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			All electrical calibrations are performed as a comparison against a reference standard
DC RESISTANCE			against a reference standard
Fixed value sources for the calibration of measuring instruments	0.1 Ω 0.2 Ω 0.3 Ω 1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ	5.8 mΩ 41 mΩ 41 mΩ 6.0 mΩ 8.2 mΩ 490 μΩ 4.8 mΩ 49 mΩ 980 mΩ 33 Ω 3.1 kΩ 210 kΩ 12 MΩ	
For generating a stimulus that can be applied to measuring instruments also for measuring a stimulus provided by the device being calibrated	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 100 kΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ	17 μΩ/Ω + 59 μΩ 14 μΩ/Ω + 590 μΩ 12 μΩ/Ω + 740 μΩ 12 μΩ/Ω + 6.6 mΩ 12 μΩ/Ω + 76 mΩ 17 μΩ/Ω + 3.3 Ω 58 μΩ/Ω + 130 Ω 580 μΩ/Ω + 2.8 kΩ 0.58 % + 94 kΩ	
DC VOLTAGE			
Values can be generated for the calibration of measuring instruments	0 mV to 202 mV 202 mV to 1 V 1 V to 2.02 V 2.02 V to 10 V 10 V to 20.2 V 20.0 V to 100 V 100 V to 202 V 202 V to 1020 V	17 μ V/V + 2.5 μ V 10 μ V/V + 3.6 μ V 10 μ V/V + 7.6 μ V 9.8 μ V/V + 43 μ V 9.8 μ V/V + 72 μ V 14 μ V/V + 430 μ V 14 μ V/V + 720 μ V 14 μ V/V + 2.8 mV	
For measurement of instrument Outputs	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	5.8 μV/V + 390 nV 4.6 μV/V + 430 nV 4.6 μV/V + 1.2 μV 6.9 μV/V + 54 μV 15 μV/V + 1.3 mV	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty $(k = 2)$	Remarks
DC CURRENT			
Values can be generated for the calibration of measuring instruments	0 µA to 202 µA 202 µA to 1 mA 1 mA to 2.02 mA 2.02m A to 10 mA 10 mA to 20.2 mA 20.2 mA to 100 mA 100 mA to 202 mA 202 mA to 1 A 1 A to 2.02 A 2.02 A to 10 A 10 A to 20.2 A 20.2 A to 30 A 20 A to 1500 A	120 μA/A + 12 nA 58 μA/A + 35 nA 58 μA/A + 49 nA 58 μA/A + 230 n 58 μA/A + 2.3 μA 58 μA/A + 2.3 μA 58 μA/A + 9.0 μA 150 μA/A + 36 μA 150 μA/A + 100 μA 350 μA/A + 590 μA 350 μA/A + 760 μA 580 μA/A + 4.4 mA	Simulation with coil
For measurement of instrument outputs	0 μ A to 1 μ A 1 μ A to 10 μ A 10 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 10 mA 100 mA to 1 A 1 A to 3 A 3 A to 5 A 5 A to 10 A	24 μA/A + 48 pA 23 μA/A + 130 pA 23 μA/A + 950 pA 23 μA/A + 6.0 nA 23 μA/A + 60 nA 40 μA/A + 630 nA 130 μA/A + 13 μA 0.23 % + 750 μA 0.14 % + 2.6 mA 0.27 % + 4.4 mA	
AC VOLTAGE			
Values can be generated for the calibration of measuring instruments	20 mV to 202 mV 10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz 100 kHz to 500 kHz	920 μV/V + 62 μV 190 μV/V + 62 μV 230 μV/V + 56 μV 0.12 % + 84 μV 0.46 % + 2.5 mV	
	202 mV to 2.02 V 10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	580 μV/V + 320 μV 180 μV/V + 280 μV 240 μV/V + 450 μV 750 μV/V + 530 μV	
	2.02 V to 20.2 V 10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	580 μV/V + 3.0 mV 180 μV/V + 2.7 mV 240 μV/V + 4.4 mV 690 μV/V + 5.3 mV	
	20.2 V to 202 V 30 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 40 kHz	580 μV/V + 33 mV 170 μV/V + 28 mV 270 μV/V + 30 mV 350 μV/V + 53 mV	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
Generation (cont'd)	202 V to 1020 V 30 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	640 μV/V + 250 mV 230 μV/V + 110 mV 290 μV/V + 200 mV	
For measurement of instrument outputs	10 μV to 10 mV 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	230 μV/V + 2.6 μV 350 μV/V + 2.6 μV 0.12 % + 2.6 μV	
	10 mV to 100 mV 40 Hz to 1 kHz 1 kHz to 20 kHz	82 μV/V + 3.3 μV 160 μV/V + 3.3 μV	
	100 mV to 1 V 20 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	82 μV/V + 48 μV 82 μV/V + 27 μV 160 μV/V + 28 μV 350 μV/V + 30 μV 920 μV/V + 31 μV	
	1 V to 10 V 10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	82 μV/V + 510 μV 82 μV/V + 270 μV 160 μV/V + 270 μV 350 μV/V + 310 μV 920 μV/V + 320 μV 0.35 % + 1.2 mV 1.2 % + 3.2 mV	
	10 V to 100 V 10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	230 μV/V + 4.9 mV 230 μV/V + 2.8 mV 230 μV/V + 2.9 mV 400 μV/V + 3.2 mV 0.14 % + 3.8 mV	
	100 V to 700 V 10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 20 kHz	460 μV/V + 52 mV 460 μV/V + 26 mV 690 μV/V + 28 mV	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty $(k = 2)$	Remarks
AC CURRENT			
Values can be generated for the calibration of measuring Instruments	20 μA to 202 μA <i>40 Hz to 1 kHz</i>	580 μA/A + 180 nA	
	202 μA to 2.02 mA 40 Hz to 1 kHz	460 µA/A + 460 nA	
	2.02 mA 20.2 mA 40 Hz to 1 kHz	400 µA/A + 4.6 µA	
	20.2 mA to 202 mA <i>40 Hz to 1 kHz</i>	400 μA/A + 46 μA	
	202 mA to 2.02 A 40 Hz to 1 kHz	460 μA/A + 550 μA	
	2.02 A to 20 A 40 Hz to 100 Hz	650 μA/A + 6.0 mA	
	20 A to 30 A 40 Hz to 100 Hz	650 μA/A + 13 mA	
	20 A to 1500 A 40 Hz to 60 Hz	0.26 % + 13 mA	Simulation using coil
For measurement of instrument outputs	50 nA to 100 μA 100 Hz to 5 kHz	700 µA/A + 46 nA	
	100 μA to 1 mA 100 Hz to 5 kHz	350 µA/A + 230 nA	
	1 mA to 10 mA <i>10 Hz to 20 Hz</i> 20 Hz to 45 Hz 45 Hz to 5 kHz	0.46 % + 2.3 μA 0.17 % + 2.3 μA 690 μA/A + 2.3 μA	
	10 mA to 100 mA <i>10 Hz to 20 Hz</i> 20 Hz to 45 Hz 45 Hz to 5 kHz	0.17 % + 24 μA 690 μA/A + 24 μA 350 μA/A + 24 μA	
	100 mA to 1 A <i>10 Hz to 20 Hz</i> 20 Hz to 45 Hz 45 Hz to 5 kHz	0.46 % + 240 μA 920 μA/A + 240 μA 0.12 % + 240 μA	
	1 A to 3 A 10 Hz to 5 kHz	0.27 % + 580 µA	
	3 A to 5 A 10 Hz to 5 kHz	0.27 % + 11 mA	
	5 A to 10 A 10 Hz to 5 kHz	0.29 % + 11 mA	



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Calibration performed at main address only

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
CAPACITANCE			
Values can be generated for the calibration of measuring Instruments	<i>At 1 kHz:</i> 1 nF 10 nF 20 nF 50 nF 100 nF 1 μF 10 μF	3.5 pF 31 pF 64 pF 150 pF 290 pF 4.6 nF 69 nF	
These range values can also be measured	1 pF to 100 pF 100 pF to 1000 pF 1 nF to 10 nF 10 nF to 100 nF 0.1 μF to 1 μF 1 μF to 10 μF	0.12 % + 0.12 pF 0.12 % + 0.33 pF 0.12 % + 3.1 pF 0.12 % + 31 pF 0.12 % + 310 pF 0.12 % + 0.31 nF	Comparison against LCR bridge
INDUCTANCE Values can be generated for the calibration of measuring instruments	At 1 kHz: 1 mH 10 mH 100 mH 1 H	5.9 μH 58 μH 580 μH 5.8 mH	
These range values can also be measured	0.1 mH to 1 mH 1 mH to 10 mH 10 mH to 100 mH 0.1 H to 1 H	0.12 % + 0.39 μH 0.27 % + 3.9 μH 0.12 % + 35 μH 0.12 % + 300 μH	Comparison against LCR bridge
FREQUENCY Value can be generated for the calibration of measuring instruments			
	10 MHz reference	1.0 part in to 10 ¹²	Frequency may also expressed time; 1/f for repetitive signals, in terms of seconds or other units such as RPM.
For generating a stimulus that can be applied to measuring instruments also for measuring a stimulus provided by the device being calibrated	1 Hz to 30 MHz	1.5 parts in to 10 ¹² + 0.60 μHz	
	30 MHz to 4 GHz	2.0 parts in to 10 ¹²	
Rotatioal speed - Optical			
Measurement	10 RPM to 99.99 RPM 100 RPM to 999.9 RPM 1000 RPM to 99999 RPM	2.3 RPM 2.4 RPM 3.3 RPM	
Generation	60 RPM to 3000 RPM 3000 RPM to 60000 RPM	0.12 RPM 1.2 RPM	

Assessment Manager: MJLP



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
TEMPERATURE SIMULATION			
PT 100	-200 °C to +800 °C	0.065 °C	
Ambient	17 °C to 23 °C	0.20 °C	
juncton compensation INCLUDED			
Base Thermocouples			
Туре Е	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 1000 °C	0.22 °C 0.21 °C 0.22 °C	
Туре Ј	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 1200 °C	0.24 °C 0.21 °C 0.22 °C	
Туре К	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 1372 °C	0.27 °C 0.22 °C 0.24 °C	
Туре N	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 1300 °C	0.35 °C 0.24 °C 0.24 °C	
Туре Т	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 400 °C	0.27 °C 0.23 °C 0.21 °C	
Noble thermocouples			
Туре В	600 °C to 1820 °C	0.52 °C	
Type R	-50 °C to 0 °C 0 °C to 400 °C 400 °C to 1767 °C	0.78 °C 0.57 °C 0.36 °C	
Type S	-50 °C to 0 °C 0 °C to 400 °C 400 °C to 1767 °C	0.65 °C 0.55 °C 0.40 °C	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty $(k = 2)$	Remarks
Temperature indicators and calibrators by electrical simulation Reference junction compensation EXCLUDED			
Base Thermocouples			
Туре Е	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 1000 °C	0.22 °C 0.19 °C 0.20 °C	
Type J	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 1200 °C	0.24 °C 0.19 °C 0.20 °C	
Туре К	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 1372 °C	0.26 °C 0.21 °C 0.22 °C	
Type N	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 1300 °C	0.35 °C 0.22 °C 0.22 °C	
Туре Т	-200 °C to -100 °C -100 °C to 0 °C 0 °C to 400 °C	0.26 °C 0.21 °C 0.20 °C	
Noble thermocouples			
Туре В	600 °C to 1820 °C	0.52 °C	
Type R	-50 °C to 0 °C 0 °C to 400 °C 400 °C to 1767 °C	0.77 °C 0.56 °C 0.35 °C	
Type S	-50 °C to 0 °C 0 °C to 400 °C 400 °C to 1767 °C	0.65 °C 0.55 °C 0.39 °C	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
EQUIPMENT FOR IEE 16 TH / 17 TH	/ 18 TH EDITION WIRING TESTING		
LOOP TESTERS			
AC Resistance at 50 Hz	Nominal applied resistances 0.05Ω 0.10Ω 0.21Ω 0.32Ω 0.5Ω 1Ω 5Ω 10Ω 100Ω $1 k\Omega$	$\begin{array}{l} 4.7 \ m\Omega \\ 4.8 \ m\Omega \\ 4.9 \ m\Omega \\ 5.1 \ m\Omega \\ 5.6 \ m\Omega \\ 8.6 \ m\Omega \\ 31 \ m\Omega \\ 59 \ m\Omega \\ 580 \ m\Omega \\ 5.9 \ \Omega \end{array}$	
CONTINUITY TESTERS			
DC Resistance	20 mΩ 200 mΩ to 2 Ω 4 Ω 6 Ω 8 Ω 10 Ω 20 Ω 100 Ω 1 kΩ	29 mΩ 29 mΩ 31 mΩ 34 mΩ 37 mΩ 41 mΩ 65 mΩ 290 mΩ 2.9 Ω	
Continuity Current Measurement	10 mA 100 mA 200 mA 300 mA	1.1 mA 1.7 mA 3.1 mA 4.6 mA	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
INSULATION TESTERS			
DC Resistance	10 kΩ 20 kΩ 30 kΩ 40 kΩ 60 kΩ 100 kΩ 200 kΩ 400 kΩ 600 kΩ 1 MΩ 2 MΩ 3 MΩ 4 MΩ 5 MΩ 6 MΩ 7 MΩ 8 MΩ 9 MΩ 10 MΩ 20 MΩ 30 MΩ 40 MΩ 50 MΩ	12 Ω 23 Ω 35 Ω 46 Ω 69 Ω 120 Ω 230 Ω 460 Ω 690 Ω 1.2 kΩ 2.3 kΩ 3.5 kΩ 4.6 kΩ 58 kΩ 69 kΩ 81 kΩ 92 kΩ 100 kΩ 230 kΩ 350 kΩ 460 kΩ 580 kΩ 690 kΩ 810 kΩ 930 kΩ 1.2 MΩ 2.8 MΩ 5.6 MΩ 8.5 MΩ 11 MΩ 14 MΩ 580 MΩ	
DC Voltage	50 V 100 V 150 V 200 V 250 V 500 V 1000 V	1.1 V 1.5 V 2.0 V 2.5 V 3.0 V 5.9 V 12 V	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty $(k = 2)$	Remarks
EARTH BOND TESTERS			
AC Resistance at 50 Hz	Nominal applied resistance 0.04Ω 0.1Ω 0.15Ω 0.27Ω 0.38Ω 0.55Ω 1Ω 5Ω 10Ω 100Ω $1 k\Omega$	4.7 mΩ 4.8 mΩ 5.0 mΩ 5.2 mΩ 5.8 mΩ 7.8 mΩ 30 mΩ 59 mΩ 580 mΩ 5.8 Ω	
AC Current at 50 Hz	100 mA 200 mA 400 mA 4 A 8 A 10 A 20 A	7.3 mA 7.9 mA 9.9 mA 100 mA 160 mA 190 mA 440 mA	
LEAKAGE TESTERS			
DC Current	2 mA 5 mA 10 mA	36 μΑ 82 μΑ 130 μΑ	
RCD TESTERS			
RCD Trip Time	20 ms 40 ms 100 ms 200 ms 390 ms 900 ms	680 µs 680 µs 680 µs 680 µs 680 µs 8.1 ms	
RCD Trip Current at 50 Hz	10 mA 30 mA 90 mA 100 mA 110 mA 150 mA 300 mA 1 A 2 A	620 μA 1.7 mA 5.2 mA 5.8 mA 6.4 mA 17 mA 17 mA 58 mA 120 mA	
AC Voltage Source at 50 Hz	100 V 200 V 230 V 300 V 400 V	0.37 V 0.45 V 0.65 V 0.82 V 0.99 V	
Line Voltage Measurement	200 V to 260 V	2.4 V	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
PRESSURE Gas Pressure (Gauge)			Methods consistent with EURAMET CG17. Calibration of devices with an electrical output may be undertaken.
Calibration of pressure indicating instruments and gauges	-95 kPa to -10 kPa -10 kPa to -1.5 kPa 1.5 kPa to 10 kPa 10 kPa to 100 kPa 100 kPa to 2.5 MPa 2.5 MPa to 11.1 MPa	0.005 1 % 0.004 7 % + 0.15 Pa 0.003 8 % + 0.15 Pa 0.004 1 % 0.004 4 % 0.006 6 %	Calibration using deadweight testers. Absolute pressures can be generated over these ranges attracting an additional uncertainty of 0.15 Pa.
Calibration of pressure indicating instruments and gauges	3.5 kPa to 200 kPa 100 kPa to 2.1 MPa -95 kPa to +21 MPa	0.004 6 % + 13 Pa 0.002 5 % + 90 Pa 0.006 1 % + 2.0 kPa	Calibration using pressure controllers.
Gas Pressure (Absolute)			
Calibration of pressure indicating instruments and gauges	3.5 kPa to 100 kPa 3.5 kPa to 800 kPa 3.5 kPa to 7 MPa 100 kPa to 41.4 MPa	0.007 5 % + 3.8 Pa 0.018 % + 24 Pa 0.010 % + 210 Pa 0.007 4 % + 1.7 kPa	Calibration using pressure controllers.
Hydraulic Pressure (Gauge)			
Calibration of pressure indicating instruments and gauges	0.6 MPa to 6.0 MPa 6 MPa to 70 MPa 70 MPa to 138 MPa	0.007 6 % 0.006 2 % 0.010 %	Calibration using deadweight testers. Absolute pressures can be generated over these ranges attracting an additional uncertainty of 0.15 Pa.
TEMPERATURE			, ,
Sensors with indicators	-95 °C to -50 °C -50 °C to +140 °C 140 °C to 660 °C	0.10 °C 0.050 °C 0.10 °C	Calibrations performed in a Metal block
	-80 °C to 0 °C 0 °C to 100 °C	0.011 °C 0.011 °C	Calibrations performed in liquid bath
	0.01 °C	0.0050 °C	Triple point of water
Metal block calibrators and portable liquid baths	-95 °C to +660 °C	Uncertainty as for sensor and indicator	
HUMIDITY			
Relative humidity	At 0 °C 5 %rh 50 %rh 90 %rh At 23 °C	0.20 %rh 0.90 %rh 1.6 %rh	
	5 %rh to 10 %rh 10 %rh to 50 %rh 50 %rh to 95 %rh	0.21 %rh 0.75 %rh 1.8 %rh	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
HUMIDITY (continued)			
Relative humidity	At 60 °C 5 %rh 50 %rh 90 %rh	0.20 %rh 0.60 %rh 1.0 %rh	
TEMPERATURE IN AIR	0 °C to 23 °C 23 °C 23 °C to 60 °C	0.14 °C 0.12 °C 0.14 °C	
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: $Q[a, b] = [a^2 + b^2]^{1/2}$