


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: 060 Issue date: 13 April 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
ELECTRICAL CALIBRATION				
DC RESISTANCE Measurement, <i>Specific Values</i>	100 $\mu\Omega$ 1 m Ω 10 m Ω 100 m Ω 1 Ω 10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω 1 M Ω 10 M Ω 100 M Ω 1 G Ω	4.0 $\mu\Omega/\Omega$ 0.30 $\mu\Omega/\Omega$ 0.30 $\mu\Omega/\Omega$ 0.36 $\mu\Omega/\Omega$ 0.093 $\mu\Omega/\Omega$ 0.093 $\mu\Omega/\Omega$ 0.093 $\mu\Omega/\Omega$ 0.092 $\mu\Omega/\Omega$ 0.11 $\mu\Omega/\Omega$ 0.22 $\mu\Omega/\Omega$ 0.61 $\mu\Omega/\Omega$ 1.8 $\mu\Omega/\Omega$ 4.5 $\mu\Omega/\Omega$ 5.3 $\mu\Omega/\Omega$	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
Measurement, <i>Other values</i>	80 m Ω to 800 m Ω 0.80 Ω to 107.5 Ω 107.5 Ω to 1.34 k Ω 1.34k Ω to 10.75 k Ω 10.75 k Ω to 12 k Ω 12 k Ω to 63 k Ω 63 k Ω to 134 k Ω 134 k Ω to 1.075 M Ω 1.075 M Ω to 13.4 M Ω 13.4 M Ω to 630 M Ω 630 M Ω to 1.075 G Ω 1.075 G Ω to 2 G Ω 2 G Ω to 20 G Ω 20 G Ω to 200 G Ω 200 G Ω to 2 T Ω	0.36 $\mu\Omega/\Omega$ 0.093 $\mu\Omega/\Omega$ 0.092 $\mu\Omega/\Omega$ 0.11 $\mu\Omega/\Omega$ 0.17 $\mu\Omega/\Omega$ 0.17 $\mu\Omega/\Omega$ 0.22 $\mu\Omega/\Omega$ 0.61 $\mu\Omega/\Omega$ 1.9 $\mu\Omega/\Omega$ 4.5 $\mu\Omega/\Omega$ 5.3 $\mu\Omega/\Omega$ 0.025% 0.062% 0.10 % 0.12 %	See note above	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL CALIBRATION				Portchester
DC RESISTANCE (continued)				
Generation, <i>Specific values</i>			Known values of resistance for application to DC resistance measuring devices.	
	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			
	0.1 Ω	0.030 %	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.	
	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	0.1 V	0.70 $\mu\text{V}/\text{V}$	By comparison with DC voltage reference standards using voltage dividers.	
	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
ELECTRICAL CALIBRATION				Portchester
DC VOLTAGE (continued)				
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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ELECTRICAL CALIBRATION				Portchester
AC VOLTAGE			Derived by means of AC/DC transfer techniques.	
Generation	<i>10 Hz to 31 Hz</i>			
	1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.011 % + 0.35 mV 0.012 % + 6.0 mV 0.017 % + 20 mV		
	<i>31 Hz to 330 Hz</i>			
	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	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		
	<i>330 Hz to 10 kHz</i>			
	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	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		
	<i>10 kHz to 33 kHz</i>			
	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	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		
	<i>30 kHz to 100 kHz</i>			
	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	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		



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ELECTRICAL CALIBRATION				
AC VOLTAGE (continued)				
Generation (continued)	100 kHz to 330 kHz			
	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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ELECTRICAL CALIBRATION				
AC VOLTAGE (continued)				
Measurement (continued)	22 mV to 70 mV			Portchester
	10 Hz to 20 Hz	88 µV/V + 1.7 µV		
	20 Hz to 40 Hz	57 µV/V + 1.7 µV		
	40 Hz to 20 kHz	40 µV/V + 1.7 µV		
	20 kHz to 50 kHz	64 µV/V + 2.3 µV		
	50 kHz to 100 kHz	84 µV/V + 2.9 µV		
	100 kHz to 300 kHz	200 µV/V + 4.6 µV		
	300 kHz to 500 kHz	380 µV/V + 9.2 µV		
	500 kHz to 1 MHz	0.14 % + 9.2 µV		
	70 mV to 220 mV			
	10 Hz to 20 Hz	77 µV/V + 1.7 µV		
	20 Hz to 40 Hz	46 µV/V + 1.7 µV		
	40 Hz to 20 kHz	40 µV/V + 1.7 µV		
	20 kHz to 50 kHz	42 µV/V + 2.3 µV		
	50 kHz to 100 kHz	73 µV/V + 2.9 µV		
	100 kHz to 300 kHz	200 µV/V + 4.6 µV		
	300 kHz to 500 kHz	360 µV/V + 9.2 µV		
	500 kHz to 1 MHz	0.14 % + 9.2 µV		
	200 mV to 700 mV			
	10 Hz to 20 Hz	75 µV/V + 1.7 µV		
	20 Hz to 40 Hz	44 µV/V + 1.7 µV		
	40 Hz to 20 kHz	40 µV/V + 1.7 µV		
	20 kHz to 50 kHz	40 µV/V + 2.3 µV		
	50 kHz to 100 kHz	71 µV/V + 2.9 µV		
	100 kHz to 300 kHz	200 µV/V + 4.6 µV		
	300 kHz to 500 kHz	360 µV/V + 9.2 µV		
	500 kHz to 1 MHz	0.14 % + 9.2 µV		
	700 mV to 2.2 V			
	10 Hz to 20 Hz	74 µV/V		
	20 Hz to 40 Hz	43 µV/V		
	40 Hz to 20 kHz	34 µV/V		
	20 kHz to 50 kHz	41 µV/V		
	50 kHz to 100 kHz	68 µV/V		
	100 kHz to 300 kHz	190 µV/V		
	300 kHz to 500 kHz	330 µV/V		
	500 kHz to 1 MHz	0.14 %		



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ELECTRICAL CALIBRATION				Portchester
AC VOLTAGE (continued)				
Measurement (continued)	2 V to 7 V			
	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				
ELECTRICAL CALIBRATION				Portchester				
AC VOLTAGE (continued)								
Measurement (continued)	200 V to 700 V							
	10 Hz to 20 Hz	79 μ V/V						
	20 Hz to 40 Hz	50 μ V/V						
	40 Hz to 20 kHz	39 μ V/V						
	20 kHz to 50 kHz	160 μ V/V						
	50 kHz to 100 kHz	980 μ V/V						
	700 V to 1000 V							
	10 Hz to 20 Hz	78 μ V/V						
	20 Hz to 40 Hz	50 μ V/V						
	40 Hz to 20 kHz	39 μ V/V						
	20 kHz to 50 kHz	160 μ V/V						
	50 kHz to 100 kHz	980 μ V/V						
	1 kV to 8 kV		Using voltage divider.					
	50 Hz	0.50 %						
Specific values (measurement)								
CMCs for specific values of voltage at the frequencies shown, expressed in μ V/V ($k = 2$)								
Voltage	10 Hz	20 Hz	40 Hz, 50 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
ELECTRICAL CALIBRATION				Portchester
AC CURRENT				
Generation	<i>10 Hz to 1 kHz</i>		Known values of AC current for application to current measuring instruments.	
	10 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.030 % + 15 nA 0.025 % + 120 nA 0.020 % + 1.2 μ A 0.015 % + 12 μ A 0.040 % + 120 μ A 0.060 % + 1.5 mA		
	<i>1 kHz to 5 kHz</i>			
	10 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.040 % + 30 nA 0.025 % + 120 nA 0.025 % + 1.2 μ A 0.025 % + 12 μ A 0.055 % + 160 μ A 0.11 % + 1.9 mA		
	<i>5 kHz to 10 kHz</i>			
	1 A to 10 A	0.26 % + 7.0 mA		
	<i>10 kHz to 20 kHz</i>			
	1 A to 10 A	0.85 % + 20 mA		
	<i>30 Hz to 400 Hz</i>		For calibration of current clamps and similar devices using multi-turn coil method.	
	10 A to 1000 A	0.20 % to 0.70 %		
Measurement	<i>10 Hz to 5 kHz</i>			
	0 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A	0.035 % + 25 nA 0.030 % + 0.23 μ A 0.030 % + 2.3 μ A 0.030 % + 23 μ A 0.081 % + 0.23 mA		
	<i>40 Hz to 10 kHz</i>			
	5 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 3 A 3 A to 10 A 10 A to 20 A	34 μ A/A + 0.12 μ A 34 μ A/A + 0.23 μ A 38 μ A/A + 2.0 μ A 43 μ A/A + 20 μ A 72 μ A/A + 20 μ A 76 μ A/A + 0.20 mA		



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ELECTRICAL CALIBRATION				Portchester
INDUCTANCE				
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		Using inductance bridge.	
	1 μH	0.005 μH		
	10 μH	0.011 μH		
	100 μH	0.016 %		
	1 mH	0.014 %		
	10 mH	0.013 %		
	100 mH	0.013 %		
	1 H	0.015 %		
Other Values				
Measurement	1 kHz		Using inductance bridge.	
	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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ELECTRICAL CALIBRATION				
CAPACITANCE				
Measurement	1 kHz			
	10 pF	9.5 μF/F		
	100 pF	7.7 μF/F		
	1 nF	7.4 μF/F		
	10 nF	41 μF/F		
	100 nF	41 μF/F		
	1 μF	63 μF/F		
	100 μF	0.050 %		
Other Values	1 kHz			
	1 pF to 10 μF	0.010 %		
	10 μF to 100 μF	0.050 %		
Capacitance Simulation	0.4 nF to 1.1 nF		These values are sourced by simulation.	Portchester
	10 Hz to 10 kHz	0.44 % + 8.9 pF		
	1.1 nF to 3.3nF			
	10 Hz to 3 kHz	0.44 % + 8.8 pF		
	3.3 nF to 11 nF			
	10 Hz to 1 kHz	0.22 % + 13 pF		
	11 nF to 33 nF			
	10 Hz to 1 kHz	0.22 % + 0.91 pF		
	33 nF to 110 nF			
	10 Hz to 1 kHz	0.22 % + 0.12 nF		
	110 nF to 330 nF			
	10 Hz to 1 kHz	0.22 % + 0.33 nF		
	330 nF to 1.1 μF			
	10 Hz to 600 Hz	0.22 % + 1.1 nF		
	1.1 μF to 3.3 μF			
	10 Hz to 300 Hz	0.23 % + 2.6 nF		
	3.3 μF to 11 μF			
	10 Hz to 150 Hz	0.22 % + 13 nF		
	11 μF to 33 μF			
	10 Hz to 120 Hz	0.38 % + 26 nF		
	33 μF to 110 μF			
	10 Hz to 80 Hz	0.40 % + 0.13 μF		
	110 μF to 330 μF			
	DC to 50 Hz	0.40 % + 0.26 μF		
	330 μF to 1.1 mF			
	DC to 20 Hz	0.40 % + 0.90 μF		
	1.1 mF to 3.3 mF			
	DC to 6 Hz	0.40 % + 2.6 μF		
	3.3 mF to 11 mF			
	DC to 2 Hz	0.40 % + 9.1 μF		
	11 mF to 33 mF			
	DC to 0.6 Hz	0.66 % + 26 μF		
	33 mF to 110 mF			
	DC to 0.2 Hz	1.0 % + 91 μF		



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Absolute Calibration Limited
Issue No: 060 Issue date: 13 April 2026

Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL CALIBRATION				Portchester
FREQUENCY				
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
ELECTRICAL CALIBRATION					
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	
	50 kHz to 250 MHz	2.5 %		<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="margin-left: 5px;">For input VSWR not exceeding 1.3:1</div> </div> <div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="margin-left: 5px;">For input VSWR not exceeding 2.5:1</div> </div> <i>The uncertainties will be increased for values of VSWR greater than those shown above.</i>	
	250 MHz to 550 MHz	2.6 %			
	50 kHz to 600 MHz	6.0 %			
	600 MHz to 1.6 GHz	6.5 %			
	1.6 GHz to 2.1 GHz	7.5 %			
Electrical calibration of temperature indicators and simulators				By injection or measurement of equivalent DC voltages.	Portchester
		Excluding CJC	Including CJC		
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				
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		Portchester
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		
	Performed at 90 °C 10 %rh to 82 %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		
	Performed at 60 °C 10 %rh to 50 %rh	0.5 %rh to 0.8 %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) Ice point (0.00 °C)	0.0030 °C 0.0050 °C		Portchester
	-70 °C to +250 °C	0.013 °C	By comparison in a fluid bath	
	-90 °C to -40 °C	0.087 °C	By comparison in a dry block	
	-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 650 °C to 900 °C 900 °C to 1100 °C 1100 °C to 1200 °C	1.00 °C 2.50 °C 2.7 °C 3.0 °C	By comparison in a dry block	
Base Metal thermocouples (Type K)	-90 °C to +300 °C 300 °C to 650 °C 650 °C to 900 °C 900 °C to 1100 °C 1100 °C to 1200 °C	0.30 °C 0.50 °C 2.50 °C 2.7 °C 3.0 °C	By comparison in a dry block	
(Type T)	-90 °C to +350 °C	0.30 °C		
(Type J)	-40 °C to +300 °C 300 °C to 650 °C 650 °C to 750 °C	0.30 °C 0.50 °C 2.50 °C		
(Type N)	-90 °C to +300 °C 300 °C to 650 °C 650 °C to 900 °C 900 °C to 1100 °C 1100 °C to 1200 °C	0.40 °C 0.50 °C 2.50 °C 2.7 °C 3.0 °C		
Calibration of Block calibrators	-100 °C to +155 °C 155 °C to 230 °C 230 °C to 650 °C 650 °C to 1100 °C 1100 °C to 1200 °C	0.042 °C 0.053 °C 0.073 °C 1.8 °C 2.2 °C	using PRT sensors using PRT sensors using PRT sensors using thermocouples using thermocouples	
Calibrations in air chamber	-40 °C to +50 °C 50 °C to 100 °C	0.15 °C 0.20 °C		
Electronic thermometers with sensors	Ranges as for above sensors	as for sensor		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
PRESSURE				Portchester
Calibration of pressure indicating instruments and gauges			Including calibration of pressure measuring devices with an electrical output	
Gas pressure (absolute)	80 kPa to 115 kPa	10 Pa	Calibration by comparison with a digital pressure standard	
Calibration of pressure indicating instruments and gauges	-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	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	Absolute pressure calibrations may be undertaken by associated barometric pressure measurement with an additional uncertainty of ± 10 Pa	
Hydraulic pressure (gauge)				
Calibration of pressure indicating instruments and gauges	600 kPa to 6.0 Mpa 6.0 MPa to 70 MPa	0.010 % 0.010 %	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.	
	70 MPa to 100 MPa	50 kPa	Comparison with digital pressure standard.	



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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						
Insulation Resistance	<i>Test voltages up to 1.1kV</i> 0 MΩ to 5 MΩ 5 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ 10 GΩ <i>Test voltage 5 kV</i> 1 GΩ to 200 GΩ	0.12 % + 10 kΩ 1.2 % + 10 kΩ 1.2 % + 65 kΩ 1.2 % + 8.1 MΩ 5.8 % 1.8 %	Using dedicated calibrator that covers all relevant functions.	Portchester		
Continuity Resistance	0 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 5 kΩ 5 kΩ to 50 kΩ	0.29 % + 31 mΩ 0.29 % + 33 mΩ 0.29 % + 12 mΩ 0.29 % + 1.6 Ω 0.29 % + 16 Ω				
Continuity Current	0 mA to 320 mA	1.5 % + 0.81 mA				
Insulation Voltage	50 V to 1000 V	1.2 % + 0.93 V				
Loop Resistance	<i>At 50 Hz</i> 0.05 Ω to 1 kΩ 10 Ω 100 Ω 1 kΩ	0.58 % + 5.0 mΩ 0.72 % 0.58 % 0.58 %				
RCD Current	<i>At 50 Hz</i> 2 mA to 10 mA 10 mA to 30 mA 30 mA to 100 mA 100 mA to 300 mA 300 mA to 1 A 1 A to 3 A	1.4 % + 73 μA 1.4 % + 110 μA 1.4 % + 0.16 mA 1.4 % + 0.11 mA 1.4 % + 1.7 mA 1.4 % + 3.1 mA			For trip times up to 5 s.	
RCD Trip Time	20 ms to 390 ms 390 ms to 900 ms	0.69 ms 8.1 ms				
Earth Bond Current	<i>At 50 Hz</i> 100 mA to 500 mA 500 mA to 10 A 10 A to 30 A	1.7 % 1.7 % 1.7 %				
Earth Bond Resistance	<i>At 50 Hz</i> 0.05 Ω to 1 kΩ	0.58 % + (4.7 to 35) mΩ				



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



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



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ELECTRICAL				Site Calibration
AC VOLTAGE (continued)				
Measurement	10 V to 100 V			
	32 Hz to 330 Hz 330 Hz to 10 kHz	0.080 % + 50 mV 0.080 % + 50 mV		
	100 V to 750 V			
	32 Hz to 330 Hz 330 Hz to 10 kHz	0.080 % + 0.50 V 0.080 % + 0.50V		
	50 Hz			
	750 V to 2 kV 2 kV to 8 kV	0.51 % + 3.00 V 0.68 % + 50 V		
AC CURRENT			Application of known AC currents to current measuring instruments.	
Generation	10 μ A to 100 μ A			
	45 Hz to 100 Hz 100 Hz to 400 Hz 400 Hz to 800 Hz	0.22 % + 85 nA 0.12 % + 90 nA 0.34 % + 150 nA		
	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	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		
	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	0.10 % + 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		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code	
ELECTRICAL					
AC CURRENT (continued)					
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 μ A 0.070 % + 29 μ A 0.12 % + 30 μ A 0.23 % + 36 μ A 0.58 % + 54 μ A 2.3 % + 120 μ A		Site Calibration	
	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			
PRESSURE					
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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United Kingdom Accreditation Service
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Calibration performed by the Organisation at the locations specified

Appendix - Calibration and Measurement Capabilities

Introduction

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

Calibration and Measurement Capabilities (CMCs)

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

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

Expression of CMCs - symbols and units

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

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