


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> CALIBRATION</p> <p><b>20765</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<p><b>The Equipment Calibration Business Ltd</b></p> <p><b>Issue No: 010    Issue date: 29 April 2026</b></p>	
	<p><b>1A Golf Link Villas</b> <b>Downley Common</b> <b>High Wycombe</b> <b>Buckinghamshire</b> <b>HP13 5YH</b> <b>United Kingdom</b></p>	<p><b>Contact: Mr Richard Harper</b> <b>Tel: +44 (0) 1491 822691</b> <b>E-Mail: <a href="mailto:ecb@equipment-calibration.com">ecb@equipment-calibration.com</a></b> <b>Website: <a href="http://www.equipment-calibration.com">www.equipment-calibration.com</a></b></p>
<p><b>Calibration performed by the Organisation at the locations specified</b></p>		

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

#### Laboratory locations:

Location details		Activity	Location code
<p><b>Address</b> The Equipment Calibration Business The Annex W-17 Howbery Business Park Wallingford OX10 8BA United Kingdom</p>	<p><b>Local contact</b> Mr Richard Harper  Tel: +44 (0)01491 822691 E-Mail: <a href="mailto:Richard-harper@equipment-calibration.com">Richard-harper@equipment-calibration.com</a> Website: <a href="http://www.equipment-calibration.com">www.equipment-calibration.com</a></p>	<p><b>Electrical calibration:</b>  Calibration of EMC-related test and measurement equipment.</p>	P

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

Location details		Activity	Location code
<p><b>Address</b> The customer's 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><b>Local contact</b> Mr Richard Harper  Tel: +44 (0)01491 822691 Mobile: +44 (0)7380 950803 E-Mail: <a href="mailto:Richard-harper@equipment-calibration.com">Richard-harper@equipment-calibration.com</a> Website: <a href="http://www.equipment-calibration.com">www.equipment-calibration.com</a></p>	<p><b>Electrical calibration:</b>  Calibration of EMC-related test and measurement equipment.</p>	S

NOTE: Where EN Standards have exact equivalents in IEC, or BS EN Standards, these are also included in the accreditation.



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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 CALIBRATION</b>				
All electrical measurements are carried out using the method of direct comparison or transfer to laboratory reference standards unless otherwise determined in the remark's column. The measurement and generation headings in the first column declare the laboratory's ability to either measure outputs of submitted test items or to generate values as a stimulus for test items which measure.				
DC RESISTANCE Measurement	0 $\Omega$ to 100 $\Omega$	0.014 $\Omega$		P and S
	100 $\Omega$ to 1 k $\Omega$	0.11 $\Omega$		
	1 k $\Omega$ to 10 k $\Omega$	1.1 $\Omega$		
	10 k $\Omega$ to 100 k $\Omega$	11 $\Omega$		
	100 k $\Omega$ to 1 M $\Omega$	110 $\Omega$		
	1 M $\Omega$ to 10 M $\Omega$	2.2 k $\Omega$		
	10 M $\Omega$ to 100 M $\Omega$	0.83 M $\Omega$		
DC VOLTAGE Measurement	0 mV to 100 mV	8.7 $\mu$ V		P and S
	100 mV to 1 V	48 $\mu$ V		
	1 V to 10 V	410 $\mu$ V		
	10 V to 100 V	5.2 mV		
	100 V to 1000 V	56 mV		
DC CURRENT Measurement	0 $\mu$ A to 100 $\mu$ A	0.077 $\mu$ A		P and S
	100 $\mu$ A to 1 mA	0.57 $\mu$ A		
	1 mA to 10 mA	7.1 $\mu$ A		
	10 mA to 100 mA	56 $\mu$ A		
	100 mA to 1 A	1.1 mA		
	1 A to 3 A 3 A to 10 A	6.7 mA 13 mA		
AC VOLTAGE Measurement	1 mV to 100 mV			P and S
	10 Hz to 20 kHz	92 $\mu$ V		
	20 kHz to 50 kHz 50 kHz to 100 kHz	170 mV 690 mV		
	100 mV to 1 V			P and S
	10 Hz to 20 kHz	920 $\mu$ V		
	20 kHz to 50 kHz 50 kHz to 100 kHz	1.7 mV 7.0 mV		
	1 V to 10 V			P and S
	10 Hz to 20 kHz	9.2 $\mu$ V		
	20 kHz to 50 kHz 50 kHz to 100 kHz	17 mV 70 mV		
	10 V to 100 V			P and S
	10 Hz to 20 kHz	92 mV		
	20 kHz to 50 kHz 50 kHz to 100 kHz	170 mV 700 mV		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
AC VOLTAGE Measurement (continued)	100 V to 750 V 10 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	680 mV 1.3 V 5.2 V	AC Voltage measurement in this range is limited to a maximum $8 \times 10^7$ Volt- Hertz.	P and S
AC CURRENT Measurement	0 $\mu$ A to 100 $\mu$ A 10 Hz to 5 kHz	140 nA		
	100 $\mu$ A to 1 mA 10 Hz to 5 kHz	1.4 $\mu$ A		
	1 mA to 10 mA 10 Hz to 5 kHz	15 $\mu$ A		
	10 mA to 100 mA 10 Hz to 5 kHz	140 $\mu$ A		
	100 mA to 1 A 10 Hz to 5 kHz	1.4 mA		
	1 A to 3 A 10 Hz to 5 kHz	8.2 mA		
	3 A to 10 A 10 Hz to 5 kHz	19 mA		P and S
CAPACITANCE Measurement	0 nF to 1 nF 1 nF to 10 nF 10 nF to 100 nF 100 nF to 1 $\mu$ F 1 $\mu$ F to 10 $\mu$ F 10 $\mu$ F to 100 $\mu$ F	1.0 pF 5.1 pF 51 pF 510 pF 5.1 nF 51 nF		
FREQUENCY Measurement	10 Hz to 100 Hz 100 Hz to 300 Hz	0.031 % of reading 0.010 % of reading		
FREQUENCY Measurement	10 mHz to 20 kHz 20 kHz to 200 kHz 200 kHz to 1 MHz 1 MHz to 10 MHz 10 MHz to 100 MHz 100 MHz to 120 MHz	15 $\mu$ Hz/Hz 30 $\mu$ Hz/Hz 120 $\mu$ Hz/Hz 0.12 % 1.2 % 1.8 %	Using a digital sampling oscilloscope	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<b>TRANSIENT GENERATORS</b>				
PULSE VOLTAGE	±1 V to ±15 kV	1.6 % of measured Voltage	<p>Using a Digital Sampling Oscilloscope with Voltage or Current Probes as appropriate, with due consideration to EN 60469:2013.</p> <p>For the calibration of Transient Generators with due consideration to EN 60469:2013 using a Digital Sampling Oscilloscope with Voltage or Current Probes as appropriate and in accordance with their respective Operators Manuals.</p> <p>Relative to power line and using a Digital Sampling Oscilloscope and a HV probe.</p>	P and S
PULSE ABERRATIONS Peak voltage, overshoot and undershoot	±10 V to ±15 kV	1.6 % of measured Voltage		
PULSE CURRENT	±1 A to ±5 kA	1.7 % of measured Current		
PULSE ABERRATIONS Peak current, overshoot and undershoot	±1 A to ±5 kA	1.7 % of measured Current		
PULSE RISETIME				
Voltage	1 ns to 1 µs 1 µs to 20 µs 20 µs to 100 s	0.12 ns 0.26 ns 13 µs/s		
Current	25 ns to 100 ns 100 ns to 500 ns 500 ns to 10 µs 10 µs to 20 µs 20 µs to 100 s	6.7 ns to 3.2 ns 3.2 ns to 0.66 ns 0.66 ns to 0.17 ns 0.17 ns to 0.26 ns 13 µs/s		
PULSE DURATION Voltage and current	1 ns to 1 µs 1 µs to 20 µs 20 µs to 100 s	0.12 ns 0.26 ns 13 µs/s		
PHASE ANGLE	0° to 360°	0.8°		
<b>ESD GENERATORS</b>				
DC Voltage	1 kV to 32 kV	0.48 % of measured Voltage	<p>For the calibration of ESD generators to EN 61000-4-2:2009, EN IEC 61000-4-2:2025, &amp; ISO 10605:2023, including instruments designed to comply with earlier versions of these standards.</p> <p>The maximum uncertainty permitted by the standard is 15 % at the standardized value of 800 ps</p>	P and S
Voltage Hold Time	1 s to 100 s	27 ms		
Transition Time	300 ps to 1500 ps	24 ps		
Peak Current	0.1 A to 150 A	1.64 %		
Second Peak Current	0.1 A to 150 A	1.68 %		
Current at 30 ns	0.1 A to 150 A	1.80 %		
Current at 60 ns	0.1 A to 150 A	1.80 %		
Current at 65 ns	0.1 A to 150 A	1.80 %		
Current at 130 ns	0.1 A to 150 A	1.80 %		
Current at 180 ns	0.1 A to 150 A	2.19 %		
Current at 400 ns	0.1 A to 150 A	2.19 %		
Current at 360 ns	0.1 A to 150 A	2.53 %		
Current at 800 ns	0.1 A to 150 A	2.53 %		



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<b>EFTB GENERATORS</b>				P and S
Peak Voltage into 50 $\Omega$	$\pm 1$ V to $\pm 7.2$ kV	2.2 % of measured Voltage	For the calibration of EFTB Generators to EN 61000-4-4:2012 ISO 7637-2:2011 including instruments designed to comply with earlier versions of these standards.	
Peak Voltage into 1 k $\Omega$	$\pm 1$ V to $\pm 7.2$ kV	3.3 % of measured Voltage		
Rise Time	1 ns to 10 ns	0.12 ns		
Pulse Width	10 ns to 50 $\mu$ s	0.59 ns		
Burst Duration	50 $\mu$ s to 50 ms	0.58 $\mu$ s		
Burst Period	50 ms to 500 ms	6.1 $\mu$ s		
Repetition Rate	1 Hz to 150 kHz	0.040 % of the measured frequency		
<b>SURGE GENERATORS</b>				P and S
Open Circuit Voltage	$\pm 1$ V to $\pm 25$ kV	1.6 % of measured Voltage	For the calibration of Surge Generators to EN 61000-4-5:2014/A1, ISO 7637-2:2011 ISO 16750-2:2012 and earlier versions of these standards.	
Voltage Undershoot	0 to 60 %	1.6 % of measured Voltage		
Voltage Front Time	100 ns to 20 $\mu$ s	2.5 ns		
Voltage Duration	1 $\mu$ s to 1 ms	365 ns		
S/C Current Peak	$\pm 1$ A to $\pm 5$ kA	1.7 % of measured Current		
Current Undershoot	0 % to 60 %	1.7 % of measured Current		
Current Front Time	100 ns to 20 $\mu$ s	35 ns		
Current Duration	1 $\mu$ s to 500 $\mu$ s	89 ns		
Phase Angle	0° to 360°	0.8°		
Output Impedance	0.1 $\Omega$ to 500 $\Omega$	2.3 %		
<b>VOLTAGE DIPS AND INTERRUPTS (AC / DC)</b>				P and S
AC Voltage 50 Hz / DC Voltage	100 mV to 750 V	0.26 % of measured Voltage	For the calibration of Voltage Dips and Interrupt Generators to EN 61000-4-11:2020, EN 61000-4-34:2007 +A1:2009 EN 61000-4-29:2001 and earlier versions of these standards.	
AC Frequency	10 Hz to 100 Hz	0.040 %		
Dip Levels	0 % to 100 %	0.27 % of measured Voltage		
Rise and Fall Times	500 ns to 10 $\mu$ s	0.20 ns		
Dip Durations	1 ms to 10 s	12 $\mu$ s/S		
Over / Undershoot	0 % to 100 %	2.1 % of measured Voltage		
Phase Angle	0° to 360°	0.20°		
Inrush Current	1 A to 1000 A	3.4 % of measured inrush current		



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<b>POWER FREQUENCY MAGNETIC FIELDS</b>				
AC Voltage 50 Hz	100 mV to 750 V	0.27 %	For the calibration of Power Frequency Magnetic fields test Systems to EN 61000-4-8:2010 and earlier versions of these standards.	P and S
AC Frequency	50 Hz	0.12 Hz		
Loop Current	1 A to 3.45 A 3.45 A to 45.5 A 45.5 A to 400 A 400 A to 1 kA 1 kA to 2 kA	0.15 A 0.15 A to 0.55 A 0.55 A to 4.8 A 8.2 A to 18 A 18 A to 35 A		
Total Harmonic Distortion (THD)	0 % to 100 %	0.26 % of measured THD		
Magnetic Field	50 A/m to 150 A/m	2.4 %		
Coil Factor	0 to 1	2.7 % of the measured coil factor		
<b>IMPULSE MAGNETIC FIELDS</b>				
S/C Current Peak	±1.0 A to ±2500 A	2.1 % of the measured current	For the calibration of Impulse Magnetic Fields Test system to EN 61000-4-9:2016 and earlier versions of these standards	P and S
Current Undershoot	0 % to 60 %	2.1 % of the measured current		
Current Front Time	100 ns to 20 µs	0.40 ns		
Current Duration	1 µs to 500 µs	5.8 ns		
Phase Angle	0° to 360°	0.20°		
<b>RING WAVE</b>				
Open Circuit Voltage	±10 V to ±7.2 kV	2.1 %	For the calibration of Ring Wave Immunity Test Generators to EN 61000-4-12:2017 and earlier versions of these standards.	P and S
Voltage Rise Time	100 ns to 20 µs	0.30 ns		
Oscillation Frequency	50 kHz to 150 kHz	21 µHz/Hz		
Voltage Decay Ratio	0.1 to 1.5	0.50 %		
S/C Current Peak	±1.0 A to ±1000 A	2.1 %		
Current Rise Time	100 ns to 20 µs	2.0 ns		
Phase Angle	0° to 360°	0.20°		
Impedance	1 Ω to 100 Ω	3.0 %		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<b>LINE IMPEDANCE STABILISATION NETWORKS &amp; COUPLING / DECOUPLING NETWORKS</b>				
<b>IMPEDANCE MAGNITUDE</b>  1 kHz to 400 MHz	0 Ω to 10 Ω 10 Ω to 20 Ω 20 Ω to 30 Ω 30 Ω to 50 Ω 50 Ω to 70 Ω 70 Ω to 100 Ω 100 Ω to 150 Ω 150 Ω to 200 Ω	5.55 % 3.44 % 2.75 % 1.81 % 1.99 % 3.51 % 4.09 % 5.21 %	For the calibration of Line Impedance Stabilizing Networks (LISN's) and Coupling / Decoupling Networks (CDN's)  Where the CMC is expressed as a "%" this indicates that the uncertainty is expressed as a percentage of the measured value.	P and S
<b>VOLTAGE DIVISION FACTOR</b>  1 kHz to 400 MHz	0 dB to 40 dB 40 dB to 50 dB	0.10 dB to 0.12 dB 0.12 dB to 0.17 dB		P and S
<b>IMPEDANCE PHASE</b>  1 kHz to 400 MHz	+50 to - 50 degrees	1.9 degrees		P and S
<b>ISOLATION/DECOUPLING LOSS</b>  1 kHz to 400 MHz	0 dB to 90 dB	2.9 dB		P and S
<b>INSERTION LOSS</b>  1 kHz to 8.5 GHz	0 dB to 20 dB 20 dB to 40 dB 40 dB to 50 dB 50 dB to 60 dB 60 dB to 70 dB 70 dB to 80 dB 80 dB to 90 dB	0.090 dB to 0.096 dB 0.096 dB to 0.12 dB 0.12 dB to 0.17 dB 0.17 dB to 0.35 dB 0.35 dB to 1.0 dB 1.0 dB to 3.1 dB 3.1 dB to 9.5 dB	Insertion/Transmission Loss measurement applies to RF cables, attenuators, pulse limiters, current probes & jigs or similar	P and S
<b>VOLTAGE REFLECTION COEFFICIENT (VRC)</b>  1 kHz to 3 GHz 3 GHz to 6 GHz 6 GHz to 8.5 GHz	. For VRC = 0.000 to 1.000 For VRC = 0.000 to 1.000 For VRC = 0.000 to 1.000	0.022 to 0.026 0.023 to 0.032 0.024 to 0.043	Results can be displayed as VRC, VSWR, and Return Loss (dB)	P and 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:  $Q[a, b] = [a^2 + b^2]^{1/2}$