


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 30612 Accredited to ISO/IEC 17025:2017	AstraZeneca UK Limited Issue No: 002 Issue date: 22 January 2026	
	1 Francis Crick Avenue Cambridge Biomedical Campus Cambridge CB2 0AA	Contact: Mr Carl Halliwell Tel: +44(0) 1625 510350 E-Mail: Carl.halliwell@astrazeneca.com
Calibration performed by the Organisation at the location specified below		

Laboratory locations:

Location details	Activity	Location code
Address B5 Gawsworth AstraZeneca Macclesfield Cheshire SK10 2NA	Local contact Mr Carl Halliwell Tel: +44(0) 01625 510350 Email: Carl.halliwell@astrazeneca.com	Electrical / Pressure / Temperature Humidity / Mass / Dimensional / Vacuum Lab



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL			
Electrical measurement and sourcing capabilities listed below follow the method of direct comparison against laboratory references or established ratio technique unless otherwise stated in the remarks column. This includes Time, Frequency and Temperature Simulation.			
DC Voltage	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	4.7 $\mu\text{V/V} + 0.84 \mu\text{V}$ 3.3 $\mu\text{V/V} + 0.43 \mu\text{V}$ 3.3 $\mu\text{V/V} + 11.2 \mu\text{V}$ 3.3 $\mu\text{V/V} + 11.2 \mu\text{V}$ 3.3 $\mu\text{V/V} + 11.2 \mu\text{V}$	
DC Resistance	10 Ω 25 Ω 100 Ω 400 Ω 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 10 k Ω 10 k Ω to 200 k Ω 200 k Ω to 2 M Ω 2 M Ω to 20 M Ω 20 M Ω to 100 M Ω	1.58 $\mu\Omega/\Omega + 0.0012 \text{ m}\Omega$ 0.58 $\mu\Omega/\Omega + 0.12 \text{ m}\Omega$ 0.58 $\mu\Omega/\Omega + 0.23 \text{ m}\Omega$ 0.59 $\mu\Omega/\Omega + 3.46 \text{ m}\Omega$ 13 $\mu\Omega/\Omega$ 6 $\mu\Omega/\Omega$ 5.5 $\mu\Omega/\Omega$ 5.3 $\mu\Omega/\Omega$ 5.2 $\mu\Omega/\Omega$ 7.9 $\mu\Omega/\Omega + 1 \Omega$ 8.8 $\mu\Omega/\Omega + 3 \Omega$ 15.2 $\mu\Omega/\Omega + 100 \Omega$ 60 $\mu\Omega/\Omega + 15 \text{ k}\Omega$	
DC Current	0 μA to 10 μA 10 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	24 $\mu\text{A/A} + 0.006 \mu\text{A}$ 8.3 $\mu\text{A/A} + 0.005 \mu\text{A}$ 7.7 $\mu\text{A/A} + 0.03 \mu\text{A}$ 9 $\mu\text{A/A} + 0.1 \mu\text{A}$ 33 $\mu\text{A/A} + 2 \mu\text{A}$ 170 $\mu\text{A/A} + 35 \mu\text{A}$ 174 $\mu\text{A/A} + 600 \mu\text{A}$	
AC Voltage	0 mV to 10 mV 1 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 10 mV to 200 mV 1 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 200 mV to 2 V 1 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	255 $\mu\text{V/V} + 23 \mu\text{V}$ 334 $\mu\text{V/V} + 23 \mu\text{V}$ 344 $\mu\text{V/V} + 23 \mu\text{V}$ 0.3 % + 30 μV 1.0 % + 30 μV 2.0 % + 118 μV 85 $\mu\text{V/V} + 24 \mu\text{V}$ 105 $\mu\text{V/V} + 6 \mu\text{V}$ 105 $\mu\text{V/V} + 9 \mu\text{V}$ 305 $\mu\text{V/V} + 10 \mu\text{V}$ 512 $\mu\text{V/V} + 38 \mu\text{V}$ 81 $\mu\text{V/V} + 125 \mu\text{V}$ 65 $\mu\text{V/V} + 30 \mu\text{V}$ 85 $\mu\text{V/V} + 30 \mu\text{V}$ 205 $\mu\text{V/V} + 60 \mu\text{V}$ 505 $\mu\text{V/V} + 213 \mu\text{V}$ 0.2 % + 1.2 mV 1 % + 5.9 mV	



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AC Voltage (continued)	2 V to 20 V 1 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	81 μ V/V + 689 μ V 65 μ V/V + 240 μ V 85 μ V/V + 350 μ V 205 μ V/V + 2 mV 235 μ V/V + 1.5 mV 0.2 % + 12.1 mV 1.0 % + 59 mV			
	20 V to 200 V 1 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	86 μ V/V + 4.3 mV 65 μ V/V + 3.5 mV 85 μ V/V + 3.5 mV 205 μ V/V + 13 mV 513 μ V/V + 31.8 mV			
	200 V to 1000 V 1 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz	103 μ V/V + 60 mV 95 μ V/V + 30 mV 205 μ V/V + 50 mV			
	AC Current	0 μ A to 20 μ A 1 Hz to 2 kHz 2 kHz to 10 kHz	0.2 % + 0.03 μ A 0.2 % + 0.03 μ A		
		20 μ A to 200 μ A 1 Hz to 2 kHz 2 kHz to 10 kHz	260 μ A/A + 0.05 μ A 510 μ A/A + 0.05 μ A		
		200 μ A to 2 mA 1 Hz to 2 kHz 2 kHz to 10 kHz	260 μ A/A + 0.5 μ A 510 μ A/A + 0.5 μ A		
		2 mA to 20 mA 1 Hz to 2 kHz 2 kHz to 10 kHz	260 μ A/A + 2 μ A 510 μ A/A + 3 μ A		
		20 mA to 200 mA 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz	250 μ A/A + 4 μ A 250 μ A/A + 4 μ A 600 μ A/A + 6 μ A		
		200 mA to 2 A 1 Hz to 2 kHz 2 kHz to 10 kHz	260 μ A/A + 189 μ A 510 μ A/A + 316 μ A		
		2 A to 20 A 1 Hz to 2 kHz 2 kHz to 10 kHz	800 μ A/A + 3 mA 800 μ A/A + 4.7 mA		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
CALIBRATION OF 16TH/17TH EDITION TEST EQUIPMENT 5322A system			
DC Voltage	0.3 V to 3 V 3 V to 30 V 30 V to 150 V 150 V to 600 V	0.4 % + 0.0043 V 0.24 % + 0.0043 V 0.078 % + 0.065 V 0.078 % + 0.62 V	Using a dedicated calibrator that covers all relevant functions.
AC Voltage	0.3 V to 3 V 3 V to 30 V 30 V to 100 V 100 V to 300 V 300 V to 600 V	0.24 % + 0.0043 V 0.078 % + 0.010 V 0.078 % + 0.14 V 0.078 % + 0.32 V 0.078 % + 0.66 V	
Frequency	40 Hz to 400 Hz	0.052 % + 0.16 Hz	
Low Resistance	0.1 Ω to 0.199 Ω 0.2 Ω to 0.499 Ω 0.5 Ω to 1.999 Ω 2 Ω to 4.99 Ω 5 Ω to 29.9 Ω 30 Ω to 199.9 Ω 200 Ω to 499 Ω 500 Ω to 1.999 kΩ 2 kΩ to 4.99 kΩ 5 kΩ to 10 kΩ	1.0 % + 0.050 Ω 0.83 % + 0.050 Ω 0.46 % + 0.050 Ω 0.28 % + 0.060 Ω 0.16 % + 0.050 Ω 0.16 % + 0.14 Ω 0.16 % + 1.2 Ω 0.16 % + 1.6 Ω 0.16 % + 12 Ω 0.16 % + 12 Ω	
Low Resistance Test Current	50 mA 120 mA 200 mA 400 mA	10 % + 3 mA 8.5 % + 3.2 mA 20 % + 3.7 mA 10 % + 4.3 mA	
High Resistance	10 kΩ to 19.9 kΩ 20 kΩ to 39.99 kΩ 40 kΩ to 99.99 kΩ 100 kΩ to 199.99 kΩ 200 kΩ to 999.99 kΩ 1 MΩ to 1.999 MΩ 2 MΩ to 9.999 MΩ 10 MΩ to 19.999 MΩ 20 MΩ to 199.99 MΩ 200 MΩ to 999.9 MΩ 1 GΩ to 1.9 GΩ 2 GΩ to 10 GΩ	0.16 % + 12 Ω 0.16 % + 16 Ω 0.16 % + 42 Ω 0.16 % + 70 Ω 0.16 % + 236 Ω 0.24 % + 200 Ω 0.24 % + 3 kΩ 0.4 % + 1.7 kΩ 0.4 % + 20 kΩ 0.4 % + 653 kΩ 0.9 % + 17 MΩ 0.9 % + 60 MΩ	
High Resistance Test Voltage	100 V @ 1 MΩ 250 V @ 1 MΩ 500 V @ 1 MΩ 1000 V @ 1 MΩ	1.0 % + 4 V 0.9 % + 4 V 0.7 % + 4.3 V 0.9 % + 7 V	
Impedance	20 mΩ 50 mΩ 100 mΩ 330 mΩ 500 mΩ	3.8 % + 20 mΩ 3.9 % + 20 mΩ 2.1 % + 20 mΩ 1.5 % + 20 mΩ 1.3 % + 20 mΩ	



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Impedance (cont'd)	900 m Ω	1.3 % + 20 mΩ			
	1.7 Ω	1.5 % + 21 mΩ			
	4.7 Ω	1.2 % + 33 mΩ			
	9 Ω	1.3 % + 46 mΩ			
	17 Ω	1.3 % + 75 mΩ			
	47 Ω	1.3 % + 0.22 Ω			
	90 Ω	1.3 % + 0.38 Ω			
	170 Ω	1.3 % + 0.83 Ω			
	470 Ω	1.3 % + 2.1 Ω			
	900 Ω	1.3 % + 4.1 Ω			
	1.7 kΩ	1.3 % + 8 Ω			
	RCD TRIP TIMES	10 ms to 5000 ms		0.10 % + 0.32 ms	Suitable for RCD testers
	RCD Current	30 mA Range			
0.5 x I & 1 x I		0.8 % + 0.08 mA			
1.4 x I & 2 x I		0.8 % + 0.08 mA			
	5 x I	0.8 % + 0.08 mA			
	300 mA Range				
	0.5 x I & 1 x I	0.8 % + 0.35 mA			
	1.4 x I & 2 x I	0.8 % + 0.35 mA			
	5 x I	0.8 % + 0.35 mA			
	3 A Range				
	0.5 x I & 1 x I	0.8 % + 5.9 mA			
	1.4 x I & 2 x I	0.8 % + 5.9 mA			
	5 x I	0.8 % + 5.9 mA			
Earth Bond Resistance	20 mΩ	3.6 % + 6.8 mΩ			
	50 mΩ	3.7 % + 6.8 mΩ			
	100 mΩ	1.8 % + 6.9 mΩ			
	350 mΩ	0.94 % + 7.0 mΩ			
	500 mΩ	0.6 % + 7.6 mΩ			
	900 mΩ	0.8 % + 9.0 mΩ			
	1.7 Ω	1.0 % + 11 mΩ			
	4.7 Ω	0.2 % + 30 mΩ			
	9 Ω	0.1 % + 42 mΩ			
	17 Ω	0.1 % + 77 mΩ			
	47 Ω	0.1 % + 222 mΩ			
	90 Ω	0.1 % + 381 mΩ			
	170 Ω	0.1 % + 834 mΩ			
	470 Ω	0.1 % + 2.1 Ω			
	900 Ω	0.1 % + 4.2 Ω			
1.7 kΩ	0.1 % + 8.0 Ω				
Leakage current	0 μA to 300 μA	0.55 % + 11.9 μA			
	300 μA to 3 mA	0.38 % + 14 μA			
	3mA to 3 mA	0.38 % + 35 μA			
Frequency	10 MHz reference	5 in 10 ⁸	Electronically triggered		
	1 mHz to 3 GHz	1.2 in 10 ⁶			
Timers and time interval	5 s to 24 hours	0.1 s			
Speed	0 rpm to 99999 rpm	0.12 rpm			



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DIMENSIONAL			
Micrometer	BS 870:2008 0 to 25 mm	0.002 mm	The stated uncertainty has been calculated in accordance With ISO 14253-5 and relates to the test value uncertainty.
Ancillary Measurements	Flatness Parallelism	0.002 mm 0.001 mm	
Caliper	ISO 13385-1 2019 Partial surface contact error (E) 0 to 300 mm	0.003 mm	The uncertainty quoted excludes contributions relating the instrument under test
	Shift error (S) internal jaws 3 to 50 mm	0.003 mm	
	Shift error (S) depth and step 3 to 50 mm	0.003 mm	
	Line contact error 10 mm	0.0009 mm	
	Shift error (S) – Crossed knife edge internal measuring faces 30 mm	0.0014 mm	



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MASS	20000 g	33.33 mg	Mass Comparators, E2 reference masses. Calibrations are performed using Borda's method of substitution
	10000 g	16.67 mg	
	5000 g	8.33 mg	
	2000 g	3.33 mg	
	1000 g	1.67 mg	
	500 g	0.833 mg	
	200 g	0.333 mg	
	100 g	0.166 mg	
	50 g	0.1 mg	
	20 g	0.083 mg	
	10 g	0.066 mg	
	5 g	0.053 mg	
	2 g	0.04 mg	
	1 g	0.033 mg	
	0.5 g	0.026 mg	
	0.2 g	0.02 mg	
	0.1 g	0.0107 mg	
	0.05 g	0.0133 mg	
	0.02 g	0.01 mg	
	0.01 g	0.0083 mg	
	0.005 g	0.0067 mg	
	0.002 g	0.0067 mg	
	0.001 g	0.0067 mg	
	NON AUTOMATIC WEIGHING MACHINES See notes 1 to 3 From 1 mg to 5000 kg	200 mg	
500 mg		0.017 mg	
1 g		0.017 mg	
2 g		0.019 mg	
5 g		0.024 mg	
10 g		0.033 mg	
20 g		0.045 mg	
50 g		0.074 mg	
100 g		0.15 mg	
200 g		0.28 mg	
500 g		0.96 mg	
1 kg		2.00 mg	
2 kg		3.88 mg	
5 kg	9.83 mg		
10 kg	19.28 mg		



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PRESSURE			Methods consistent with EURAMET CG17
<u>Hydraulic pressure (gauge)</u>			Pressure devices with an electrical output can be calibrated.
Calibration of pressure indicating instruments and gauges	0 MPa to 35 MPa 35 MPa to 70 MPa	Q [0.0065 %, 14 kPa] Q [0.0050 %, 22 kPa]	
<u>Gas pressure (gauge)</u>			Absolute pressure calibrations can be undertaken using associated barometric pressure measurement correction. The uncertainties quoted will be increased by 10 Pa
Calibration of pressure indicating instruments and gauges	-100 kPa to -3.5 kPa -3.5 kPa to -2.5 kPa -2.5 kPa to -1.25 kPa -1.25 kPa to -500 Pa -500 Pa to -250 Pa -250 Pa to 250 Pa 250 Pa to 500 Pa 500 Pa to 1.25 kPa 1.25 kPa to 2.5 kPa 2.5 kPa to 3.5 kPa 3.5 kPa to 20 kPa 20 kPa to 24 kPa 24 kPa to 3.5 MPa 3.5 MPa to 7 MPa	0.0045 % Q [0.010%, 2.6 Pa] Q [0.010%, 1.2 Pa] Q [0.010%, 0.75 Pa] Q [0.010%, 0.38 Pa] Q [0.0060 %, 0.23 Pa] Q [0.010%, 0.38 Pa] Q [0.010%, 0.75 Pa] Q [0.010%, 1.2 Pa] Q [0.010%, 2.6 Pa] 0.0046 % 0.0039 % 0.0076 % Q [0.0040%, 1.7 kPa]	
<u>Gas pressure (absolute)</u>			
Calibration of pressure indicating instruments and gauges	3.5 kPa to 20 kPa 20 kPa to 700 kPa 700 kPa to 3.5 MPa	Q [0.0047 %, 0.17 Pa] Q [0.0039 %, 0.17 Pa] Q [0.0076 %, 0.17 Pa]	
Vacuum	4×10^{-4} mbar to 1×10^{-3} mbar 1×10^{-3} mbar to 1×10^{-2} mbar 1×10^{-2} mbar to 1×10^{-1} mbar 0.1 mbar to 1 mbar 1 mbar to 13 mbar 13 mbar to 100 mbar 100 mbar to 1300 mbar	1.8×10^{-4} mbar to 2.0×10^{-4} mbar 1.9×10^{-4} mbar to 3.1×10^{-4} mbar 8.4×10^{-4} mbar to 1.3×10^{-3} mbar 0.0019 mbar to 0.011 mbar 0.0054 mbar to 0.052 mbar 0.13 mbar to 0.82 mbar 0.40 mbar to 2.8 mbar	Calibration by direct comparison against indications from various reference devices



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TEMPERATURE			
Platinum Resistance Thermometers	-38.8344 °C 0.010 °C 29.7646 °C 156.5985 °C 231.928 °C 419.527 °C	0.010 °C 0.0068 °C 0.0072 °C 0.011 °C 0.011 °C 0.011 °C	Calibration in fixed points Triple point of Mercury Triple point of Water Melting point of Gallium Melting point of Gallium Melting point of Tin Melting point of Zinc
Temperature sensors and indicators (inclusive of PRT's and thermocouples)	-80 to 230 °C	0.016 °C	In liquid baths
PRT's and indicators	-80 to -40 -40 to 0 0 to 140 140 to 200 200 to 300	0.090 °C 0.075 °C 0.075 °C 0.27 °C 0.35 °C	In dry blocks
Thermocouples and indicators	-80 to -40 -40 to 0 0 to 140 140 to 200 200 to 300	0.13 °C 0.090 °C 0.075 °C 0.30 °C 0.35 °C	In dry blocks
Base metal thermocouples (type T and type K only)	-80 to -40 °C - 40 to 0 °C 0 to 140 °C 140 to 200 °C 200 to 300 °C	0.31 °C 0.26 °C 0.26 °C 0.37 °C 0.43 °C	In dry blocks
Dry blocks	-80 to -40 °C -40 to 0 °C 0 to 140 °C 140 to 200 °C 200 to 300 °C	0.077 °C 0.065 °C 0.045 °C 0.27 °C 0.35 °C	Method consistent with Euramet CG 13, (Axial, Radial and stability measurements of the Instrument calibrated will replace "best quality instrument" components in the uncertainty budget)
Environmental chambers	0 to 100 °C	0.1 °C	Uncertainty may increase depending on chamber performance and gradient fluctuations
Data loggers	-20 to +60 °C	0.12 °C	



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HUMIDITY			
Calibration of hygrometers and temperature in air	Example conditions 5 %rh @ 23 °C 50 %rh @ 23 °C 95 %rh @ 23 °C 18 %rh @ 0 °C 50 %rh @ 0 °C 95 %rh @ 0 °C 50 %rh @ 50 °C 95 %rh @ 50 °C 5 %rh @ 60 °C 50 %rh @ 60 °C	0.20 %rh 0.57 %rh 1.02 %rh 0.30 %rh 0.80 %rh 1.40 %rh 0.44%rh 0.88 %rh 0.20 %rh 0.44 %rh	HygroGen Chamber and Chilled Mirror Hygrometer Humidity devices with an electrical output can be calibrated (we have the capability with our electrical equipment)
Temperature sensors incorporated in humidity instruments	0 °C to 60 °C	0.12 °C	
	Dew Point -25 °C to 60 °C	0.13 °C	Using a chilled mirror hygrometer
Humidity controlled chambers, including associated recorders, indicators and controllers	0 to 100 °C 5 %rh to 95 %rh Example conditions 75 %rh @ 50 °C 30 %rh @ 60 °C 11 %rh @ 70 °C 30 %rh @ 80 °C	0.1 °C 0.89 %rh 0.71 %rh 0.2 %rh 0.25 %rh	Using a chilled mirror hygrometer
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: $Q[a, b] = [a^2 + b^2]^{1/2}$