

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0152</b>  Accredited to <b>ISO/IEC 17025:2017</b>	<b>ServiceCal Limited</b>  Issue No: 042 Issue date: 24 April 2026	
	<b>Unit A9 Axis Point</b> <b>Hareshill Business Park</b> <b>Hilltop Road</b> <b>Heywood</b> <b>Lancashire</b> <b>OL10 2RQ</b>	<b>Contact: Mr G D Taylor</b> <b>Tel: +44 (0)1706 367008</b> <b>Fax: +44 (0)1706 622469</b> <b>E-Mail: info@servicecal.co.uk</b> <b>Website: www.servicecal.co.uk</b>

**Calibration performed by the Organisation at the locations specified**

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
Unit A9 Axis Point Hareshill Business Park Hilltop Road Heywood Lancashire OL10 2RQ  <b>Local contact</b> Mr G D Taylor  Tel: +44 (0)1706 367008 Email: info@servicecal.co.uk	All	Lab

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
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.	Electrical	Site



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<b>ELECTRICAL</b>				
DC RESISTANCE				
Generation				
Specific Values	0.01 Ω 0.1 Ω 1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 MΩ	25 μΩ/Ω 7.0 μΩ/Ω 7.0 μΩ/Ω 5.0 μΩ/Ω 5.0 μΩ/Ω 6.0 μΩ/Ω 11 μΩ/Ω 75 μΩ/Ω	Using standard resistors in a 2-terminal or a 4-terminal configuration as appropriate to the resistance value.	Site & Lab
	1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ	20.2 μΩ/Ω 7.0 μΩ/Ω 9.0 μΩ/Ω 6.0 μΩ/Ω 3.7 μΩ/Ω 6.5 μΩ/Ω 12 μΩ/Ω 35 μΩ/Ω 75 μΩ/Ω	Using multifunction calibrator in a 2-terminal or a 4-terminal configuration as appropriate to the resistance value.	Site & Lab
Other Values	0 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 200 kΩ 200 kΩ to 2 MΩ 2 MΩ to 20 MΩ 20 MΩ to 200 MΩ 200 MΩ to 2 GΩ	30 μΩ/Ω + 60 μΩ 20 μΩ/Ω 15 μΩ/Ω 30 μΩ/Ω 70 μΩ/Ω 650 μΩ/Ω 0.65 %	By comparison with known resistance values.	Site & Lab
Measurement				
Specific Values	0.01 Ω 0.1 Ω 1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 MΩ	25 μΩ/Ω 7.0 μΩ/Ω 7.0 μΩ/Ω 5.0 μΩ/Ω 5.0 μΩ/Ω 6.0 μΩ/Ω 11 μΩ/Ω 75 μΩ/Ω	By comparison with known resistance values.	Site & Lab



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<b>ELECTRICAL</b> (cont'd)				
DC RESISTANCE (cont'd)				
Other Values	0 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 200 kΩ  200 kΩ to 2 MΩ 2 MΩ to 20 MΩ 20 MΩ to 200 MΩ 200 MΩ to 2 GΩ	25 μΩ/Ω 11.5 μΩ/Ω 12 μΩ/Ω  15 μΩ/Ω 35 μΩ/Ω 260 μΩ/Ω 0.27 %	Using digital multimeter.	Site & Lab
DC VOLTAGE				
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	6 μV/V + 0.50 μV 2.3 μV/V + 0.80 μV 1.5 μV/V 4.0 μV/V 4.9 μV/V	Using multifunction calibrator	Site & Lab
Specific Values	100 mV 1 V 10 V 100 V 1 kV	6.8 μV/V 2.9 μV/V 3.2 μV/V 3.1 μV/V 3.5 μV/V		
Measurement	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 1100 V	11 μV 4.3 μV/V 3.8 μV/V 6.4 μV/V	Using digital multimeter.	Site & Lab
DC CURRENT				
Generation	0 μA to 220 μA 220 μA to 2.2 mA 2.2 mA to 22 mA 22 mA to 220 mA 220 mA to 2.2 A 2.2 A to 30 A  20 A to 1000 A	15 μA/A + 7.0 nA 9 μA/A + 8.0 nA 8 μA/A 30 μA/A 40 μA/A 300 μA/A  425 μA/A	Using multifunction calibrator	Site & Lab
Specific values	100 μA 1 mA 10 mA 100 mA 1 A 10 A	75 μA/A 12 μA/A 8 μA/A 30 μA/A 40 μA/A 140 μA/A	For calibration of clamp-on ammeters and similar devices, using a multi-turn coil method.  Using multifunction calibrator.	Site & Lab  Site & Lab



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<b>ELECTRICAL</b> (cont'd)				
DC CURRENT (cont'd)				
Measurement	0 $\mu$ A to 200 $\mu$ A 200 $\mu$ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A	45 $\mu$ A/A + 9.0 nA 14 $\mu$ A/A + 8.5 nA 22 $\mu$ A/A 80 $\mu$ A/A 275 $\mu$ A/A 810 $\mu$ A/A	Using digital multimeter.  Using digital multimeter and current shunt.	Site & Lab  Site & Lab
AC VOLTAGE				
Generation	2 mV to 200 V 10 Hz to 100 kHz  200 V to 1 kV 55 Hz to 1 kHz	0.090 % + 50 $\mu$ V  0.010 % + 50 $\mu$ V	Using multifunction calibrator.	Site & Lab
Specific values	10 Hz to 100 kHz: 2 mV 20 mV 100 mV 1 V 10 V 100 V  55 Hz to 1 kHz 1000 V  100 mV 500 Hz 1 kHz 10 kHz 50 kHz  1 V 500 Hz 1 kHz 10 kHz 50 kHz  10 V 500 Hz 1 kHz 10 kHz 50 kHz	0.10 % 0.030 % 0.030 % 0.017 % 0.017 % 0.017 %  0.010 %  0.005 % 0.005 % 0.005 % 0.010 %  0.005 % 0.005 % 0.005 % 0.005 %  0.005 % 0.005 % 0.005 % 0.005 %	Using multifunction calibrator.	Site & Lab



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<b>ELECTRICAL</b> (cont'd)				
AC VOLTAGE (cont'd)				
Generation, Specific values (continued)	100 V 500 Hz 1 kHz 10 kHz 50 kHz	0.005 % 0.005 % 0.005 % 0.010 %		Site & Lab
	1000 V 105 Hz 500 Hz 1 kHz 10 kHz	0.030 % 0.007 % 0.007 % 0.016 %		
Measurement	12 mV to 121 mV 1 Hz to 10 kHz 10 kHz to 100 kHz	0.017 % 0.069 %	Using digital multimeter.	Site & Lab
	121 mV to 121 V 20 Hz to 10 kHz 10 kHz to 100 kHz	0.016 % 0.077 %		
Specific values	121 V to 1050 V 40 Hz to 10 kHz	0.0017 %		Site & Lab
	105 Hz, 1 kHz, 10 kHz 100 mV 1 V, 10 V, 100 V, 1 kV	0.016 % 0.016 %		
	30 kHz 100 mV, 1 V, 10 V, 100 V, 1 kV	0.031 %		
AC CURRENT				
Generation	55 Hz to 5 kHz 100 µA 1 mA 10 mA 100 mA 1 A	0.031 % 0.018 % 0.005 % 0.009 % 0.063 %	Using multifunction calibrator.	Site & Lab
	2.1 A to 30 A 40 Hz to 1 kHz	0.11 %		
	50 Hz 10 A to 1500 A	0.12 %	For calibration of clamp-on ammeters and similar devices, using a multi-turn coil method.	Site & Lab



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<b>ELECTRICAL</b> (cont'd) AC CURRENT (cont'd)				
Measurement	1 Hz to 10 kHz 10 µA to 20.2 µA	0.27 %	Using digital multimeter.	Site & Lab
	1 Hz to 10 kHz 20.2 µA to 2.02 mA	0.08 %		
	10 Hz to 10 kHz 2.02 mA to 30 A	0.15 %		
Specific values	55 Hz, 305 Hz, 1.0 kHz			
	100 µA, 1 mA, 10 mA, 100 mA	0.042 %		
	1 A	0.050 %		
	50 Hz and 140 Hz 10 A and 20 A	0.090 %	Using digital multimeter and current shunt.	Site & Lab



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<b>CAPACITANCE</b>				
Measurement	Up to 2 nF 2 nF to 20 nF 20 nF to 20 µF 20 µF to 2 mF 2 mF to 200 mF	0.6 % 0.22 % 0.12 % 0.16 % 0.19 %		
Generation Specific Values Two- and three-terminal configurations	1 kHz 1 nF 2 nF 5 nF 10 nF 100 nF 1 µF 10 µF	13 pF 14 pF 19 pF 32 pF 300 pF 4.8 nF 6 mF	Generation using capacitors of known value	
Inductance				
Specific Values	1 kHz 1 mH 10 mH 20 mH 30 mH 50 mH 100 mH 1 H 10 H	120 µH 130 µH 180 µH 230 µH 360 µH 600 µH 5.8 mH 58 mH	Generation using inductors of known value	
Frequency				
Measurement	0.1 Hz to 10 Hz 10 Hz to 1 GHz	1.0 in 10 <sup>6</sup> 2.0 in 10 <sup>9</sup>	Using frequency standard and divider.	Lab
Generation	0.1 Hz to 10 Hz 10 Hz to 1 GHz	1.0 in 10 <sup>6</sup> 2.0 in 10 <sup>9</sup>	Using frequency counter.	Lab
Optical Tachometers	6 rpm 60 rpm 600 rpm 1500 rpm 3000 rpm 6000 rpm 15000 rpm 30000 rpm 60000 rpm	0.0070 rpm 0.0070 rpm 0.020 rpm 0.10 rpm 0.10 rpm 0.10 rpm 1.0 rpm 1.0 rpm 1.0 rpm	Using light pulses synchronised to frequencies that correspond to the stated rpm values.	Lab



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<b>CALIBRATION OF 16<sup>TH</sup>/17<sup>TH</sup> EDITION TEST EQUIPMENT</b>				
Insulation Resistance	10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ 100 MΩ to 500 MΩ	35 Ω 350 Ω 4.0 kΩ 350 kΩ 3.5 MΩ 36 MΩ 70 MΩ	Using dedicated calibrator that covers all relevant functions.	Site & Lab
Continuity Resistance	20 mΩ to 1 Ω 1 Ω to 2 Ω 2 Ω to 5 Ω 5 Ω to 10 Ω 10 Ω to 20 Ω 20 Ω to 50 Ω 50 Ω to 100 Ω 100 Ω to 1 kΩ	30 mΩ 41 mΩ 52 mΩ 87 mΩ 150 mΩ 260 mΩ 1.2 Ω 20 Ω		



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<b>CALIBRATION OF 16<sup>TH</sup>/17<sup>TH</sup> EDITION TEST EQUIPMENT (continued)</b>				
Continuity Current	100 mA 200 mA	2.2 mA 3.7 mA		Site & Lab
Insulation Voltage (DC)	50 V 100 V 250 V 500 V 1000 V	1.6 V 2.2 V 3.8 V 6.8 V 13 V		
Loop Resistance at 50 Hz	0.22 Ω 0.33 Ω 0.5 Ω 1 Ω 5 Ω 10 Ω 100 Ω 1000 Ω	43 mΩ 43 mΩ 43 mΩ 43 mΩ 57 mΩ 79 mΩ 600 mΩ 5.8 Ω		Site & Lab
RCD Current at 50 Hz	10 mA 20 mA 30 mA 40 mA 50 mA 100 mA 150 mA 200 mA 300 mA 500 mA 1 A	220 μA 2.2 mA 510 μA 3.1 mA 790 μA 1.5 mA 9.1 mA 12 mA 4.3 mA 7.2 mA 14 mA	At 100 ms At 100 ms At 100 ms At 100 ms At 100 ms At 100 ms At 100 ms At 100 ms At 100 ms At 100 ms At 100 ms	Site & Lab
RCD Current at 50 Hz	100 mA 1000 mA	2.2 mA 14 mA	At 1000 ms At 1000 ms	
RCD Trip Time	20 ms to 390 ms 390 ms to 900 ms	0.97 ms 8.1 ms		Site & Lab
Earth Bond Current	At 50 Hz: 100 mA 10 A 20 A 25 A	11 mA 250 mA 420 mA 510 mA		



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<b>CALIBRATION OF 16<sup>TH</sup>/17<sup>TH</sup> EDITION TEST EQUIPMENT (continued)</b>				Site & Lab
Earth Bond Resistance at 50 Hz	0 Ω to 10 Ω 10 Ω to 100 Ω 1000 Ω	63 mΩ 590 mΩ 5.8 Ω		
Earth Leakage Current Test at 50 Hz	2.0 mA at 240 V 4.7 mA at 240 V 7.7 mA at 240 V	39 μA 85 μA 140 μA		
Flash Voltage Test At 50 Hz	1500 V (Class 1) 3000 V (Class 2)	90 V 180 V		
Flash Current Test At 50 Hz	1 mA at 1500 V (Class 1) 1 mA at 3000 V (Class 2)	63 μA 63 μA		
AC Voltage At 50 Hz	100 V to 400 V	1.1 V		
AC Line Voltage	225 V to 264 V	2.9 V		
<b>Oscilloscope Calibration</b>				
Amplitude	5 mV to 190 mV 190 mV to 190 V	0.89 % 0.30 %	Using signals of known peak to peak voltage.	Site & Lab
Timebase	0.5 ns to 10 ms	0.50 %	Using time markers.	
Bandwidth	50 kHz to 1.1 GHz 1.1 GHz to 3.2 GHz	4.5 % 5.2 %	50 Ω and 1 MΩ 50 Ω Only Results are normally reported in terms of the frequency at which the -3 dB points is reached, relative to a low frequency reference.	
<b>Temperature simulation and measurement</b>				
Calibration of temperature indicators, recorders and similar instruments.	Type K -100 °C -50 °C -20 °C to 100 °C 100 °C to 1000 °C 1000 °C to 1300 °C  Type J -100 °C to 100.0 °C 100.0 °C to 1200 °C	0.32 °C 0.19 °C 0.14 °C 0.24 °C 0.31 °C  0.11 °C 0.23 °C	Using DC voltages corresponding to the equivalent temperature, with the internal cold junction enabled.  Using DC voltages corresponding to the equivalent temperature, with the internal cold junction disabled.	Site & Lab
Ambient Temperature Measurement	18 °C to 22 °C	0.15 °C	Using mercury in glass thermometer; in support of cold junction calibration.	



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<b>PRESSURE</b>			Methods consistent with EURAMET CG17.	
<u>Hydraulic pressure (gauge)</u>				
Calibration of pressure indicating instruments and gauges	0 MPa to 10 MPa 10 MPa to 100 MPa 100 MPa to 400 MPa	4.3 kPa 28 kPa 790 kPa	Calibration of pressure devices with an electrical output may be undertaken	Lab
<u>Gas pressure (gauge)</u>				
Calibration of pressure Indicating instruments and gauges	-80 kPa to -1 kPa -1 kPa to 1 kPa 1 kPa to 10 kPa 10 kPa to 0.5 MPa 0.5 MPa to 1 MPa 1 MPa to 2 MPa 2.0 MPa to 10 MPa	67 Pa 20 Pa 20 Pa 67 Pa 150 Pa 250 Pa 1.0 kPa	Absolute pressure within these ranges can be generated and will attract an additional uncertainty of 60 Pa.	Lab
<b>AIR VELOCITY</b>				
Calibration of Vane Anemometers	0.3 m/s to 0.5 m/s 0.5 m/s to 2 m/s 2 m/s to 5 m/s 5 m/s to 15 m/s 15 m/s to 25 m/s	0.070 m/s 0.094 m/s 0.13 m/s 0.26 m/s 0.53 m/s	Comparison with reference anemometers in a characterised airstream.	Lab
Calibration of Thermal Anemometers by comparison	0.25 m/s to 2 m/s 2 m/s to 5 m/s 5 m/s to 15 m/s 15 m/s to 25 m/s	0.080 m/s 0.14 m/s 0.45 m/s 0.77 m/s		
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$