


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION</p> <p>0666</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Allied Aerosystems Ltd</h3> <p>Issue No: 064 Issue date: 18 December 2025</p>	
	<p>Avionic and Metrology Centre Unit G1/2 Treforest Industrial Estate Pontypridd CF37 5YL</p>	<p>Contact: Mr P Ashurst Tel: +44 (0)1443 849970 Fax: +44 (0)1443 849988 E-Mail: phillip.ashurst@allied-aerosystems.com Website: www.allied-aerosystems.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 locations:

Location details	Activity	Location code
<p>Address Avionic and Metrology Centre Unit G1/2 Treforest Industrial Estate Pontypridd CF37 5YL</p> <p>Local contact Mr P Ashurst Tel: +44 (0)1443 849970 Fax: +44 (0)1443 849988 E-Mail: phillip.ashurst@allied-aerosystems.com</p>	<p>Electrical, DC and LF Electrical, RF Rotational speed Time</p>	Lab 1
<p>Address Units 1-6, Moy Road Industrial Estate Taffs Well Cardiff CF15 7QR</p> <p>Local contact All correspondence and deliveries are to be made to the above address</p>	<p>Dimensional Torque Mass Temperature Relative Humidity Pressure Surface plates and tables Accelerometry</p>	Lab 2

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Customers' 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>Non-automatic weighing instruments Surface plates and tables Temperature Pressure</p>	Site



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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 VOLTAGE	0 mV to 220 mV 220 mV to 2.2 V 2.2 V to 11 V 11 V to 22 V 22 V to 220 V 220 V to 1100 V	Q[8.4 μ V/V, 0.60 μ V] Q[7.0 μ V/V, 1.0 μ V] Q[7.0 μ V/V, 3.6 μ V] Q[7.0 μ V/V, 6.6 μ V] Q[8.0 μ V/V, 80 μ V] Q[9.0 μ V/V, 560 μ V]	Using multifunction calibrator.	Lab 1
	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1 kV	Q[5.2 μ V/V, 1.2 μ V] Q[3.3 μ V/V, 0.59 μ V] Q[3.2 μ V/V, 5.1 μ V] Q[4.7 μ V/V, 51 μ V] Q[15 μ V/V, 0.29 mV]	Using digital multimeter	
DC CURRENT	0 μ A to 220 μ A 220 μ A 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 11 A 11 A to 20 A 20 A to 100 A	Q[50 μ A/A, 8.0 nA] Q[50 μ A/A, 8.0 nA] Q[50 μ A/A, 100 nA] Q[60 μ A/A, 800 nA] Q[81 μ A/A, 25 μ A] Q[0.080 %, 0.39 mA] Q[0.10 %, 4.6 mA] Q[0.10 %, 23 mA]	Using multifunction calibrator.	Lab 1
	11 A to 16.5 A 16.5 A to 150 A 150 A to 1025 A	Q[0.30 %, 2.4 mA] Q[0.30 %, 18 mA] Q[0.30 %, 61 mA]	Simulated current using a multi turn coil, for the calibration of clamp-on ammeters and similar devices.	
	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 2.0 A to 20 A 20 A to 100 A	Q[10 μ A/A, 0.48 nA] Q[10 μ A/A, 4.7 nA] Q[10 μ A/A, 47 nA] Q[39 μ A/A, 0.93 μ A] Q[200 μ A/A, 16 μ A] Q[440 μ A/A, 51 μ A] 0.11 %	Using digital multimeter.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL CALIBRATION (continued)				
DC RESISTANCE				Lab 1
Specific values	0 Ω 1 m Ω 10 m Ω 100 m Ω 1.0 Ω 1.9 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1.0 k Ω 1.9 k Ω 10 k Ω 19 k Ω 100 k Ω 190 k Ω 1.0 M Ω 1.9 M Ω 10 M Ω 19 M Ω 100 M Ω	59 $\mu\Omega$ 100 $\mu\Omega/\Omega$ 100 $\mu\Omega/\Omega$ 100 $\mu\Omega/\Omega$ 110 $\mu\Omega/\Omega$ 98 $\mu\Omega/\Omega$ 31 $\mu\Omega/\Omega$ 37 $\mu\Omega/\Omega$ 18 $\mu\Omega/\Omega$ 18 $\mu\Omega/\Omega$ 14 $\mu\Omega/\Omega$ 14 $\mu\Omega/\Omega$ 12 $\mu\Omega/\Omega$ 13 $\mu\Omega/\Omega$ 15 $\mu\Omega/\Omega$ 16 $\mu\Omega/\Omega$ 25 $\mu\Omega/\Omega$ 30 $\mu\Omega/\Omega$ 54 $\mu\Omega/\Omega$ 68 $\mu\Omega/\Omega$ 110 $\mu\Omega/\Omega$	Known values of DC resistance for application to measuring instruments in a 2- wire or 4-wire configuration, as appropriate.	
	0 Ω to 2 Ω 2 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2 k Ω 2 k Ω to 20 k Ω 20 k Ω to 200 k Ω 200 k Ω to 2 M Ω 2 M Ω to 20 M Ω 20 M Ω to 200 M Ω 200 M Ω to 2 G Ω	Q[12 $\mu\Omega/\Omega$, 5.0 $\mu\Omega$] Q[8.5 $\mu\Omega/\Omega$, 21 $\mu\Omega$] Q[8.5 $\mu\Omega/\Omega$, 70 $\mu\Omega$] Q[8.4 $\mu\Omega/\Omega$, 0.62 m Ω] Q[8.4 $\mu\Omega/\Omega$, 6.2 m Ω] Q[8.6 $\mu\Omega/\Omega$, 62 m Ω] Q[9.9 $\mu\Omega/\Omega$, 1.4 Ω] Q[16 $\mu\Omega/\Omega$, 120 Ω] Q[68 $\mu\Omega/\Omega$, 670 Ω] Q[0.060 %, 1.2 M Ω]	Using digital multimeter; for the calibration of resistors and resistance boxes.	
AC VOLTAGE	10 Hz to 20 Hz 1 mV to 2.2 mV 2.2 mV to 22 mV 22 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V 22 V to 220 V 20 Hz to 40 Hz 1 mV to 2.2 mV 2.2 mV to 22 mV 22 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V 22 V to 220 V	Q[0.071 %, 4.6 μV] Q[0.057 %, 5.0 μV] Q[0.057 %, 13 μV] Q[0.051 %, 80 μV] Q[0.051 %, 810 μV] Q[0.051 %, 8.1 mV] Q[0.050 %, 4.5 μV] Q[0.023 %, 5.0 μV] Q[0.022 %, 8.0 μV] Q[0.017 %, 25 μV] Q[0.017 %, 250 μV] Q[0.017 %, 2.6 mV]	Using multifunction calibrator.	Lab 1



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL CALIBRATION (continued) AC VOLTAGE (continued)	<p><i>40 Hz to 20 kHz</i> 1 mV to 2.2 mV 2.2 mV to 22 mV 22 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V 22 V to 220 V</p> <p><i>50 Hz to 1 kHz</i> 220 V to 1100 V</p> <p><i>20 kHz to 50 kHz</i> 1 mV to 2.2 mV 2.2 mV to 22 mV 22 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V 22 V to 220 V</p> <p><i>50 kHz to 100 kHz</i> 1 mV to 2.2 mV 2.2 mV to 22 mV 22 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V 22 V to 220 V</p> <p><i>100 kHz to 300 kHz</i> 1 mV to 2.2 mV 2.2 mV to 22 mV 22 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V</p> <p><i>300 kHz to 500 kHz</i> 1 mV to 2.2 mV 2.2 mV to 22 mV 22 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V</p> <p><i>500 kHz to 1 MHz</i> 1 mV to 2.2 mV 2.2 mV to 22 mV 22 mV to 220 mV 220 mV to 2.2 V 2.2 V to 22 V</p>	<p>Q[0.046 %, 4.5 μV] Q[0.014 %, 5.0 μV] Q[0.0090 %, 1.0 μV] Q[0.0090 %, 7.0 μV] Q[0.0090 %, 62 μV] Q[0.0090 %, 1.0 mV]</p> <p>Q[0.010 %, 5.0 mV]</p> <p>Q[0.058 %, 6.0 μV] Q[0.039 %, 7.0 μV] Q[0.033 %, 8.0 μV] Q[0.013 %, 17 μV] Q[0.013 %, 170 μV] Q[0.023 %, 3.5 mV]</p> <p>Q[0.10 %, 7.0 μV] Q[0.090 %, 7.0 μV] Q[0.090 %, 25 μV] Q[0.025 %, 70 μV] Q[0.025 %, 350 μV] Q[0.050 %, 8.0 mV]</p> <p>Q[0.12 %, 13 μV] Q[0.11 %, 12 μV] Q[0.11 %, 25 μV] Q[0.050 %, 140 μV] Q[0.050 %, 1.5 mV]</p> <p>Q[0.18 %, 25 μV] Q[0.17 %, 25 μV] Q[0.17 %, 35 μV] Q[0.11 %, 360 μV] Q[0.13 %, 4.3 mV]</p> <p>Q[0.35 %, 25 μV] Q[0.34 %, 25 μV] Q[0.34 %, 80 μV] Q[0.22 %, 850 μV] Q[0.27 %, 8.5 mV]</p>	Using multifunction calibrator.	Lab 1



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
AC VOLTAGE (continued)	<p><i>10 Hz to 20 Hz</i> 1.3 μV to 2.2 mV 2.2 mV to 7 mV 7 mV to 22 mV 22 mV to 70 mV 70 mV to 220 mV 220 mV to 700 mV 700 mV to 2.2 V 2.2 V to 7 V 7 V to 22 V 22 V to 70 V 70 V to 220 V</p> <p><i>20 Hz to 40 Hz</i> 2 μV to 2.2 mV 2.2 mV to 7 mV 7 mV to 22 mV 22 mV to 70 mV 70 mV to 220 mV 220 mV to 700 mV 700 mV to 2.2 V 2.2 V to 7 V 7 V to 22 V 22 V to 70 V 70 V to 220 V</p> <p><i>40 Hz to 20 kHz</i> 1.3 μV to 2.2 mV 2.2 mV to 7 mV 7 mV to 22 mV 22 mV to 70 mV 70 mV to 220 mV 220 mV to 700 mV 700 mV to 2.2 V 2.2 V to 7 V 7 V to 22 V 22 V to 70 V 70 V to 220 V</p> <p><i>100 Hz to 20 kHz</i> 220 V to 700 V 700 V to 1100</p> <p><i>20 kHz to 50 kHz</i> 1.8 μV to 2.2 mV 2.2 mV to 7 mV 7 mV to 22 mV 22 mV to 70 mV 70 mV to 220 mV 220 mV to 700 mV 700 mV to 2.2 V 2.2 V to 7 V 7 V to 22 V 22 V to 70 V 70 V to 220 V 220 V to 700 V</p>	<p>Q[0.010 %, 1.3 μV] Q[70 μV/V, 1.8 μV] Q[60 μV/V, 2.1 μV] Q[50 μV/V, 1.5 μV] Q[50 μV/V, 2.4 μV] Q[50 μV/V, 11 μV] Q[50 μV/V, 23 μV] Q[50 μV/V, 0.11 mV] Q[50 μV/V, 0.3 mV] Q[50 μV/V, 1.7 mV] Q[50 μV/V, 3.7 mV]</p> <p>Q[50 μV/V, 2.0 μV] Q[50 μV/V, 2.2 μV] Q[50 μV/V, 2.1 μV] Q[30 μV/V, 2.2 μV] Q[30 μV/V, 3 μV] Q[30 μV/V, 10.5 μV] Q[30 μV/V, 14.6 μV] Q[30 μV/V, 30.3 μV] Q[30 μV/V, 0.28 mV] Q[30 μV/V, 0.55 mV] Q[30 μV/V, 2.0 mV]</p> <p>Q[40 μV/V, 1.3 μV] Q[30 μV/V, 1.5 μV] Q[30 μV/V, 1.8 μV] Q[20 μV/V, 1.7 μV] Q[20 μV/V, 2.5 μV] Q[20 μV/V, 13 μV] Q[20 μV/V, 12 μV] Q[20 μV/V, 44 μV] Q[20 μV/V, 81 μV] Q[20 μV/V, 0.13 mV] Q[40 μV/V, 0.90 mV]</p> <p>Q[20 μV/V, 12 mV] Q[20 μV/V, 20 mV]</p> <p>Q[50 μV/V, 1.8 μV] Q[40 μV/V, 1.9 μV] Q[40 μV/V, 2.1 μV] Q[30 μV/V, 3.2 μV] Q[20 μV/V, 4 μV] Q[20 μV/V, 7 μV] Q[20 μV/V, 15 μV] Q[20 μV/V, 25 μV] Q[20 μV/V, 41 μV] Q[30 μV/V, 0.61 mV] Q[30 μV/V, 1.9 mV] Q[90 μV/V, 15 mV]</p>	Using digital multimeter.	Lab 1



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ELECTRICAL CALIBRATION (continued) AC VOLTAGE (continued)	<p><i>50 kHz to 100 kHz</i> 2.2 μV to 2.2 mV 2.2 mV to 7 mV 7 mV to 22 mV 22 mV to 70 mV 70 mV to 220 mV 220 mV to 700 mV 700 mV to 2.2 V 2.2 V to 7 V 7 V to 22 V 22 V to 70 V 70 V to 220 V 220 V to 700 V</p> <p><i>100 kHz to 300 kHz</i> 5.7 μV to 2.2 mV 2.2 mV to 7 mV 7 mV to 22 mV 22 mV to 70 mV 70 mV to 220 mV 220 mV to 700 mV 700 mV to 2.2 V 2.2 V to 7 V 7 V to 22 V 22 V to 70 V</p> <p><i>300 kHz to 500 kHz</i> 6 μV to 2.2 mV 2.2 mV to 7 mV 7 mV to 22 mV 22 mV to 70 mV 70 mV to 220 mV 220 mV to 700 mV 700 mV to 2.2 V 2.2 V to 7 V 7 V to 22 V</p> <p><i>500 kHz to 1 MHz</i> 7 μV to 2.2 mV 2.2 mV to 7 mV 7 mV to 22 mV 22 mV to 70 mV 70 mV to 220 mV 220 mV to 700 mV 700 mV to 2.2 V 2.2 V to 7 V 7 V to 22 V</p>	<p>Q[70 μV/V, 2.2 μV] Q[50 μV/V, 2.2 μV] Q[70 μV/V, 2.5 μV] Q[70 μV/V, 4.4 μV] Q[50 μV/V, 9.3 μV] Q[50 μV/V, 3.7 μV] Q[50 μV/V, 25 μV] Q[60 μV/V, 31 μV] Q[60 μV/V, 21 μV] Q[60 μV/V, 4.0 mV] Q[60 μV/V, 9.1 mV] Q[0.040 %, 17 mV]</p> <p>Q[0.017 %, 5.7 μV] Q[0.010 %, 5.8 μV] Q[0.0090 %, 5.8 μV] Q[0.010 %, 6.9 μV] Q[0.0090 %, 11 μV] Q[0.0090 %, 9 μV] Q[0.0080 %, 24 μV] Q[0.012 %, 67 μV] Q[0.012 %, 21 μV] Q[0.012 %, 7.0 mV]</p> <p>Q[0.051 %, 6.0 μV] Q[0.032 %, 7.0 μV] Q[0.027 %, 9.0 μV] Q[0.023 %, 22 μV] Q[0.022 %, 9.0 μV] Q[0.022 %, 34 μV] Q[0.019 %, 17 μV] Q[0.030 %, 0.18 mV] Q[0.030 %, 0.20 mV]</p> <p>Q[0.19 %, 7.0 μV] Q[0.14 %, 7.0 μV] Q[0.11 %, 9.0 μV] Q[0.11 %, 21 μV] Q[0.080 %, 7.0 μV] Q[0.080 %, 33 μV] Q[0.070 %, 21 μV] Q[0.10 %, 0.34 mV] Q[0.10 %, 0.26 mV]</p>	<p>Using digital multimeter.</p> <p>Using digital multimeter.</p>	Lab 1



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL CALIBRATION (continued) AC CURRENT	<p><i>45 Hz to 1 kHz</i> 22 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</p> <p><i>45 Hz to 100 Hz</i> 2.2 A to 11 A 11 A to 20 A 20 A to 100 A</p> <p><i>100 Hz to 1 kHz</i> 2.2 A to 11 A 11 A to 20 A</p> <p><i>45 Hz to 65 Hz</i> 11 A to 16.5 A 16.5 A to 150 A 150 A to 1025 A</p> <p><i>65 Hz to 440 Hz</i> 11 A to 16.5 A 16.5 A to 150 A 150 A to 1025 A</p> <p><i>1 kHz to 5 kHz</i> 22 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</p> <p><i>5 kHz to 10 kHz</i> 22 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</p> <p><i>50 Hz to 1 kHz</i> 1 μA to 200 μA 200 μA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A</p> <p><i>50 Hz to 60 Hz</i> 20 A to 100 A</p>	<p>Q[0.021 %, 16 nA] Q[0.018 %, 35 nA] Q[0.014 %, 370 nA] Q[0.014 %, 3.6 μA] Q[0.065 %, 42 μA]</p> <p>Q[0.070 %, 2.4 mA] Q[0.14 %, 5.8 mA] Q[0.27 %, 120 mA]</p> <p>Q[0.070 %, 2.4 mA] Q[0.17 %, 24 mA]</p> <p>Q[0.40 %, 3.5 mA] Q[0.40 %, 29 mA] Q[0.40 %, 110 mA]</p> <p>Q[1.0 %, 4.0 mA] Q[1.0 %, 32 mA] Q[1.0 %, 120 mA]</p> <p>Q[0.064 %, 40 nA] Q[0.062 %, 400 nA] Q[0.060 %, 4.0 μA] Q[0.060 %, 40 μA] Q[0.075 %, 80 μA]</p> <p>Q[0.17 %, 120 nA] Q[0.17 %, 800 nA] Q[0.16 %, 8.0 μA] Q[0.16 %, 80 μA] Q[0.85 %, 160 μA]</p> <p>Q[0.034 %, 26 nA] Q[0.033 %, 0.26 μA] Q[0.033 %, 2.6 μA] Q[0.034 %, 26 μA] Q[0.078 %, 0.26 mA] Q[0.11 %, 2.6 mA]</p> <p>0.17 %</p>	<p>Using multifunction calibrator.</p> <p>Simulated current using a multi turn coil, for the calibration of clamp-on ammeters and similar devices.</p> <p>Simulated current using a multi turn coil, for the calibration of clamp-on ammeters and similar devices.</p> <p>Using digital multimeter.</p>	Lab 1



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL CALIBRATION (continued)				
AC CURRENT (continued)	<i>1 kHz to 5 kHz</i> 1 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 2 A to 20 A <i>5 kHz to 10 kHz</i> 1 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 2 A to 20 A	Q[0.036 %, 26 nA] Q[0.033 %, 0.26 μ A] Q[0.033 %, 6.4 μ A] Q[0.034 %, 26 μ A] Q[0.090 %, 0.27 mA] Q[0.33 %, 2.6 mA]	Using digital multimeter.	Lab 1
DC POWER				
0.1 mW to 100 kW	33 mV to 1020 V 3.3 mA to 9 mA 9 mA to 33 mA 33 mA to 90 mA 90 mA to 330 mA 330 mA to 900 mA 900 mA to 2.2 A 2.2 A to 4.5 A 4.5 A to 11 A 11 A to 20.5 A 20.5 A to 100 A	0.040 % 0.030 % 0.040 % 0.030 % 0.080 % 0.060 % 0.12 % 0.090 % 0.13 % 0.13 %	For voltages in the range 33 mV to 1020 V.	Lab 1
0.1 W to 1 MW	10 A to 16.5 A 16.5 A to 110 A 110 A to 150 A 150 A to 1000 A	0.25 % 0.27 % 0.28 % 0.31 %	For voltages in the range 33 mV to 1020 V; clamp meter calibrations.	



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ELECTRICAL CALIBRATION (continued)						
AC POWER			By phantom load technique at unity power factor.	Lab 1		
0.1 mW to 100 kW 45 Hz to 65 Hz	33 mV to 330 mV 3.3 mA to 9 mA 9 mA to 33 mA 33 mA to 90 mA 90 mA to 330 mA	0.40 % 0.25 % 0.35 % 0.25 %				
	330 mA to 900 mA 900 mA to 2.2 A 2.2 A to 4.5 A 4.5 A to 11 A	0.35 % 0.25 % 0.35 % 0.30 %				
	11 A to 20.5 A 20.5 A to 100 A	0.22 % 0.90 %				
	330 mV to 1020 V 3.3 mA to 9 mA 9 mA to 33 mA 33 mA to 90 mA 90 mA to 330 mA	0.25 % 0.15 % 0.25 % 0.15 %				
	330 mA to 900 mA 900 mA to 2.2 A 2.2 A to 4.5 A 4.5 A to 11 A	0.25 % 0.15 % 0.30 % 0.30 %				
	11 A to 20.5 A 20.5 A to 100 A	0.22 % 0.90 %				
0.1 W to 1 MW	33 mV to 1020 V 10 A to 16.5 A 16.5 A to 110 A 110 A to 150 A 150 A to 1000 A	0.32 % 0.34 % 0.34 % 0.43 %			Clamp meter calibrations.	
PHASE ANGLE						Lab 1
Voltage:Current	0° to 360° 10 Hz to 65 Hz 65 Hz to 400 Hz	0.18° 1.0°			For applied currents in the range 3.3 mA to 20.5 A and applied voltages in the range 33 mV to 1020 V	



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INDUCTANCE Generation Calibration of inductance meters	<p>13 μH to 120 μH 1 kHz 550 Hz to 13 kHz 490 Hz to 17 kHz</p> <p>120 μH to 1.2 mH 1 kHz 330 Hz to 1.6 kHz 260 Hz to 2.5 kHz</p> <p>1.2 mH to 12 mH 110 Hz 0.5 Hz to 800 Hz 0.5 Hz to 980 Hz</p> <p>3.3 mH to 12 mH 0.5 Hz to 1 kHz 0.5 Hz to 1.4 kHz</p> <p>12 mH to 120 mH 100 Hz 0.1 Hz to 180 Hz 0.1 Hz to 230 Hz</p> <p>83 mH to 120 mH 0.1 Hz to 320 Hz 0.1 Hz to 1 kHz</p> <p>120 mH to 1.2 H 10 Hz 0.05 Hz to 30 Hz 0.05 Hz to 55 Hz</p> <p>0.65 H to 12 H 0.05 Hz to 100 Hz 0.05 Hz to 170 Hz</p> <p>1.2 H to 12 H 3 Hz 0.01 Hz to 8 Hz 0.01 Hz to 16 Hz</p> <p>5.5 H to 12 H 0.01 Hz to 19 Hz 0.01 Hz to 37 Hz</p> <p>12 H to 120 H 2 Hz 5 mHz to 4 mHz 5 mHz to 9 mHz</p> <p>30 H to 120 H 2 mHz to 7 mHz 2 mHz to 14 mHz</p>	<p>Q[0.19 %, 0.26 μH] Q[0.48 %, 0.26 μH] Q[1.4 %, 0.26 μH]</p> <p>Q[0.11 %, 1.4 μH] Q[0.40 %, 1.4 μH] Q[1.3 %, 1.4 μH]</p> <p>Q[0.11 %, 14 μH] Q[0.43 %, 14 μH] Q[1.3 %, 14 μH]</p> <p>Q[0.43 %, 14 μH] Q[1.3 %, 14 μH]</p> <p>Q[0.11 %, 140 μH] Q[0.40 %, 140 μH] Q[1.3 %, 140 μH]</p> <p>Q[0.40 %, 140 μH] Q[1.3 %, 140 μH]</p> <p>Q[0.14 %, 1.4 mH] Q[0.43 %, 1.4 mH] Q[1.3 %, 1.4 mH]</p> <p>Q[0.43 %, 1.4 mH] Q[1.3 %, 1.4 mH]</p> <p>Q[0.19 %, 19 mH] Q[0.48 %, 19 mH] Q[1.4 %, 19 mH]</p> <p>Q[0.48 %, 19 mH] Q[1.4 %, 19 mH]</p> <p>Q[0.22 %, 190 mH] Q[0.51 %, 190 mH] Q[1.4 %, 190 mH]</p> <p>Q[0.51 % + 190 mH] Q[1.4 % + 190 mH]</p>	Using multifunction calibrator	Lab 1



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
Calibration of 17th/18th Edition Test Equipment				Lab 1
INSULATION TESTERS				
Continuity	0 Ω to 100 m Ω 100 m Ω to 500 m Ω 0.5 Ω to 1 Ω 1 Ω to 5 Ω 5 Ω to 200 Ω 200 Ω to 10 k Ω	5.0 m Ω Q[1.1 %, 12 m Ω] Q[0.53 %, 12 m Ω] Q[0.46 %, 12 m Ω] Q[0.25 %, 12 m Ω] 0.25 %	Applied resistances of known value.	
High Resistance	10 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 1 G Ω 1 G Ω to 10 G Ω	0.24 % 0.35 % 0.6 % 1.3 %	Applied resistances of known value. Uncertainty increases by 0.10 % per 200 V above 500 V.	
Test Voltage Measurement	0 V to 2 kV DC 10 k Ω to 1 M Ω load 1 M Ω to 10 G Ω load	Q[1.0 %, 2.0 V] Q[1.0 %, 5.0 V]	By voltage measurement.	
LINE / LOOP IMPEDANCE TESTERS				
Resistance (nominal values)	25 m Ω 50 m Ω 100 m Ω 330 m Ω 500 m Ω 1 Ω 1.8 Ω 5 Ω 10 Ω 18 Ω 50 Ω 100 Ω 180 Ω 500 Ω 1 k Ω 1.8 k Ω	6.0 m Ω 6.0 m Ω 6.0 m Ω 9.0 m Ω 10 m Ω 12 m Ω 22 m Ω 36 m Ω 0.070 Ω 0.12 Ω 0.35 Ω 0.59 Ω 1.2 Ω 3.0 Ω 5.9 Ω 12 Ω	At 50 Hz nominal	
Current	0.05 A 0.1 A 0.25 A 0.5 A 0.8 A 1.5 A 2.0 A 3.2 A 6 A 8 A 10 A 14 A 25 A 28 A 30 A	Q[1.5 %, 2.0 mA] Q[1.5 %, 3.0 mA] Q[1.5 %, 5.0 mA] Q[1.5 %, 10 mA] Q[1.5 %, 20 mA] Q[1.5 %, 30 mA] Q[1.5 %, 50 mA] Q[1.5 %, 70 mA] Q[1.5 %, 100 mA] Q[1.5 %, 150 mA] Q[1.5 %, 0.20 A] Q[1.5 %, 0.30 A] Q[1.5 %, 0.35 A] Q[1.5 %, 0.50 A] Q[1.5 %, 0.70 A]	50 Hz nominal	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
RCD TESTERS				Lab 1
Timing	10 ms to 5 s	Q[0.024 %, 0.32 ms]		
Current				
0.5 x I and 1 x I Mode	3 mA to 30 mA 30 mA to 300 mA 300 mA to 3000 mA	Q[1.3 %, 1.3 μ A] Q[1.3 %, 14 μ A] Q[1.3 %, 0.13 mA]		
1.4 x I and 2 x I Mode	3 mA to 30 mA 30 mA to 300 mA 300 mA to 1500 mA	Q[2.6 %, 1.3 μ A] Q[2.6 %, 14 μ A] Q[2.6 %, 0.13 mA]		
5 x I Mode	3 mA to 30 mA 30 mA to 300 mA 300 mA to 600 mA	Q[6.4 %, 1.3 μ A] Q[6.4 %, 14 μ A] Q[6.4 %, 0.13 mA]		
LEAKAGE TESTERS				
Current				
Passive/Differential/Substitute Modes	0.1 mA to 30 mA	Q[0.30 %, 2.0 μ A (ac + dc) rms]		
Active Mode	0.1 mA to 30 mA	Q[0.30 %, 1.0 μ A (ac + dc) rms]		
Touch Voltage	250 V Range	Q[5.0 %, 3.0 V]		
PORTABLE APPLIANCE TESTERS				
Earth Bond Resistance.	25 m Ω 50 m Ω 100 m Ω 330 m Ω 500 m Ω 1 Ω 1.8 Ω 5 Ω 10 Ω 18 Ω 50 Ω 100 Ω 180 Ω 500 Ω 1 k Ω 1.8 k Ω	6.0 m Ω 6.0 m Ω 6.0 m Ω 9.0 m Ω 10 m Ω 12 m Ω 22 m Ω 36 m Ω 70 m Ω 0.12 Ω 0.35 Ω 0.59 Ω 1.2 Ω 3.0 Ω 5.9 Ω 12 Ω	Nominal values at 50 Hz to 60 Hz	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
PORTABLE APPLIANCE TESTERS (continued)				Lab 1
Earth Bond Current At 50 Hz to 60 Hz	0.05 A 0.1 A 0.25 A 0.5 A 0.8 A 1.5 A 2.0 A 3.2 A 6 A 8 A 10 A 14 A 25 A 28 A 30 A	2.8 mA 4.5 mA 8.8 mA 18 mA 32 mA 53 mA 80 mA 0.12 A 0.19 A 0.27 A 0.35 A 0.51 A 0.73 A 0.92 A 1.2 A		
Insulation Resistance	10 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 1 G Ω 1 G Ω to 10 G Ω	0.24 % 0.35 % 0.60 % 1.3 %	Applied resistances of known value. Uncertainty increases by 0.10 % per 200 V above 500 V.	
Test Voltage	0 V to 2 kV DC 10 k Ω to 1 M Ω load 1 M Ω to 10 G Ω load	Q[1.0 %, 2.0 V] Q[1.0 %, 5.0 V]	By voltage measurement.	
Continuity	100 m Ω to 500 m Ω 0.5 Ω to 1 Ω 1 Ω to 5 Ω 5 Ω to 200 Ω 200 Ω to 10 k Ω	Q[1.1 %, 12 m Ω] Q[0.53 %, 12 m Ω] Q[0.46 %, 12 m Ω] Q[0.25 %, 12 m Ω] 0.25 %		
HIPOT/HV TESTERS				
HVDC Voltage	0.1 kV to 10 kV 10 kV to 20 kV 20 kV to 35 kV 35 kV to 40 kV	Q[0.35 %, 7.0 V] Q[2.4 %, 46 V] Q[1.3 %, 78 V] Q[2.4 %, 97 V]		
HVAC Peak Voltage	50 Hz / 60 Hz 100 V to 10 kV 10 kV to 40 kV	Q[0.60 %, 19 V] Q[5.8 %, 100 V]		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
HIPOT/HV TESTERS (continued)				Lab 1
DC Leakage Current	0 A to 300 μ A 0.3 mA to 3 mA 3 mA to 30 mA 30 mA to 300 mA	Q[0.37 %, 0.26 μ A] Q[0.24 %, 1.9 μ A] Q[0.24 %, 19 μ A] Q[0.24 %, 0.19 mA]		
AC Leakage Current	20 Hz to 400 Hz 0 A to 300 μ A 0.3 mA to 3 mA 3 mA to 30 mA 30 mA to 300 mA	Q[0.37 %, 0.26 μ A] Q[0.24 %, 1.9 μ A] Q[0.24 %, 19 μ A] Q[0.24 %, 0.19 mA]		
FREQUENCY	1 Hz to 10 Hz 10 Hz to 100 Hz 100 Hz to 1 kHz 1kHz to 10kHz 10 kHz to 100 kHz 100 kHz to 10 MHz 10 MHz to 100 MHz 100 MHz to 1 GHz 1 GHz to 10 GHz 10 GHz to 20 GHz	2.0 in 10^6 1.0 in 10^6 1.0 in 10^7 1.0 in 10^8 1.0 in 10^9 1.0 in 10^9 1.6 in 10^{10} 19 in 10^{12} 15 in 10^{12} 2.8 in 10^{12}	Results and uncertainties may be quoted as average periodic time for repetitive events.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TIME INTERVAL Elapsed Time	1 s to 24 hrs	0.22 s	Mechanically triggered. The quoted uncertainty is particularly dependent on the resolution of the timer being calibrated.	Lab 1
		0.0010 s	Electronically triggered	
ROTATIONAL SPEED Tachometers	60 rpm to 1 000 rpm 1 000 rpm to 10 000 rpm 10 000 rpm to 120 000 rpm	0.12 rpm 0.13 rpm to 0.65 rpm 0.65 rpm to 1.7 rpm	Optical or electrically triggered devices. Mechanical tachometers will attract a larger uncertainty due to resolution.	Lab 1
VOLTAGE REFLECTION COEFFICIENT	0 to 1 10 MHz to 8 GHz 8 GHz to 18 GHz	0.030 0.070	Using R & S ZNB-20 The uncertainties are quoted for 50 Ω systems for devices fitted only with Type N Connectors. Results and uncertainties may also be quoted in units of Return Loss (dB) or VSWR	Lab 1
RF ATTENUATION	10 MHz to 4 GHz 0 dB to 10 dB 10 dB to 40 dB 40 dB to 50 dB 50 dB to 70 dB 70 dB to 90 dB	0.036 dB 0.040 dB 0.050 dB 0.080 dB 0.090 dB	Using R & S ZNB-20 The uncertainties are quoted for 50 Ω systems for devices fitted only with Type N Connectors which present a near match to the 50 Ω measurement system.	Lab 1
	4 GHz to 12 GHz 0 dB to 10 dB 10 dB to 20 dB 20 dB to 30 dB 30 dB to 40 dB 40 dB to 50 dB	0.043 dB 0.040 dB 0.050 dB 0.040 dB 0.060 dB	Measurement of devices presenting a significant mismatch will receive much larger uncertainties.	
	12 GHz to 18 GHz 0 dB to 10 dB 10 dB to 20 dB 20 dB to 30 dB 30 dB to 40 dB 40 dB to 50 dB	0.16 dB 0.16 dB 0.15 dB 0.16 dB 0.24 dB		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
RF POWER Reference	1 mW Reference 50 MHz	0.0063 mW		Lab 1
RF POWER			Note: These uncertainties are for type N systems with a source VSWR of 1.20:1 or less. Measurement of devices with a higher mismatch will receive higher measurement uncertainties.	Lab 1
	100 kHz to 300 kHz +20 dBm to +10 dBm +10 dBm to -25 dBm	0.21 dB 0.16 dB	Using 438A Power Meter and 8482A Sensor.	
	300 kHz to 1 MHz +20 dBm to +10 dBm +10 dBm to -25 dBm	0.16 dB 0.10 dB		
	1 MHz to 100 MHz +20 dBm to +10 dBm +10 dBm to -25 dBm	0.15 dB 0.090 dB	Using 438A Power Meter and 8482A Sensor	
	100 MHz to 3 GHz +20 dBm to +10 dBm +10 dBm to -25 dBm	0.16 dB 0.090 dB		
	3 GHz to 4.2 GHz +20 dBm to +10 dBm +10 dBm to -25 dBm	0.17 dB 0.11 dB		
	10 MHz to 30 MHz +20 dBm to +10 dBm +10 dBm to -25 dBm	0.16 dB 0.10 dB	Using 438A Power Meter and 8481A Sensor	
	30 MHz to 3.9 GHz +20 dBm to +10 dBm +10 dBm to -25 dBm	0.15 dB 0.080 dB		
	4 GHz to 18 GHz +20 dBm to +10 dBm +10 dBm to -25 dBm	0.16 dB 0.10 dB		
	10 MHz to 30 MHz -20 dBm to -30 dBm -30 dBm to -60 dBm	0.14 dB 0.19 dB	Using 438A Power Meter and 8484A Sensor	
	30 MHz to 3.9 GHz -20 dBm to -30 dBm -30 dBm to -60 dBm	0.13 dB 0.12 dB		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code		
RF POWER (continued)	4 GHz to 12 GHz -20 dBm to -30 dBm -30 dBm to -60 dBm	0.14 dB 0.14 dB	Using ML2437A Power Meter and MA 2481B Sensor	Lab 1		
	12 GHz to 18 GHz -20 dBm to -30 dBm -30 dBm to -60 dBm	0.15 dB 0.15 dB				
	10 MHz to 50 MHz +20 dBm to -60 dBm	0.13 dB				
	50 MHz to 3 GHz +20 dBm to -60 dBm	0.10 dB				
	3 GHz to 6 GHz +20 dBm to -60 dBm	0.11 dB				
	10 MHz to 6.6 GHz 0 dBm to -50 dBm -50 dBm to -70 dBm -70 dBm to -100 dBm -100 dBm to -130 dBm	0.088 dB 0.091 dB 0.096 dB 0.10 dB			N5531S Measuring Receiver & Sensor Module	Lab 1
	6.6 GHz to 13.2 GHz 0 dBm to -40 dBm -40 dBm to -60 dBm -60 dBm to -90 dBm -90 dBm to -120 dBm	0.13 dB 0.13 dB 0.13 dB 0.14 dB			Tuned RF Level using 8902A measuring receiver	Lab 1
	13.2 GHz to 18 GHz 0 dBm to -30 dBm -30 dBm to -50 dBm -50 dBm to -90 dBm -90 dBm to -120 dBm	0.13 dB 0.13 dB 0.13 dB 0.14 dB				
	2.5 MHz to 1.3 GHz 0 dBm to -30 dBm -30 dBm to -80 dBm -80 dBm to -120 dBm -120 dBm to -130 dBm	0.14 dB 0.13 dB 0.16 dB 0.23 dB				
RF PEAK POWER	+20 dBm to -40 dBm 500 MHz to 800 MHz 800 MHz to 1 GHz 1 GHz to 1.6 GHz 1.6 GHz to 2.5 GHz 2.5 GHz to 3.2 GHz 3.2 GHz to 3.6 GHz 3.6 GHz to 4.2 GHz 4.2 GHz to 4.4 GHz 4.4 GHz to 4.5 GHz 4.5 GHz to 4.6 GHz 4.6 GHz to 4.8 GHz 4.8 GHz to 5.2 GHz 5.2 GHz to 5.4 GHz 5.4 GHz to 5.5 GHz 5.5 GHz to 5.8 GHz 5.8 GHz to 6 GHz	0.10 dB 0.11 dB 0.12 dB 0.13 dB 0.12 dB 0.11 dB 0.10 dB 0.11 dB 0.14 dB 0.15 dB 0.14 dB 0.13 dB 0.14 dB 0.13 dB 0.12 dB 0.11 dB	For the calibration of pulsed RF sources and generators using 4541 Peak Power Meter & 57006 Sensor	Lab 1		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
RF PEAK POWER (continued)				
Bandwidth at -3dB point	9 kHz to 18 GHz -3 dB from set point	0.34 MHz	Filter shape using 438A Power Meter & 8481A Sensor	Lab 1
AMPLITUDE MODULATION				Lab 1
System 1	Modulation rate 50 Hz to 10 kHz 5 % AM to 40 % AM 40 % AM to 99 % AM	Q[2.0 % of reading, 0.010 % AM] Q[2.0 % of reading, 0.10 % AM]	Using 8902A measuring receiver f_c 10 MHz to 1.3 GHz f_c 10 MHz to 1.3 GHz	
System 2	5 % AM to 99 % AM Modulation rate 50 Hz to 10 kHz 20 % AM to 99 % AM Modulation rate 50 Hz to 100 kHz 5 % AM to 20 % AM Modulation rate 50 Hz to 100 kHz 20 % AM to 99 % AM Modulation rate 50 Hz to 100 kHz 5 % AM to 20 % AM Modulation rate 50 Hz to 100 kHz	0.75 % of reading 0.50 % of reading 2.5 % of reading 1.5 % of reading 4.5 % of reading	Using N5531S measuring receiver system f_c 100 kHz to 10 MHz f_c 10 MHz to 3 GHz f_c 10 MHz to 3 GHz f_c 3 GHz to 18 GHz f_c 3 GHz to 18 GHz	
FREQUENCY MODULATION System 1	0 kHz to 4 kHz Modulation rate 20 Hz to 50 Hz Modulation rate 50 Hz to 100 kHz Modulation rate 100 kHz to 200 kHz 4 kHz to 40 kHz Modulation rate 20 Hz to 50 Hz Modulation rate 50 Hz to 100 kHz Modulation rate 100 kHz to 200 kHz	Q[2.0 %, 1.0 Hz] Q[1.0 %, 1.0 Hz] Q[5.0 %, 1.0 Hz] Q[2.0 %, 10 Hz] Q[1.0 %, 10 Hz] Q[5.0 %, 10 Hz]	f_c 10 MHz to 1.3 GHz, using 8902A measuring receiver. Not all combinations of carrier deviation and modulation frequencies may be realisable.	Lab 1



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FREQUENCY MODULATION System 1 (continued)	40 kHz to 400 kHz <i>Modulation rate 50 Hz to 100 kHz</i>	Q[1.0 %, 100 Hz]		Lab 1
	<i>Modulation rate 20 Hz to 50 Hz and 100 kHz to 200 kHz</i>	Q[5.0 %, 100 Hz]		
System 2	200 Hz to 400 kHz <i>Modulation rate 20 Hz to 200 kHz</i>	1.0 % of reading	Using N5531S measuring receiver system. Not all combinations of carrier deviation and modulation frequencies may be realisable.	
SPECTRUM ANALYSIS	+30 dBm to -100 dBm <i>3 Hz to 3 GHz</i>	0.25 dB	Using N5531S measuring receiver system.	Lab 1
	<i>3 GHz to 6.6 GHz</i>	0.75 dB		
	<i>6.6 GHz to 13.2 GHz</i>	1.2 dB		
	<i>13.2 GHz to 22 GHz</i>	1.1 dB		
DISTORTION FACTOR	0 dB to -80 dB	1.0 dB	Includes in-band noise and spurs. All spectral components must lie within the range 20 Hz to 250 kHz.	Lab 1
DIMENSIONAL MEASUREMENTS			All linear calibrations may be given in inch units.	Lab 2
MEASURING INSTRUMENTS AND MACHINES				
Micrometers				
External	BS 870:2008 0 mm to 1000 mm	Heads 2.0 μm between any two points. Zero set Q[1.0, (8.0 x length in m) μm]		
Internal	BS 959:2008 and above 0 mm to 1000 mm	Heads 2.0 μm between any two points. Extension rods Q[1.0, (8.0 x length in m) μm]		
Depth	BS 6468:2008 0 mm to 300 mm	Heads 2.0 μm between any two points. Extension rods Q[1.0, (8.0 x length in m) μm]		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
DIMENSIONAL MEASUREMENTS (continued)				
Micrometer heads	As BS 1734:1951 0 to 100	1.6 μm		Lab 2
Micrometer setting rods/ Length gauges, flat & spherical ended	BS 870:2008 25 mm to 600 mm	Q[1.0, (5.0 x length in m) μm]		
Three point bore	2 mm to 200 mm	Overall performance 4.0 μm	Using ring gauges of a known size	
Vernier Gauges				
Caliper	BS 887:2008 and above 0 mm to 1500 mm	Overall performance Q[10, (30 x length in m) μm]		
Depth	As BS 6365: 2008 0 to 1000 mm			
Dial gauges and dial test indicators	As BS 907:2008 and BS 2795:1981 0 mm to 50 mm	2.0 μm		
External and Internal Dial Callipers	0-150mm	3.5 μm	In house procedure PRO580	
Simple height gauges	BS EN ISO 13225:2012 0 mm to 300mm 300 mm to 450mm 450 mm to 600mm 600 mm to 1000mm	Length measurement error (E) 5 μm 6 μm 7 μm 8 μm		
Spirit levels	As BS 958:1968 5 seconds to 60 minutes of arc nominal sensitivity	1.5 seconds of arc		
Clinometers	0° to 360°	10 seconds of arc or greater dependent on sensitivity	Calibrated using a sine bar and gauge blocks	
LENGTH			All linear calibrations may be given in inch units. By comparison with reference standards	
Plain plug gauges (parallel) Cylindrical setting standards	1 mm to 50 mm diameter 50 mm to 150 mm diameter TIR	0.8 μm 1.2 μm 0.8 μm		
Precision pins	0.05 mm to 50 mm diameter	0.8 μm		
Plain ring gauges (parallel) and setting standards	2.2 mm to 50 mm diameter 50 mm to 100 mm 100 mm to 150 mm diameter 150 mm to 200 mm diameter	1.7 μm 1.8 μm 2.2 μm 2.3 μm	By comparison with reference standards	
Thread measuring cylinders	As BS3777:1964 and BS5590:1978 and specials 0.1 to 5.0 diameter	0.80 μm		
Plain gap gauges (parallel)	1 to 100mm	3.0 μm	Using gauge blocks	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code	
DIMENSIONAL MEASUREMENTS (continued)					
Gauge blocks		Class (see note)		Lab 2	
Inch (Steel)	As BS 4311-1:2007 0.01 inch to 0.4 inch 0.4 inch to 1 inch 2 inch 3 inch 4 inch	<u>C</u> 3.4 μ inches 4.1 μ inches 5.7 μ inches 7.6 μ inches 9.6 μ inches	Note: Class C uncertainties apply to the measurement of length of steel gauges by comparison with grade K standards of length of a similar material. Class C uncertainties apply to new and used grade 0, 1 & 2 gauges to BS 4311-1:2007 and BS EN ISO 3650:1999 By comparison with reference standards and a single axis measuring machine. The uncertainty quoted is for the departure from flatness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration.	Lab 2 and Site	
Millimetre (Steel)	As BS EN ISO 3650:1999 0.25 mm to 10 mm 10 mm to 25 mm 30 mm, 40 mm, 50 mm 60 mm, 70 mm, 75 mm 80 mm, 90 mm, 100 mm	<u>C</u> 0.10 μ m 0.11 μ m 0.13 μ m 0.17 μ m 0.20 μ m			
Feeler Gauges	As BS 957:2008 0.02 mm to 1.00 mm	1.0 μ m			
Paint thickness setting foils	0.01 mm to 8 mm	2.0 μ m			
Parallels	As BS 906:1972 5 to 50 x 100 x 400 mm	2.5 μ m			
Squares Blade type	50 mm to 450 mm	5.5 μ m			
Right angle and box angle plates	As BS 5535:1978 50 mm to 300 mm	Squareness: Q[3.0, (1.0 per 100 mm)]			
Vee blocks	As BS 3731:1987 20 mm to 100 mm	5.0 μ m			
FORM					
Surface plates and tables Granite Cast iron	BS 817:2008 160 mm x 100 mm to 2500 mm x 1600 mm	Q[1.5 μ m, (0.80 x diagonal in m) μ m] See Note 1			The uncertainty quoted is for the departure from flatness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration.



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
DIMENSIONAL MEASUREMENTS (Ctd)				
ANCILLARY MEASUREMENTS				Lab 2
Flatness		0.2 μm	Ancillary measurements made for completeness of calibration. Best CMCs are dependent on methodology and range.	
Parallelism		0.8 μm		
Squareness		2.5 μm		
Straightness		Q[1.4, (0.8 x length in m) μm]		
ACCELEROMETRY				Lab 2
Portable Accelerometer (brake meters)	Horizontal acceleration 0 % to 100 %	1.0 % of horizontal acceleration	NOTE Mechanical brake meters only Horizontal acceleration expressed as a percentage (%) of the local free fall acceleration due to gravity. Brake meters calibrated using an inclinable test rig.	
MASS See notes 1 and 2	Nominal Value (g)	(mg)	Note 1: Calibrations can be given in other units as required. Note 2: Intermediate values can be calibrated to an uncertainty interpolated from the next higher and lower values in the table. Note 3: The calibration is based on Borda's method of substitution	Lab 2
	50 000	50		
	20 000	20		
	10 000	10		
	5 000	5.0		
	2 000	2.0		
	1 000	1.0		
	500	0.50		
	200	0.20		
	100	0.10		
	50	0.060		
	20	0.050		
	10	0.040		
	5	0.030		
	2	0.024		
	1	0.020		
	0.5	0.016		
	0.2	0.012		
	0.1	0.010		
	0.05	0.0080		
	0.02	0.0060		
	0.01	0.0050		
	0.005 to 0.001	0.0040		



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

Allied Aerosystems Ltd
Issue No: 064 Issue date: 18 December 2025

Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TORQUE			Note 1: Values may be given in other units, i.e. lbf/ft, mV/V etc.	Lab 2
Torque Wrenches and screwdrivers	BS EN 6789-2:2017 (See note 2) 0.1 to 1040 N·m	1.0 %	Note 2: Excluding setting screwdrivers below 1 N·m at lowest level	
	BS EN 6789:2003 (withdrawn) 0.1 to 2500 N·m	1.6 %		
Static Torque Transducers	0.005 to 1500 N·m Classes 0.05 to 5.0 See Note 1	0.040 % of reading	Calibrated to BS 7882:2017 Using either torque disk, Beam & weights or Reference torque transducer	
TEMPERATURE				Lab 2
Temperature block calibrators	-50 °C to +100 °C 100 °C to 250 °C 250 °C to 650 °C	0.060 °C 0.060 °C to 0.13 °C 0.13 °C	Method consistent with Euramet CG 13	
Resistance thermometers	-40 °C to 0 °C 0 °C Ambient temperature(20 °C) 0 °C to 250 °C 250 °C to 270 °C 270 °C to 650 °C	0.040 °C 0.025 °C 0.025 °C 0.040 °C 0.090 °C 0.35 °C	Comparison in liquid bath, ice bath or block calibrator	
Thermocouples	-90 °C to +40 °C -40 °C to +50 °C 50 °C to 250 °C 250 °C to 650 °C 650 °C to 1000 °C 1000 °C to 1200 °C	0.10 °C 0.10 °C 0.10 °C to 0.20 °C 0.35 °C to 0.60 °C 1.7 °C to 2.5 °C 2.5 °C to 3.5 °C	Comparison in block calibrator	
Thermocouples, batch calibration	-40 °C to +250 °C	0.080 °C	Comparison in liquid bath or ice bath	
Compensating and extension cables for Base metal thermocouples Noble metal thermocouples	0 °C and 20 °C to 40 °C 0 °C and 20 °C to 40 °C	0.055 °C 0.12 °C	Comparison in liquid bath or ice bath	
Digital thermometers with probes	-40 °C to 0 °C 0 °C Ambient temperature(20 °C) 0 °C to 250 °C 250 °C to 270 °C 270 °C to 650 °C 650 °C to 1000 °C 1000 °C to 1200 °C	0.040 °C 0.025 °C 0.025 °C 0.040 °C 0.065 °C 0.25 °C 1.7 °C to 2.5 °C 2.5 °C to 3.5 °C	Comparison in liquid bath, ice bath or block calibrator	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TEMPERATURE (continued)				
Liquid in glass thermometers	-40 °C to +70 °C 70 °C to 270 °C	0.050 °C 0.050 °C to 0.20 °C	Comparison in liquid bath, ice bath or block calibrator. Thermometers can be read with an uncertainty of 1/5 of the smallest marked division	
Liquid baths	-50 °C to +300 °C	0.040 °C	Using PRTs. Suitable for characterisation of temperature calibration baths	
Temperature controlled environmental chambers, fridges/refrigerators, freezers, ovens, incubators and rooms	-40 °C to +250 °C	1.0 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping.	Site
Digital thermometers with probes	-20 °C to +140 °C	0.20 °C		
Digital thermometers with probes and indicators including data loggers	-40 °C to +10 °C 10 °C to 25 °C 25 °C to 37 °C 37 °C to 70 °C	0.18 °C 0.18 °C to 0.14 °C 0.14 °C to 0.15 °C 0.15 °C to 0.22 °C	Performed in air	Lab 2
RELATIVE HUMIDITY				
Relative humidity instruments with displays including data loggers	10 °C to 25 °C 10 %rh to 90 %rh 25 °C to 50 °C 10 %rh to 90 %rh	1.75 %rh 1.75 %rh to 1.95 %rh	By comparison with a reference hygrometer	Lab 2
ELECTRICAL SIMULATION				
Electrical calibration of temperature indicators and simulators			Uncertainties based on Types J, K, R and B. Uncertainties may be higher for other thermocouple types	Lab 2
Base metal thermocouples	-200 °C to -100 °C -100 °C to -30 °C -30 °C to +1200 °C 1200 °C to 1370 °C	0.18 °C 0.090 °C 0.080 °C 0.11 °C	Including cold junction compensation	
Noble metal thermocouples	-50 °C to +50 °C 50 °C to 270 °C 270 °C to 1820 °C	0.70 °C 0.50 °C 0.40 °C	Including cold junction compensation	
Cold junction compensation	Ambient temperature	0.080 °C		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
<p>PRESSURE</p> <p>Gas pressure (absolute)</p> <p>Calibration of pressure measuring instruments and gauges</p>	<p>3.5 kPa to 175 kPa 175 kPa to 700 kPa 700 kPa to 7 MPa</p>	<p>Q[0.0094 %, 2.0 Pa] Q[0.010 %, 0.020 Pa] Q[0.010 %, 0.20 Pa]</p>	Methods consistent with EURAMET CG17	Lab 2
<p>Gas pressure (gauge)</p> <p>Calibration of pressure measuring instruments and gauges</p>	<p>80 to 120 kPa</p> <p>-85 kPa to 0 kPa 0 kPa to 3.5 kPa 3.5 kPa to 175 kPa 175 kPa to 700 kPa 700 kPa to 7 MPa 7 MPa to 20 MPa 20 MPa to 40 MPa</p>	<p>0.15 kPa</p> <p>60 Pa 0.13 kPa Q[0.0090 %, 0.020 Pa] Q[0.0096 %, 0.020 Pa] Q[0.0096 %, 0.20 Pa] 14 kPa 46 kPa</p>		Site
<p>Hydraulic pressure (gauge)</p> <p>Calibration of pressure measuring instruments and gauges</p>	<p>-85 kPa to 0 kPa 0 kPa to 200 kPa 200 kPa to 700 kPa 700 kPa to 2 MPa</p> <p>350 kPa to 0.69 MPa 0.70 MPa to 7.1 MPa 7.1 MPa to 83.5 MPa 83.5 MPa to 140 MPa</p>	<p>60 Pa 0.13 kPa 0.52 kPa 1.3 kPa</p> <p>Q[0.0092 %, 0.15 kPa] Q[0.0095 %, 0.11 kPa] Q[0.0090 %, 0.11 kPa] 94 kPa</p>		Lab 2
	<p>0 MPa to 7 MPa 7 MPa to 35 MPa 35 MPa to 70 MPa 70 MPa to 140 MPa</p>	<p>4.7 kPa 24 kPa 46 kPa 94 kPa</p>		Site



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
NON-AUTOMATIC WEIGHING INSTRUMENTS (NAWI)	Capacity		Note 1: Weights are available in	Site
Electronic and mechanical self-indicating non automatic weighing instruments and spring balances See notes 1 and 2	200 mg	0.012 mg	OIML Class E2 Max grouped load 800 g	
	500 mg	0.015 mg		
	1 g	0.018 mg		
	2 g	0.025 mg		
	5 g	0.037 mg		
	10 g	0.042 mg	OIML Class F1 Max grouped load 95 kg	
	12 g	0.058 mg		
	50 g	0.092 mg		
	100 g	0.16 mg		
	200 g	0.30 mg		
	500 g	0.78 mg	OIML Class M1 Max grouped load 3500 kg	
	1 kg	3.3 mg		
	2 kg	6.5 mg		
	5 kg	16 mg		
	10 kg	33 mg		
	20 kg	65 mg		
	50 kg	160 mg		
	100 kg	3.5 g		
	200 kg	7.0 g		
	500 kg	18		
1000 kg	35 g	Note 2: Other loads within the overall listed range may also be used.		
2000 kg	70 g			
3500 kg	110 g			
			Note 3: The calibration procedure PRO17 is based on EURAMET CG-18	
FORCE				Lab 2
Calibration of force measuring devices (e.g. strain gauged load cells and load measuring rings) but excluding proving devices, in tension and compression modes using masses and reference devices	From 0.1 N up to 2500 N From 0.6 kN up to 600 kN	0.10 % 0.23 %	Calibration performed to BS 8422:2003	
Calibration of push pull force measuring devices in tension and compression using masses and reference devices	0.001 N to 2 kN	0.10 %		
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: $Q[a, b] = [a^2 + b^2]^{1/2}$