


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>0725</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<p align="center"><b>Proserv UK Limited</b></p> <p align="center"><b>Issue No: 039      Issue date: 04 July 2025</b></p>	
	<p><b>Proserv Skene Facility</b>  <b>Westhill Industrial Estate</b>  <b>Enterprise Drive</b>  <b>Westhill</b>  <b>AB32 6TQ</b></p>	<p><b>Contact: Mr Kevin Neri</b>  <b>Tel: +44 (0)1224 737113</b>  <b>E-Mail: kevin.neri@proserv.com</b>  <b>Website: www.proserv.com</b></p>
<p align="center"><b>Calibration performed at the above address only</b></p>		

### CALIBRATION AND MEASUREMENT CAPABILITY (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
<b>ELECTRICAL</b>			
<b>DC RESISTANCE</b>			
Measurement	0 mΩ to 100 mΩ 100 mΩ to 1 Ω 1 Ω to 10 Ω 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 100 MΩ to 1 GΩ	120 μΩ/Ω + 21 μΩ 69 μΩ/Ω + 18 μΩ 46 μΩ/Ω + 120 μΩ 35 μΩ/Ω + 0.97 mΩ 35 μΩ/Ω + 9.5 mΩ 35 μΩ/Ω + 95 mΩ 52 μΩ/Ω + 1.00 Ω 110 μΩ/Ω + 13 Ω 180 μΩ/Ω + 190 Ω 0.12 % + 12 kΩ 0.87 % + 1.2 MΩ	Measurement of DC resistance values using 2-wire or 4-wire configurations, as appropriate.
Generation	0 Ω to 10 Ω 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 100 MΩ to 1 GΩ	120 μΩ/Ω + 5.8 mΩ 58 μΩ/Ω + 5.8 mΩ 46 μΩ/Ω + 46 mΩ 46 μΩ/Ω + 470 mΩ 46 μΩ/Ω + 4.7 Ω 120 μΩ/Ω + 48 Ω 400 μΩ/Ω + 490 Ω 0.58 % + 6.4 kΩ 1.2 % + 400 kΩ	Known DC resistance values for application to resistance measuring instruments.
<b>DC VOLTAGE</b>			
Measurement	0 mV to 10 mV 10 mV to 100 mV 100 mV to 300 mV 300 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1 kV	35 μV/V + 4.4 μV 35 μV/V + 5.5 μV 35 μV/V + 12 μV 21 μV/V + 16 μV 21 μV/V + 150 μV 35 μV/V + 1.8 mV 35 μV/V + 19 mV	Measurement of DC voltages provided by power supplies, calibrators and similar instruments.
Generation	0 mV to 200 mV 200 mV to 2 V  2 V to 20 V 20 V to 200 V 200 V to 1020 V	35 μV/V + 4.3 μV 35 μV/V + 9.1 μV  29 μV/V + 81 μV 35 μV/V + 110 mV 35 μV/V + 810 mV	Known DC voltages for application to voltage measuring instruments.



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
<b>ELECTRICAL</b> (continued)			
DC CURRENT			
Measurement	0 $\mu$ A to 10 $\mu$ A 10 $\mu$ A to 100 $\mu$ A 100 $\mu$ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	240 $\mu$ A/A + 15 nA 120 $\mu$ A/A + 24 nA 120 $\mu$ A/A + 97 nA 120 $\mu$ A/A + 1.4 $\mu$ A 120 $\mu$ A/A + 8.3 $\mu$ A 240 $\mu$ A/A + 200 $\mu$ A 0.09 % + 3.9 mA	Measurement of DC currents provided by power supplies, calibrators and similar instruments.
Generation	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 30 A	120 $\mu$ A/A + 35 nA 92 $\mu$ A/A + 57 nA 58 $\mu$ A/A + 430 nA 92 $\mu$ A/A + 4.5 $\mu$ A 170 $\mu$ A/A + 110 $\mu$ A 460 $\mu$ A/A + 24 mA	Known DC currents for application to current measuring instruments.
AC RESISTANCE at 50 Hz	0.05 $\Omega$ to 10 $\Omega$ 10 $\Omega$ to 100 $\Omega$ 100 $\Omega$ to 1 k $\Omega$	0.58 % + 7.6 m $\Omega$ 0.58 % + 19 m $\Omega$ 0.58 % + 35 m $\Omega$	Known AC Resistance values for the calibration of earth bond testers and loop impedance testers.
AC VOLTAGE			
Measurement	40 Hz to 200 Hz 0 mV to 30 mV 30 mV to 300 mV 300 mV to 3 V 3 V to 30 V 30 V to 300 V 40 Hz to 100 Hz 300 V to 1 kV	0.070 % + 80 $\mu$ V 0.070 % + 230 $\mu$ V 0.070 % + 4.9 mV 0.070 % + 49 mV 0.23 % + 200 mV 0.23 % + 1.6 V	Measurement of AC voltages provided by power supplies, calibrators and similar instruments.
Generation	10 Hz to 44 Hz 0 mV to 200 mV 200 mV to 2 V 2 V to 20 V  30 Hz to 44 Hz 20 V to 200 V  44 Hz to 1 kHz 0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 700 V	0.23 % + 87 $\mu$ V 0.23 % + 0.74 mV 0.23 % + 8.3 mV  0.069 % + 130 mV  460 $\mu$ V/V + 48 $\mu$ V 460 $\mu$ V/V + 420 $\mu$ V 400 $\mu$ V/V + 7.0 mV 460 $\mu$ V/V + 120 mV 460 $\mu$ V/V + 370 mV	Known AC voltages for application to voltage measuring instruments. 44 Hz minimum frequency on the 2 V to 20 V range.



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
<b>ELECTRICAL</b> (continued)			
AC VOLTAGE (continued)			
Generation (continued)	<i>1 kHz to 20 kHz</i> 0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V  <i>1 kHz to 10 kHz</i> 200 V to 700 V	0.10 % + 220 $\mu$ V 0.10 % + 2.2 mV 0.081 % + 20 mV 0.10 % + 310 mV  0.17 % + 700 mV	
AC CURRENT			
Measurement	<i>40 Hz to 60 Hz</i> 0 $\mu$ A to 300 $\mu$ A 300 $\mu$ A to 3 mA 3 mA to 30 mA 30 mA to 300 mA 300 mA to 3 A 3 A to 10 A	0.23 % + 0.80 $\mu$ A 0.23 % + 5.0 $\mu$ A 0.23 % + 52 $\mu$ A 0.23 % + 0.51 mA 0.23 % + 2.1mA 0.23 % + 29 mA	Measurement of AC currents provided by power supplies, calibrators and similar instruments.
Generation	<i>40 Hz to 1 kHz</i> 25 $\mu$ 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 30 A	0.12 % + 0.30 $\mu$ A 0.10 % + 1.1 $\mu$ A 0.10 % + 7.7 $\mu$ A 0.10 % + 72 $\mu$ A 0.44 % + 0.70 mA 0.40 % + 58 mA	Known AC currents for application to current measuring instruments.
CAPACITANCE			
Generation	<i>At 1 kHz:</i> 1 nF 10 nF 20 nF 50 nF 100 nF 1 $\mu$ F 10 $\mu$ F	0.026 nF 0.060 nF 0.10 nF 0.25 nF 0.39 nF 0.028 $\mu$ F 0.10 $\mu$ F	Fixed values of capacitance for the calibration of capacitance meters and similar instruments.
FREQUENCY			
Generation	1 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz 100 kHz to 10 MHz	23 $\mu$ Hz/Hz + 0.020 mHz 23 $\mu$ Hz/Hz + 0.20 mHz 23 $\mu$ Hz/Hz + 4.0 mHz 23 $\mu$ Hz/Hz + 20 mHz 23 $\mu$ Hz/Hz + 2.0 Hz	Generation of known frequencies for application to frequency measuring instruments.
Measurement	1 Hz to 100 kHz	14 $\mu$ Hz/Hz + 2.6 Hz	Using frequency meter.



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
<b>17<sup>th</sup> Edition Equipment</b>			Calibrations to support equipment designed for testing to the IET Requirements for Electrical Installations (BS 7671:2008, Amds 1,2 and 3)
Line Voltage	<i>At 50 Hz:</i> 240 V to 250 V	0.23 % + 1.2 V	
Output Voltage	<i>At 50 Hz:</i> 100 V to 400 V	0.20 % + 1.2 V	
Continuity Current	0 mA to 300 mA	2.6 % + 0.80 mA	
Continuity Resistance	0.1 $\Omega$ to 20 $\Omega$	1.2 % + 30 m $\Omega$	
	100 $\Omega$	1.2 % + 30 m $\Omega$	
	1 k $\Omega$	1.2 % + 34 m $\Omega$	
Insulation Resistance	0 $\Omega$ to 20 k $\Omega$	0.35 % + 0.61 $\Omega$	
	20 k $\Omega$ to 100 k $\Omega$	0.35 % + 2.1 $\Omega$	
	100 k $\Omega$ to 600 k $\Omega$	0.35 % + 14 $\Omega$	
	600 k $\Omega$ to 1 M $\Omega$	0.35 % + 23 $\Omega$	
	1 M $\Omega$ to 5 M $\Omega$	0.35% + 0.43 k $\Omega$	
	5 M $\Omega$ to 100 M $\Omega$	3.5 % + 64 k $\Omega$	
	100 M $\Omega$ to 600 M $\Omega$	3.5 % + 4.9 M $\Omega$	
	600 M $\Omega$ to 1 G $\Omega$	3.5 % + 8.1 M $\Omega$	
Insulation Test Voltage	50 V to 1 kV	1.2 % + 1.5 V	
Loop Resistance	0.06 $\Omega$	0.60 % + 4.7 m $\Omega$	
	0.11 $\Omega$	0.60 % + 4.7 m $\Omega$	
	0.22 $\Omega$	0.60 % + 4.8 m $\Omega$	
	0.33 $\Omega$	0.60 % + 4.8 m $\Omega$	
	0.5 $\Omega$	0.60 % + 4.8 m $\Omega$	
	1 $\Omega$	0.60 % + 4.9 m $\Omega$	
	5 $\Omega$	0.60 % + 4.9 m $\Omega$	
	10 $\Omega$	0.60 % + 7.6 m $\Omega$	
	100 $\Omega$	0.60 % + 19 m $\Omega$	
	1 k $\Omega$	0.60 % + 35 m $\Omega$	
PAT Earth Bond Current	0 mA to 100mA	1.7 % + 7.1 mA	
	0.1 A to 10 A	1.7 % + 18 mA	
	10 A to 20 A	1.7 % + 24 mA	
PAT Earth Bond Resistance	0 $\Omega$ to 10 $\Omega$	0.58 % + 7.6 m $\Omega$	
	10 $\Omega$ to 100 $\Omega$	0.58 % + 19 m $\Omega$	
	100 $\Omega$ to 1 k $\Omega$	0.58 % + 35 m $\Omega$	



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<b>17<sup>th</sup> Edition Equipment</b> (continued)			
PAT Insulation Resistance	See <i>Insulation resistance</i> on previous page.	See <i>Insulation resistance</i> on previous page.	
PAT Leakage Current	240 $\mu$ A to 7.7 mA	1.7 % + 9.6 $\mu$ A	
PAT Load Test	At 0.13 kVA	5.8 % + 120 m $\Omega$	
RCD Current	0 mA to 300 mA 0 ms to 190 ms 0 mA to 300mA 190 ms to 5 s 300 mA-2 A 0 ms to 190 ms 300 mA to 2 A 190 ms to 5 s	5.8 % + 840 $\mu$ A 1.4 % + 840 $\mu$ A 5.8 % + 3.0 mA 1.4 % + 3.0 mA	
RCD Time	20ms to 390ms 900ms	5.9 ms 10 ms	
<b>PRESSURE</b>			Methods consistent with EURAMET CG17.
<u>Gas Pressure (gauge)</u>			
Calibration of pressure indicating instruments and gauges	-90 kPa to 0 kPa 0 kPa to 3 MPa 3 MPa to 14 MPa	0.0020 % + 4.0 Pa 0.0036 % + 2.7 kPa 0.0020 % + 3.6 kPa	Calibration of pressure transmitters and transducers with an electrical output may be undertaken.
<u>Hydraulic Pressure (gauge)</u>			
Calibration of pressure indicating instruments and gauges	0 kPa to 600 kPa 600 kPa to 6 MPa 6 MPa to 120 MPa 120 MPa to 413 MPa	0.0082 % + 0.90 kPa 0.0079 % 0.0077 % 0.020 %	Absolute pressures across these ranges can be generated which will attract an additional 600 Pa uncertainty.
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$