Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks
ELECTRICAL			
Electrical measurement and sourcin established ratio technique unless of	ng capabilities listed below follow the otherwise stated in the remarks colun	method of direct comparison against nn. This includes Time, Frequency an	laboratory references or d 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	0.6 μV 5.3 μV/V 3.2 μV/V 3.1 μV/V 4.7 μV/V	
DC Resistance	$\begin{array}{l} 0 \ \Omega \ to \ 1 \ \Omega \\ 1 \ \Omega \ to \ 2 \ \Omega \\ 2 \ \Omega \ to \ 20 \ \Omega \\ 20 \ \Omega \ to \ 200 \ \Omega \\ 200 \ \Omega \ to \ 200 \ \Omega \\ 200 \ \Omega \ to \ 200 \ R\Omega \\ 200 \ R\Omega \ to \ 200 \ R\Omega \\ 200 \ R\Omega \ to \ 200 \ R\Omega \\ 200 \ R\Omega \ to \ 200 \ R\Omega \\ 200 \ R\Omega \ to \ 200 \ M\Omega \\ 200 \ M\Omega \ to \ 200 \ M\Omega \\ 200 \ M\Omega \ to \ 200 \ M\Omega \\ 200 \ M\Omega \ to \ 200 \ M\Omega \\ 200 \ R\Omega \ to \ 200 \ R\Omega \\ 100 \ R\Omega \ to \ 200 \ R\Omega \\ 100 \ R\Omega \ to \ 200 \ R\Omega \ to \ 200 \ R\Omega \ to \ 200 \ R\Omega \\ 100 \ R\Omega \ to \ 200 \ R\Omega \ to \ 20$	13 μΩ 13 μΩ/Ω 8.3 μΩ/Ω 7.7 μΩ/Ω 7.7 μΩ/Ω 7.9 μΩ/Ω 9.6 μΩ/Ω 19 μΩ/Ω 110 μΩ/Ω 0.12 % 0.42 %	
Current carrying resistors	1 mΩ at:- 3 A 10 A 20 A 10 mΩ at:- 3 A 10 A 20 A	0.33 μΩ 0.15 μΩ 0.76 μΩ 2.6 μΩ 1.4 μΩ 0.70 μΩ	
DC Current	0 μA to 20 μA 20 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	1.7 nA 11 μΑ/Α 11 μΑ/Α 41 μΑ/Α 41 μΑ/Α 180 μΑ/Α 410 μΑ/Α	

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UKAS CALIBRATION 5204 Accredited to	Airbus Operations Ltd Issue No: 015 Issue date: 13 February 2025		
ISO/IEC 17025:2017			
	Calibration performe	ed at main address only	
Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty $(k = 2)$	Remarks
AC Voltage	2 mV to 200 mV 10Hz to 40Hz 40Hz to 100Hz 100Hz to 2kHz 2kHz to 10kHz 10kHz to 30kHz 30kHz to 100kHz 200 mV to 2 V 10Hz to 40Hz 40Hz to 100Hz 100Hz to 2kHz 2kHz to 10kHz 100kHz to 30kHz 30kHz to 100kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 2 V to 20 V 10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 100 kHz 10 kHz to 300 kHz 30 kHz to 100 kHz 10 kHz to 300 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	150 μ V/V 130 μ V/V 120 μ V/V 130 μ V/V 350 μ V/V 810 μ V/V 93 μ V/V 93 μ V/V 96 μ V/V 220 μ V/V 610 μ V/V 0.40 % 2.0 % 110 μ V/V 96 μ V/V 96 μ V/V 0.40 % 2.0 μ V/V 220 μ V/V 0.40 % 2.0 %	
AC Current	20 V to 200 V 10Hz to 40Hz 40Hz to 100Hz 100Hz to 2kHz 2kHz to 10kHz 10kHz to 30kHz 30kHz to 100kHz 200 V to 1 kV 10Hz to 40Hz 40Hz to 30 kHz 10 Hz to 10 kHz 200 µA 0.2 mA to 2 mA 2 mA to 20 mA 200 mA to 200 mA 200 mA to 2 A 2 A to 20 A	120 μV/V 97 μV/V 76 μV/V 98 μV/V 220 μV/V 610 μV/V 110 μV/V 250 μV/V 110 nA 370 μA/A 350 μA/A 360 μA/A 910 μA/A	

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks
DC Voltage 5700A system	0 mV to 200 mV 200 mV to 2 V 2 V to 11 V 11 V to 20 V 20 V to 200 V 200 V to 1 kV	7.0 μV/V + 0.70 μV 4.2 μV/V + 1.3 μV 4.2 μV/V + 4.1 μV 3.8 μV/V + 8.1 μV 4.2 μV/V + 8.1 μV 4.2 μV/V + 92 μV 4.8 μV/V + 580 μV	
DC Resistance 5700A system	0 Ω 1 Ω 1.9 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1 kΩ 1.9 kΩ 10 kΩ 10 kΩ 190 kΩ 100 kΩ 190 kΩ 190 kΩ 190 kΩ 190 MΩ 10 MΩ 10 MΩ	50 μΩ 75 μΩ/Ω 95 μΩ/Ω 28 μΩ/Ω 27 μΩ/Ω 17 μΩ/Ω 13 μΩ/Ω 13 μΩ/Ω 12 μΩ/Ω 14 μΩ/Ω 20 μΩ/Ω 21 μΩ/Ω 40 μΩ/Ω 40 μΩ/Ω 110 μΩ/Ω	
DC Current 5700A system	0 μA to 200 μA 200 μA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A	7.5 μA/A + 1.8 nA 26 μA/A + 4.6 nA 26 μA/A + 92 nA 33 μA/A + 290 nA 48 μA/A + 6.9 μA	
AC Voltage 5700A system	5 μV to 2 mV 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 500 kHz 500 kHz to 1 MHz 2 mV to 20 mV 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 500 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 500 kHz 500 kHz to 1 MHz	$\begin{array}{l} 550 \ \mu\text{V/V} + 4.5 \ \mu\text{V} \\ 210 \ \mu\text{V/V} + 4.5 \ \mu\text{V} \\ 110 \ \mu\text{V/V} + 4.5 \ \mu\text{V} \\ 370 \ \mu\text{V/V} + 4.5 \ \mu\text{V} \\ 850 \ \mu\text{V/V} + 7.0 \ \mu\text{V} \\ 0.11 \ \% + 13 \ \mu\text{V} \\ 0.17 \ \% + 25 \ \mu\text{V} \\ 0.34 \ \% + 25 \ \mu\text{V} \\ \hline \\ 550 \ \mu\text{V/V} + 5.0 \ \mu\text{V} \\ 210 \ \mu\text{V/V} + 5.0 \ \mu\text{V} \\ 110 \ \mu\text{V/V} + 5.0 \ \mu\text{V} \\ 370 \ \mu\text{V/V} + 5.0 \ \mu\text{V} \\ 850 \ \mu\text{V/V} + 7.0 \ \mu\text{V} \\ 0.11 \ \% + 13 \ \mu\text{V} \\ 0.17 \ \% + 25 \ \mu\text{V} \\ 0.34 \ \% + 25 \ \mu\text{V} \\ \hline \end{array}$	

	Scho United Kin 2 Pine Trees, Chertse	edule of Accreditati issued by gdom Accreditatio ey Lane, Staines-upon-Thar	i on n Service nes, TW18 3HR, UK
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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks
AC Voltage (continued) 5700A system	20 mV to 200 mV 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 500 kHz 500 kHz to 1 MHz 200 mV to 2 V 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 500 kHz 500 kHz to 1 MHz 2 V to 20 V 10 Hz to 20 Hz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 500 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 500 kHz 500 kHz to 1 MHz 2 V to 20 V 10 Hz to 20 Hz 20 V to 200 V 10 Hz to 20 Hz 20 kHz to 500 kHz 500 kHz to 1 MHz 20 V to 200 V 10 Hz to 20 Hz 20 kHz to 500 kHz 500 kHz to 100 kHz 100 kHz to 500 kHz 500 kHz to 100 kHz 100 kHz to 500 kHz 500 kHz to 1 MHz 200 V to 1.1 kV 15 Hz to 50 Hz 50 Hz to 1 kHz 20 µA to 200 µA 55 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz	550 μV/V + 13 μV 210 μV/V + 8.0 μV 370 μV/V + 8.0 μV 850 μV/V + 25 μV 500 μV/V + 25 μV 0.13 % + 35 μV 0.27 % + 80 μV 210 μV/V + 25 μV 110 μV/V + 6.0 μV 370 μV/V + 16 μV 850 μV/V + 70 μV 500 μV/V + 130 μV 0.13 % + 350 μV 0.27 % + 850 μV 550 μV/V + 800 μV 160 μV/V + 250 μV 75 μV/V + 60 μV 120 μV/V + 160 μV 250 μV/V + 15 mV 0.13 % + 4.3 mV 0.27 % + 8.5 mV 550 μV/V + 8.0 mV 160 μV/V + 3.0 mV 80 μV/V + 1.0 mV 220 μV/V + 4.0 mV 500 μV/V + 4.0 mV 100 μV/V + 1.0 mV 220 μV/V + 4.0 mV 100 μV/V + 4.0 mV 100 μV/V + 10 mV 200 μV/V + 4.0 mV 140 μA/A + 16 nA 600 μA/A + 400 nA 0.16 % + 800 nA	

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks
AC Current (continued) 5700A system	2 mA to 20 mA 55 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 20 mA to 200 mA 55 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 200 mA to 2.0 A 55 Hz to 1 kHz 4 kHz to 5 kHz	140 μA/A + 350 nA 600 μA/A + 4.0 μA 0.16 % + 8.0 μA 140 μA/A + 3.5 μA 600 μA/A + 40 μA 0.16 % + 80 μA	
5220A System	5 kHz to 10 kHz	750 μΑ/Α + 80 μΑ 0.85 % + 160 μΑ	This calibrator has a wider range of sourcing capabilities, below lists those extra points.
Resistance	$\begin{array}{c} 0 \ \Omega \ to \ 11 \ \Omega \\ 11 \ \Omega \ to \ 33 \ \Omega \\ 33 \ \Omega \ to \ 110 \ \Omega \\ 330 \ \Omega \ to \ 110 \ \Omega \\ 330 \ \Omega \ to \ 110 \ \Omega \\ 330 \ \Omega \ to \ 1.1 \ k\Omega \\ 1.1 \ k\Omega \ to \ 3.3 \ k\Omega \\ 3.3 \ k\Omega \ to \ 11 \ k\Omega \\ 11 \ k\Omega \ to \ 33 \ k\Omega \\ 33 \ k\Omega \ to \ 110 \ k\Omega \\ 110 \ k\Omega \ to \ 330 \ k\Omega \\ 330 \ k\Omega \ to \ 1.1 \ M\Omega \\ 1.1 \ M\Omega \ to \ 3.3 \ M\Omega \\ 3.3 \ M\Omega \ to \ 110 \ M\Omega \\ 330 \ M\Omega \ to \ 110 \ M\Omega \\ 330 \ M\Omega \ to \ 1100 \ M\Omega \\ \ M\Omega \ to \ 1100 \ M\Omega \\ \ M\Omega \ to \ 1100 \ M\Omega \\ \ M\Omega \ to \ 1100 \ M\Omega \\ \ M\Omega \ to \ 1100 \ M\Omega \\ \ M\Omega \ to \ 1100 \ M\Omega \\ \ M\Omega \ to \ 1100 \ M\Omega \\ \ M\Omega \ to \ 1100 \ M\Omega \ M\Omega \ to \ 1100 \ M\Omega \\ \ M\Omega \ to \ 1100 \ M\Omega \ to \ 11000 \ M\Omega \ to \ 1100 \ M\Omega \ to \ 1100 \ to \ 1100 \ to \ 10$	$\begin{array}{l} 40 \ \mu\Omega/\Omega \ + \ 1 \ m\Omega \\ 30 \ \mu\Omega/\Omega \ + \ 1.5 \ m\Omega \\ 28 \ \mu\Omega/\Omega \ + \ 1.4 \ m\Omega \\ 28 \ \mu\Omega/\Omega \ + \ 2.0 \ m\Omega \\ 28 \ \mu\Omega/\Omega \ + \ 2.0 \ m\Omega \\ 28 \ \mu\Omega/\Omega \ + \ 20 \ m\Omega \\ 28 \ \mu\Omega/\Omega \ + \ 20 \ m\Omega \\ 28 \ \mu\Omega/\Omega \ + \ 20 \ m\Omega \\ 28 \ \mu\Omega/\Omega \ + \ 20 \ m\Omega \\ 32 \ \mu\Omega/\Omega \ + \ 200 \ m\Omega \\ 32 \ \mu\Omega/\Omega \ + \ 200 \ m\Omega \\ 32 \ \mu\Omega/\Omega \ + \ 200 \ m\Omega \\ 32 \ \mu\Omega/\Omega \ + \ 200 \ m\Omega \\ 32 \ \mu\Omega/\Omega \ + \ 200 \ m\Omega \\ 32 \ \mu\Omega/\Omega \ + \ 200 \ m\Omega \\ 32 \ \mu\Omega/\Omega \ + \ 200 \ m\Omega \\ 32 \ \mu\Omega/\Omega \ + \ 200 \ m\Omega \\ 32 \ \mu\Omega/\Omega \ + \ 200 \ m\Omega \\ 33 \ \mu\Omega/\Omega \ + \ 200 \ m\Omega \\ 33 \ \mu\Omega/\Omega \ + \ 500 \ \Omega \\ 3.0 \ m\Omega/\Omega \ + \ 3.0 \ k\Omega \\ 15 \ m\Omega/\Omega \ + \ 500 \ k\Omega \end{array}$	Simulated values
DC Current	2 A to 3 A 3 A to 11 A 11 A to 20 A	620 μΑ 3.9 mA 15 mA	
AC current	2 A to 3 A 10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 3 A to 11 A 45 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 5 kHz	2.9 mA 0.85 mA 10 mA 43 mA 5.7 mA 8.5 mA 210 mA	
	11 A to 20.5 A 45 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 5 kHz	22 mA 26 mA 450 mA	

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
Capacitance	0.19 nF to 0.4 nF		These values are sourced by
	10 Hz to 10 kHz 0.4 nE to 1.1 nE	8.9 pF	simulation.
	10 Hz to 10 kHz 1 1 nE to 3 3 nE	12 pF	
	10 Hz to 3 kHz	19 pF	
	10 Hz to 1 kHz	27 pF	
	10 Hz to 1 kHz	136 pF	
	33 nF to 110 nF <i>10 Hz to 1 kHz</i>	270 pF	
	110 nF to 330 nF <i>10 Hz to 1 kHz</i> 330 nF to 1 1 µF	810 pF	
	10 Hz to 600 Hz	2.7 nF	
	10 Hz to 300 Hz	8.1 nF	
	10 Hz to 150 Hz	27 nF	
	11 μF to 33 μF 10 Hz to 120 Hz 33 μE to 110 μE	120 nF	
	10 Hz to 80 Hz	430 nF	
	DC to 50 Hz	1.3 µF	
	DC to 20 Hz	4.3 µF	
	1.1 mF to 3.3 mF <i>DC to 6 Hz</i> 3.3mF to 11 mF	13 µF	
	DC to 2 Hz 11 to 33 mF	43 µF	
	<i>DC to 0.6 Hz</i> 33 to 110 mF	200 µF	
	DC to 0.2 Hz	930 µF	
AC Resistance	50 Hz to 1 kHz		
	0Ω to 1Ω	5 mΩ	
Spot frequency 1 kHz ± 10 Hz	5 mΩ to 170 mΩ 170 mΩ to 1.9 Ω	0.35 % 0.95 %	Calibration of Aircraft loop test box.
AC Conductivity At a nominal 60 kHz 0.8 % IACS to 15 % IACS 15 % IACS to 59.56 % IACS 59.56 % IACS to 100 % IACS	0.14 MS/m to 0.26 MS/m 0.27 MS/m to 1.03 MS/m 1.03 MS/m to 58 MS/m	1.4 % of value 0.85 % of value 1.6 % of value	Note; 58.0 MS/m = 100 % on the International Annealed Copper Scale

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks
Frequency	10 MHz reference 1 mHz to 1 GHz	5 in 10 ¹⁰ 1 in 10 ⁹	
Time Repetitive events Single shot	10 ns to 103 s 10 ns to 103 s	1 ns 2 ns	Also suitable for stopwatches following NIST Special publication 960-12
Mechanically triggered events	100 ms to 103 s	50 ms	
Temperature Simulation Calibrators and displays Thermocouples Type:			Including reference junction compensation
к	-270 °C to -100 °C -100 °C to 120 °C 120 °C to 1372 °C	0.23 °C 0.14 °C 0.28 °C	
т	-250 °C to -150 °C -150 °C to 0 °C 0 °C to 400 °C	0.43 °C 0.19 °C 0.14 °C	
L	-210 °C to -100 °C -100 °C to 150 °C 150 °C to 1200 °C	0.19 °C 0.12 °C 0.16 °C	
Resistance thermometer (Pt 100)	-200°C to 800 °C	0.070 °C	

Reference Junction Compensation	Nominal Ambient 20 °C to 21 °C	0.050 °C	
FORCE MEASURING DEVICES			
Calibration of load cells (excluding proving devices) by force proving instruments in tension and compression	0.5 kN to 10 kN 1 kN to 25 kN 2.5 kN to 45 kN 20 kN to 250 kN 40 kN to 450 kN 100 kN to 900 kN 900 kN to 1200 kN	0.18 % 0.21 % 0.18 % 0.14 % 0.28 % 0.26 % 0.36 %	

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PRESSURE			All pressure calibrations performed by direct comparison to reference instruments Pressure devices with an electrical output can be calibrated.
Hydraulic pressure (gauge)	600 kPa to 6 MPa	Q[0.018%p,180Pa]	p in Pa
Calibration of pressure indicating instruments and gauges	6 MPa to 120 MPa	Q[0.020%p,180Pa]	
Gas pressure (gauge)			
Calibration of pressure indicating instruments and gauges	-99 kPa to -10 kPa -10 kPa to -3.5 kPa -3.5 kPa to 3.5 kPa 3.5 kPa to 10 kPa 10 kPa to 700 kPa 700 kPa to 12 MPa	0.010 % 0.012% 25 Pa 0.010 % 0.0080 % 0.012 %	Absolute pressure calibrations can be undertaken using associated barometric pressure measurement correction. The uncertainties quoted will be increased by 9.2 Pa
Gas pressure (absolute)			
Calibration of pressure indicating instruments and gauges	75 kPa to 115 kPa	9.2 Pa	
TEMPERATURE			
PRT (4 wire)	-90 °C to 125 °C 125 °C to 250 °C 250 °C to 350 °C -40 °C to 125 °C 125 °C to 250 °C 0.01 °C	0.15 °C 0.54 °C 0.80 °C 0.038 °C 0.034 °C 0.0055 °C	In a metal block calibrator In a metal block calibrator In a metal block calibrator In silicon oil bath In silicon oil bath In Triple Point of Water Cell
Temperature sensors and indicators	-90 °C to -40 °C 125 °C to 250 °C 250 °C to 350 °C -40 °C to 125 °C 125 °C to 250 °C 0.01 °C	0.15 °C 0.54 °C 0.80 °C 0.038 °C 0.034 °C 0.0055 °C	In a metal block calibrator In a metal block calibrator In a metal block calibrator In silicon oil bath In silicon oil bath In Triple Point of Water Cell
Thermocouples (base Metal)	-90 °C to -40 °C 125 °C to 250 °C 250 °C to 350 ∨ -40 °C to 125 °C 125 °C to 250 °C 0.01 °C	0.50 °C 0.61 °C 0.85 °C 0.38 °C 0.42 °C 0.32 °C	In a metal block calibrator In a metal block calibrator In a metal block calibrator In silicon oil bath In silicon oil bath In Triple Point of Water Cell

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Temperature Controlled Chambers, Environmental Cabinets, Furnaces, Liquid Baths, Fridges/Refrigerators, Freezers, Incubators and Ovens	-90 °C to 250 °C	0.18 + 0.0023*T °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping
			Including instruments incorporated in customers Freezers, fridges, ovens chambers incubators and furnaces
HUMIDITY			
Calibration of hygrometers and temperature in air	10 %rh to 95 %rh over a temperature range 5 °C to 50 °C	1.5% of value +0.2 %rh 0.20 °C	HygroGen Chamber
RELATIVE HUMIDITY			
Relative Humidity	Example conditions	Corresponding to above dew- point and temperature ranges and uncertainties	By comparison with dew-point hygrometer and Platinum Resistance Thermometers
	<u>At 5°C</u> 10 %rh 10 %rh to 95%rh	0.35 %rh 0,35 %rh ro 2.1 %rh	
	At 23 °C 5 %rh 5 %rh to 95%rh	0.22 %rh 0.22 %rh to 1.9% rh	
	<u>At 50 °C</u> 5 %rh 5 %rh to 95%rh	0.20 %rh 0.20 %rh to 1.6 %rh	
Dew Point Using a chilled mirror hygrometer			
Dew-Point	-25 °C to 60 °C	0.21 °C	Calibration can be performed on instruments with an electrical output.
END			



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] = $[a^2 + b^2]^{1/2}$