are sourced by simulation.	
	0.4 nF to 1.1 nF 10 Hz to 10 kHz 1.1 nF to 3.3nF 10 Hz to 3 kHz 3.3 nF to 11 nF 10 Hz to 1 kHz 11 nF to 33 nF 10 Hz to 1 kHz 33 nF to 110 nF 10 Hz to 1 kHz 110 nF to 330 nF 10 Hz to 1 kHz 330 nF to 1.1 μF 10 Hz to 600 Hz 1.1 μF to 3.3 μF 10 Hz to 300 Hz 3.3 μF to 11 μF 10 Hz to 150 Hz 11 μF to 33 μF 10 Hz to 120 Hz 33 μF to 110 μF 10 Hz to 80 Hz 110 μF to 330 μF DC to 50 Hz 330 μF to 1.1 mF DC to 20 Hz 1.1 mF to 3.3 mF DC to 6 Hz 3.3 mF to 11 mF DC to 2 Hz 11 mF to 33 mF DC to 0.6 Hz 33 mF to 110 mF DC to 0.2 Hz	0.44 % + 8.9 pF 0.44 % + 8.8 pF 0.22 % + 13 pF 0.22 % + 0.91 pF 0.22 % + 0.12 nF 0.22 % + 0.33 nF 0.22 % + 1.1 nF 0.23 % + 2.6 nF 0.22 % + 13 nF 0.38 % + 26 nF 0.40 % + 0.13 μF 0.40 % + 0.26 μF 0.40 % + 0.90 μF 0.40 % + 2.6 μF 0.40 % + 9.1 μF 0.66 % + 26 μF 1.0 % + 91 μF		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
FREQUENCY				Portchester
Specific Values	1 MHz and 10 MHz	2.6 in 10^{12}	Using off-air reference.	
Other Values	0.001 Hz to 0.01 Hz 0.01 Hz to 10 Hz 10 Hz to 100 MHz 100 MHz to 18 GHz	12 in $10^7 + 1$ count 12 in $10^8 + 1$ count 12 in $10^9 + 1$ count 4.0 in $10^9 + 1$ count	Using frequency counter.	
TIME INTERVAL	1 μ s to 10 ms 10 ms to 100 ms 0.1 s to 1 s 1 s to 10 s 10 s to 100 s 100 s to 1000 s 1000 s to 10 000 s 10 000 s to 100 000 s	10 ns 30 ns 200 ns 2.0 μ s 20 μ s 200 μ s 2.0 ms 20 ms	Using time interval averaging	
Timers and time interval	1 s to 24 hours	50 ms	Stopwatch Calibration	
TRANSITION TIME (pulse waveforms)	0 ns to 20 ns 20 ns to 200 ns 200 ns to 2 μ s	5.5 % + 520 ps 5.5 % + 540 ps 5.5 %	Using fast rise oscilloscope.	
SPRING HAMMERS				
Impact Energy Imparted from Spring Operated Impact Test Apparatus - as specified in BS EN 60068-2-75:1997, BS EN 60068-2-75:2014 and IEC 60068-2-75 1997	0.10 Joule to 1.0 Joule	0.010 Joule	Calibrations can be given in Joule or Newton Metre units.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)		Remarks	Location Code
RF BANDWIDTH (oscilloscope calibration)	For input voltages in the range 10 mV p-p to 5 V p-p			Expressed in terms of the frequency at which the - 3dB point is obtained, with respect to a low frequency reference point	Portchester
	50 kHz to 250 MHz	2.5 %		For input VSWR not exceeding 1.3:1	
	250 MHz to 550 MHz	2.6 %			
	50 kHz to 600 MHz	6.0 %		For input VSWR not exceeding 2.5:1	
	600 MHz to 1.6 GHz	6.5 %			
	1.6 GHz to 2.1 GHz	7.5 %			
Electrical calibration of temperature indicators and simulators		Excluding CJC	Including CJC	By injection or measurement of equivalent DC voltages.	
Types K thermocouples	-250 °C to -220 °C -200 °C to -50 °C -50 °C to +1370 °C	0.40 °C 0.25 °C 0.065 °C	0.52 °C 0.28 °C 0.27 °C		
Types N thermocouples	-200 °C to -60 °C -60 °C to 450 °C 450 °C to +1300 °C	0.20 °C 0.08 °C 0.06 °C	0.35 °C 0.27 °C 0.26 °C		
Type T thermocouples	-200 °C to -170 °C -170 °C to -20 °C -20 °C to 1200 °C	0.10 °C 0.07 °C 0.04 °C	0.30 °C 0.26 °C 0.26 °C		
Type R thermocouples	0 °C to 70 °C 70 °C to 720 °C 720 °C to 1760 °C	0.38 °C 0.27 °C 0.16 °C	0.44 °C 0.34 °C 0.25 °C		
Type E thermocouples	-50 °C to +150 °C 150 °C to 1000 °C	0.10 °C 0.050 °C	0.24 °C 0.24 °C		
Type J thermocouples	-210 °C to -180 °C -180 °C to -20 °C -2000 °C to +1200 °C	0.10 °C 0.07 °C 0.04 °C	0.29 °C 0.26 °C 0.26 °C		
Pt 100 Resistance sensors	-200 °C to 500 °C 500 °C to 700 °C 700 °C to 850 °C	0.010 °C 0.020 °C 0.050 °C		Simulation and measurement	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
RELATIVE HUMIDITY				Portchester
Dew point	-20 °C to 0 °C 0 °C to 30 °C 30 °C to 60 °C 60 °C to 85 °C	0.17 °C 0.21 °C 0.26 °C 0.30 °C		
Temperature in air	10 °C to 30 °C 30 °C to 90 °C	0.15 °C 0.19 °C		
Relative humidity instruments	Example conditions based on the above dew point and temperature in air uncertainties		Using a working volume of 30 mm within chamber space	
	Performed at 10 °C 20 %rh to 95 %rh	0.9 %rh to 1.6 %rh		
	Performed at 20 °C 10 %rh to 95 %rh	0.9 %rh to 1.5 %rh		
	Performed at 25 °C 10 %rh to 95 %rh	0.9 %rh to 1.5 %rh		
	Performed at 50 °C 10 %rh to 95 %rh	0.9 %rh to 1.3 %rh		
	Performed at 75 °C 10 %rh to 95 %rh	0.9 %rh to 1.3 %rh		
Relative humidity instruments	Example conditions based on the above dew point and temperature in air uncertainties		Chamber volume 1.5 litres	
	Performed at 10 °C 10 %rh to 95 %rh	0.5 %rh to 1.8 %rh		
	Performed at 20 °C 5 %rh to 95 %rh	0.5 %rh to 1.6 %rh		
	Performed at 30 °C 5 %rh to 95 %rh	0.5 %rh to 1.5 %rh		
	Performed at 40 °C 5 %rh to 95 %rh	0.5 %rh to 1.5 %rh		
	Performed at 50 °C 5 %rh to 95 %rh	0.5 %rh to 1.3 %rh		
Saturated salt capsules	Performed at 20 °C 5 %rh to 50 %rh 50 %rh to 75 %rh 75 %rh to 98 %rh	1.1 %rh 1.6 %rh 2.1 %rh		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code	
TEMPERATURE					
Resistance thermometers	Triple point of water (0.01 °C)	0.0030 °C	By comparison in a fluid bath	Portchester	
	Ice point (0.00 °C)	0.0050 °C			
	-70 °C to +250 °C	0.013 °C			
	-90 °C to -40 °C	0.087 °C			
	-40 °C to 155 °C	0.048 °C			
	155 °C to 300 °C	0.072 °C			
	300 °C to 500 °C	0.076 °C			
	500 °C to 650 °C	0.097 °C			
	-100 °C to -50 °C	0.037 °C			4 mm and 6 mm dry block reference probes by comparison in a dry block
	-50 °C to +155 °C	0.030 °C			
Noble Metal thermocouples (Type R only)	100 °C to 650 °C	1.00 °C	By comparison in a dry block	Portchester	
	650 °C to 900 °C	3.50 °C			
	900 °C to 1100 °C	5.0 °C			
	1100 °C to 1200 °C	7.0 °C			
Base Metal thermocouples (Type K)	-90 °C to +300 °C	0.30 °C	By comparison in a dry block	Portchester	
	300 °C to 650 °C	0.50 °C			
	650 °C to 900 °C	3.50 °C			
	900 °C to 1100 °C	5.0 °C			
	1100 °C to 1200 °C	7.0 °C			
(Type T)	-90 °C to +350 °C	0.30 °C		Portchester	
(Type J)	-40 °C to +300 °C	0.30 °C			
	300 °C to 650 °C	0.50 °C			
(Type N)	650 °C to 750 °C	3.30 °C		Portchester	
(Type N)	-90 °C to +300 °C	0.40 °C		Portchester	
	300 °C to 650 °C	0.50 °C			
	650 °C to 900 °C	3.50			
	900 °C to 1100 °C	5.0 °C			
	1100 °C to 1200 °C	7.0 °C			
Calibration of Block calibrators	-100 °C to +155 °C	0.042 °C	using PRT sensors using PRT sensors using PRT sensors using thermocouples using thermocouples	Portchester	
	155 °C to 230 °C	0.053 °C			
	230 °C to 650 °C	0.073 °C			
	650 °C to 1100 °C	1.8 °C			
	1100 °C to 1200 °C	2.2 °C			
Calibrations in air chamber	-40 °C to +50 °C	0.15 °C		Portchester	
	50 °C to 100 °C	0.20 °C			
Electronic thermometers with sensors	Ranges as for above sensors	as for sensor		Portchester	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
<p>PRESSURE</p> <p>Calibration of pressure indicating instruments and gauges</p> <p>Gas pressure (absolute)</p> <p>Calibration of pressure indicating instruments and gauges</p> <p>Hydraulic pressure (gauge)</p> <p>Calibration of pressure indicating instruments and gauges</p>	<p>80 kPa to 115 kPa</p> <p>-95 kPa to -3.5 kPa -3.5 kPa to -1.5 kPa -1.5 kPa to 1.5 kPa 1.5 kPa to 3.5 kPa 3.5 kPa to 50 kPa 50 kPa to 2.5 MPa 2.5 MPa to 6 MPa 6 MPa to 25 MPa</p> <p>600 kPa to 6.0 Mpa 6.0 MPa to 70 MPa</p> <p>70 MPa to 100 MPa</p>	<p>10 Pa</p> <p>0.010 % 0.040 % +1.5 Pa 0.050 % + 42 Pa 0.040 % +1.5 Pa 0.010 % 0.0080 % 0.050 % + 2.7 kPa 0.050 % + 13 kPa</p> <p>0.010 % 0.010 %</p> <p>50 kPa</p>	<p>Including calibration of pressure measuring devices with an electrical output</p> <p>Calibration by comparison with a digital pressure standard</p> <p>Absolute pressure calibrations may be undertaken by associated barometric pressure measurement with an additional uncertainty of ± 10 Pa</p> <p>Calibration by comparison with a deadweight tester using hydraulic oil or alternatively water via a separator which will attract an additional 2.8 kPa measurement uncertainty.</p> <p>Comparison with digital pressure standard.</p>	<p>Portchester</p>



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
CALIBRATION OF 16TH/17TH EDITION TEST EQUIPMENT (continued)			Using dedicated calibrator that covers all relevant functions.	Portchester
Earth Leakage Current Test	<i>At 50 Hz</i> 240 μ A, 1 mA and 3 mA	1.7 % + 9.7 μ A		
Flash Voltage Test	<i>At 50 Hz</i> 500 V to 1000 V (Class 1) 1000 V to 1500 V (Class 1) 2000 V to 3600 V (Class 2)	4.6 % + 12 V 4.6 % + 17 V 4.6 % + 23 V		
Flash Current Test	<i>At 50 Hz:</i> 1 mA to 3 mA	5.8 % + 17 μ A		
AC Voltage Output <i>At 50 Hz</i>	100 V to 400 V	2.3 % + (0.20 to 0.28) V		
<u>RELATIVE HUMIDITY</u>				Site Calibration
Humidity controlled chambers (including associated indicators, controllers and recorders)	10 °C to 90 °C 5.0 %rh to 98 %rh	2.0 %rh	There may be an additional uncertainty due to the performance of the chamber being calibrated	
<u>TEMPERATURE</u>				
Temperature controlled chambers, autoclaves, fridges/refrigerators, freezers, ovens and furnaces (including associated indicators, controllers and recorders)	-80 °C to -40 °C -40 °C to +150 °C 150 °C to 250 °C 250 °C to 375 °C 375 °C to 600 °C 600 °C to 1100 °C	1.0 °C 0.15 °C 1.0 °C 2.1 °C 5.2 °C 5.6 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	
Temperature indicators with probes	-196 °C -20 °C to +140 °C 140 °C to 600 °C	0.50 °C 0.15 °C 0.21 °C	Using customer's source	
<u>TIME</u>				
Timers and time interval	5 s to 24 hours	1.0 s	Elapsed time measurement.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code	
<u>ELECTRICAL</u>					
TEMPERATURE SIMULATION					
Calibration of temperature indicators for the following sensor types			By injection of equivalent DC voltages or resistances.	Site Calibration	
Base metal thermocouple	-250 °C to -200 °C -200 °C to 0 °C 0 °C to 1000 °C 1000 °C to 1370 °C	1.5 °C 0.29 °C 0.12 °C 0.17 °C	Excluding cold junction compensation		
	-250 °C to -200 °C -200 °C to 0 °C 0 °C to 1370 °C	1.5 °C 0.40 °C 0.30 °C	Including cold junction compensation		
Noble metal thermocouple	0 °C to 40 °C 40 °C to 250 °C 250 °C to 1760 °C	1.2 °C 0.70 °C 0.47 °C	Excluding cold junction compensation		
	0 °C to 40 °C 40 °C to 250 °C 250 °C to 1760 °C	1.5 °C 1.2 °C 1.1 °C	Including cold junction compensation		
Resistance sensors	-200 °C to 0 °C 0 °C to 750 °C 750 °C to 850 °C	0.040 °C 0.35 °C 0.40 °C			
DC VOLTAGE					
Generation	0 mV to 10 mV 10 mV to 0.1 V 0.1 V to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.027 % + 3.9 µV 0.018 % + 8.5 µV 0.010 % + 14 µV 0.012 % + 120 µV 0.023 % + 6.0 mV 0.035 % + 58 mV	Application of known DC voltages to voltage measuring instruments.		
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 1 kV to 2 kV 2 kV to 20 kV	0.030 % + 6.0 µV 0.0050 % + 9.0 µV 0.0040 % + 60 µV 0.0060 % + 0.70 mV 0.0060 % + 2.0 mV 0.060 % + 0.60 V 0.080 % + 6.0 V	Using digital multimeter. Using multimeter and voltage divider.		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
DC RESISTANCE				Site Calibration
Generation	10 mΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ	0.013 % + 0.30 mΩ 0.070 % + 45 mΩ 0.070 % + 2.5 Ω 0.070 % + 120 Ω 0.090 % + 1.5 kΩ	Application of known DC resistances to resistance measuring instruments.	
Measurement	10 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ	0.012 % + 5.4 mΩ 0.012 % + 2.9 mΩ 0.012 % + 0.13 Ω 0.012 % + 1.30 Ω 0.013 % + 17 Ω 0.050 % + 0.26 kΩ 1.3 % + 12 kΩ	Using digital multimeter.	
DC CURRENT				
Generation	0 μA to 100 μA 100 μA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.029 % + 6.4 nA 0.019 % + 8.1 nA 0.012 % + 0.27 μA 0.013 % + 2.4 μA 0.035 % + 63 μA 0.071 % + 2.3 mA	Application of known DC currents to current measuring instruments.	
Measurement	0 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 3 A	0.060 % + 2.5 μA 0.060 % + 6.0 μA 0.12 % + 0.20 mA 0.15 % + 1.0 mA	Using digital multimeter.	
AC VOLTAGE				
Generation	1 mV to 10 mV 40 Hz to 400 Hz 400 Hz to 800 Hz 800 Hz to 3.2 kHz 3.2 kHz to 6.4 kHz 6.4 kHz to 12.8 kHz 10 mV to 100 mV 40 Hz to 400 Hz 400 Hz to 800 Hz 800 Hz to 1.6 kHz 1.6 kHz to 3.2 kHz 3.2 kHz to 6.4 kHz 6.4 kHz to 12.8 kHz	 0.17 % + 6.0 μV 0.33 % + 12 μV 0.47 % + 12 μV 1.2 % + 23 μV 2.9 % + 60 μV 0.12 % + 60 μV 0.33 % + 120 μV 0.49 % + 120 μV 0.47 % + 120 μV 1.2 % + 230 μV 2.9 % + 580 μV	Application of known AC voltages to voltage measuring instruments.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
AC VOLTAGE (continued)				Site Calibration
Generation	100 mV to 1 V			
	40 Hz to 400 Hz	0.090 % + 87 μ V		
	400 Hz to 800 Hz	0.17 % + 140 μ V		
	800 Hz to 1.6 kHz	0.33 % + 240 μ V		
	1.6 kHz to 3.2 kHz	0.47 % + 470 μ V		
	3.2 kHz to 6.4 kHz	1.2 % + 1.2 mV		
	6.4 kHz to 12.8 kHz	2.9 % + 2.3 mV		
	1 V to 10 V			
	40 Hz to 400 Hz	0.090 % + 0.90 mV		
	400 Hz to 800 Hz	0.17 % + 1.2 mV		
	800 Hz to 1.6 kHz	0.33 % + 2.4 mV		
	1.6 kHz to 3.2 kHz	0.47 % + 5.0 mV		
	3.2 kHz to 6.4 kHz	1.2 % + 12 mV		
	6.4 kHz to 12.8 kHz	2.9 % + 35 mV		
	10 V to 100 V			
	40 Hz to 400 Hz	0.14 % + 14 mV		
	100 V to 1000 V			
	40 Hz to 400 Hz	0.19 % + 0.59 V		
Measurement	10 mV to 100 mV		Using digital multimeter.	
	32 Hz to 330 Hz	0.12 % + 25 μ V		
	330 Hz to 10 kHz	0.19 % + 25 μ V		
	100 mV to 1.0 V			
	32 Hz to 330 Hz	0.080 % + 0.18 mV		
	330 Hz to 10 kHz	0.080 % + 0.18 mV		
	1 V to 10 V			
	32 Hz to 330 Hz	0.080 % + 5.0 mV		
	330 Hz to 10 kHz	0.080 % + 5.0 mV		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
AC VOLTAGE (continued) Measurement	10 V to 100 V 32 Hz to 330 Hz 330 Hz to 10 kHz 100 V to 750 V 32 Hz to 330 Hz 330 Hz to 10 kHz 50 Hz 750 V to 2 kV 2 kV to 8 kV	 0.080 % + 50 mV 0.080 % + 50 mV 0.080 % + 0.50 V 0.080 % + 0.50 V 0.51 % + 3.00 V 0.68 % + 50 V		Site Calibration
AC CURRENT Generation	10 μ A to 100 μ A 45 Hz to 100 Hz 100 Hz to 400 Hz 400 Hz to 800 Hz 100 μ A to 1 mA 45 Hz to 100 Hz 100 Hz to 400 Hz 400 Hz to 800 Hz 800 Hz to 1.6 kHz 1.6 kHz to 3.2 kHz 1 mA to 10 mA 45 Hz to 100 Hz 100 Hz to 400 Hz 400 Hz to 800 Hz 800 Hz to 1.6 kHz 1.6 kHz to 3.2 kHz 3.4 kHz to 6.4 kHz	 0.22 % + 85 nA 0.12 % + 90 nA 0.34 % + 150 nA 0.11 % + 0.51 μ A 0.090 % + 0.70 μ A 0.12 % + 0.40 μ A 0.24 % + 0.42 μ A 0.47 % + 0.60 μ A 0.10 % + 2.6 μ A 0.070 % + 3.1 μ A 0.12 % + 3.2 μ A 0.23 % + 3.8 μ A 0.58 % + 5.5 μ A 2.3 % + 12 μ A	Application of known AC currents to current measuring instruments.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC CURRENT (continued)				Site Calibration
Generation	10 mA to 100 mA 45 Hz to 100 Hz 100 Hz to 400 Hz 400 Hz to 800 Hz 800 Hz to 1.6 kHz 1.6 kHz to 3.2 kHz 3.4 kHz to 6.4 kHz	0.10 % + 26 µA 0.070 % + 29 µA 0.12 % + 30 µA 0.23 % + 36 µA 0.58 % + 54 µA 2.3 % + 120 µA		
	100 mA to 1 A 45 Hz to 100 Hz 100 Hz to 400 Hz 400 Hz to 800 Hz 800 Hz to 1.6 kHz 1.6 kHz to 3.2 kHz 3.4 kHz to 6.4 kHz	0.13 % + 0.30 mA 0.15 % + 0.30 mA 0.17 % + 0.40 mA 0.26 % + 0.50 mA 0.60 % + 0.70 mA 2.3 % + 1.2 mA		
	1 A to 10 A 10 Hz to 400 Hz 400 Hz to 800 Hz 800 Hz to 1.6 kHz	0.14 % + 10 mA 0.24 % + 12 mA 0.36 % + 12 mA		
Measurement	0.1 A to 1 A 10 Hz to 1 kHz	0.15 % + 0.60 mA	Using digital multimeter.	
	1 A to 3 A 10 Hz to 1 kHz	0.20 % + 2.8 mA		
<u>PRESSURE</u>				
Gas pressure (absolute)				
Calibration of pressure indicating instruments and gauges	20 kPa to 200 kPa	0.10 % + 0.26 kPa	Including calibration of pressure measuring devices with an electrical output	
Gas pressure (gauge)				
Calibration of pressure indicating instruments and gauges	-95 kPa to 0 kPa 0 kPa to 3.5 kPa 3.5 kPa to 10 kPa 10 kPa to 2 MPa	0.050 % + 0.24 kPa 0.061 % + 4.0 Pa 0.050 % + 3.7 Pa 0.050 % + 0.33 kPa	Absolute pressure Measurements across These ranges will attract an Additional uncertainty of 0.010 % + 0.26 kPa	
Hydraulic pressure (gauge)				
Calibration of pressure indicating instruments and gauges	0 MPa to 7 MPa 7 MPa to 16 MPa	0.010 % + 3.9 kPa 0.050 % + 3.3 kPa		

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