


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0509 Accredited to ISO/IEC 17025:2017	Ministry of Defence Issue No: 052 Issue date: 15 May 2026	
	Calibration Centre Bolkiah Garrison BB3510 Negara Brunei Darussalam	Contact: Mr Sofri Rahman Tel: +673-2-385322 E-Mail: cal_lab@mindef.gov.bn

Calibration performed by the Organisations at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code	
Address Calibration Centre Bolkiah Garrison BB3510 Negara Brunei Darussalam	Local contact Mr Sofri Rahman +673-2-386475	Electrical, DC and LF Electrical, RF and microwave Mass Temperature Pressure Humidity Torque Force	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code	
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.	Local contact Mr Sofri Rahman +673-2-386475	Mass Temperature Rotational speed and elapsed time	B



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
Values and uncertainties listed below are applicable for the calibration of both measurement instruments and for instruments with an output. the method used is by direct comparison unless otherwise stated in the remarks column				
ELECTRICAL				
DC VOLTAGE	10 V Reference	0.50 μ V/V	This uncertainty can be realised with voltage standards within 0.002 % of the nominal voltage and only if they have their own temperature controlled enclosure of appropriate thermal stability	A
Decade Values	10 μ V, 100 μ V and 1 mV 10 mV 100 mV 1 V 10 V 100 V 1 kV	0.50 μ V 70 μ V/V 10 μ V/V 2.5 μ V/V 1.5 μ V/V 3.0 μ V/V 2.5 μ V/V	The stated CMCs are for values that lie within 0.5 % of those listed.	
Other values	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1 kV	1.0 μ V 8.0 μ V/V 7.0 μ V/V 11 μ V/V 18 μ V/V		
DC RESISTANCE				A
Specific values				
Generation	0.1 Ω 1 Ω 1.9 Ω 10 Ω 100 Ω 1 k Ω 10 k Ω 19 k Ω 100 k Ω 1 M Ω 10 M Ω 19 M Ω 100 M Ω 1 G Ω	4.0 μ V/V 4.0 μ V/V 16 μ V/V 4.0 μ V/V 4.0 μ V/V 4.0 μ V/V 4.0 μ V/V 10 μ V/V 3.5 μ V/V 4.0 μ V/V 3.5 μ V/V 35 μ V/V 9.0 μ V/V 170 μ V/V		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL (continued) DC RESISTANCE (continued) Specific Values (continued) Measurement	0.1 Ω 1 Ω 10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω 1 M Ω 10 M Ω 100 M Ω 1.9 Ω 19 k Ω 19 M Ω 1 G Ω	7.0 $\mu\Omega/\Omega$ 5.5 $\mu\Omega/\Omega$ 5.5 $\mu\Omega/\Omega$ 5.0 $\mu\Omega/\Omega$ 5.0 $\mu\Omega/\Omega$ 5.0 $\mu\Omega/\Omega$ 5.0 $\mu\Omega/\Omega$ 6.5 $\mu\Omega/\Omega$ 13 $\mu\Omega/\Omega$ 40 $\mu\Omega/\Omega$ 12 $\mu\Omega/\Omega$ 8.0 $\mu\Omega/\Omega$ 30 $\mu\Omega/\Omega$ 165 $\mu\Omega/\Omega$	The stated CMCs are for values that lie within 10 % of those listed.	A
Other values Current carrying resistors	0 m Ω to 1 m Ω 1 m Ω to 10 m Ω 10 m Ω to 100 m Ω	0.050 % + 0.70 $\mu\Omega$ 0.090 % + 3.0 $\mu\Omega$ 0.024 % + 30 $\mu\Omega$	At 5 A DC At 5 A DC At 1 A DC	
	0 Ω to 0.1 Ω 0.1 Ω to 1 Ω 1 Ω to 5 Ω 5 Ω to 12 Ω 12 Ω to 50 Ω 50 Ω to 120 Ω 120 Ω to 120 k Ω 120 k Ω to 500 k Ω 500 k Ω to 1.2 M Ω 1.2 M Ω to 5 M Ω 5 M Ω to 12 M Ω 12 M Ω to 120 M Ω 120 M Ω to 1 G Ω	60 $\mu\Omega$ 610 $\mu\Omega/\Omega$ 66 $\mu\Omega/\Omega$ 29 $\mu\Omega/\Omega$ 54 $\mu\Omega/\Omega$ 24 $\mu\Omega/\Omega$ 18 $\mu\Omega/\Omega$ 33 $\mu\Omega/\Omega$ 26 $\mu\Omega/\Omega$ 130 $\mu\Omega/\Omega$ 86 $\mu\Omega/\Omega$ 830 $\mu\Omega/\Omega$ 0.90 %		
DC CURRENT	0 μ A to 1 μ A 1 μ A to 100 mA 100 mA to 10 A 10 A to 20 A	75 pA 65 μ A/A 60 μ A/A 110 μ A/A		A



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL (continued)				A
AC VOLTAGE Specific values Set frequencies	40 Hz, 1 kHz, 10 kHz, 20 kHz and 50 kHz			
	10 mV	215 μ V/V		
	20 mV	170 μ V/V		
	100 mV	90 μ V/V		
	200 mV	90 μ V/V		
	600 mV	90 μ V/V		
	1 V	65 μ V/V		
	2 V	65 μ V/V		
	6 V	65 μ V/V		
	10 V	65 μ V/V		
	20 V	65 μ V/V		
	60 V	65 μ V/V		
	100 V	65 μ V/V		
	200 V	65 μ V/V		
	1 kV	75 μ V/V		
Specific values range frequencies	10 mV			
	100 Hz and 400 Hz	205 μ V/V		
	20 mV			
	500 Hz	170 μ V/V		
	100 mV			
	100 Hz and 400 Hz	90 μ V/V		
	200 mV and 600 mV			
	500 Hz	90 μ V/V		
	1 V			
	100 Hz and 400 Hz	65 μ V/V		
	2 V and 6 V			
	500 Hz	65 μ V/V		
	10 V			
	100 Hz and 400 Hz	65 μ V/V		
	20 V and 60 V			
	500 Hz	65 μ V/V		
	100 V			
	100 Hz and 400 Hz	65 μ V/V		
	200 V			
	500 Hz	65 μ V/V		
	1000 V			
	400 Hz and 500 Hz	75 μ V/V		



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ELECTRICAL (continued)				A
AC VOLTAGE Specific values (continued) Specific frequencies	2 mV to 10 mV	0.35 %		
	5 mV to 12 mV	0.15 %		
	20 Hz to 40 Hz	0.13 %		
	40 Hz to 1 kHz	0.14 %		
	1 kHz to 20 kHz	0.18 %		
	20 kHz to 50 kHz	0.60 %		
	50 kHz to 100 kHz			
Other values	12 mV to 50 mV	0.067 %		
	20 Hz to 40 Hz	0.054 %		
	40 Hz to 1 kHz	0.055 %		
	1 kHz to 20 kHz	0.067 %		
	20 kHz to 50 kHz	0.11 %		
	50 kHz to 100 kHz			
	50 mV to 120 mV	295 μ V/V		
	20 Hz to 40 Hz	170 μ V/V		
	40 Hz to 1 kHz	220 μ V/V		
	1 kHz to 20 kHz	440 μ V/V		
	20 kHz to 50 kHz	965 μ V/V		
	50 kHz to 100 kHz			
	120 mV to 500 mV	130 μ V/V		
	20 Hz to 40 Hz	230 μ V/V		
	40 Hz to 1 kHz	270 μ V/V		
	1 kHz to 20 kHz	410 μ V/V		
	20 kHz to 50 kHz	950 μ V/V		
	50 kHz to 100 kHz			
	500 mV to 1.2 V	150 μ V/V		
	20 Hz to 40 Hz	125 μ V/V		
	40 Hz to 1 kHz	185 μ V/V		
	1 kHz to 20 kHz	360 μ V/V		
	20 kHz to 50 kHz	930 μ V/V		
	50 kHz to 100 kHz			
	1.2 V to 5 V	410 μ V/V		
	20 Hz to 40 Hz	230 μ V/V		
	40 Hz to 1 kHz	270 μ V/V		
	1 kHz to 20 kHz	410 μ V/V		
	20 kHz to 50 kHz	950 μ V/V		
	50 kHz to 100 kHz			



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
Other values (continued)	5 V to 12 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	160 μ V/V 130 μ V/V 190 μ V/V 360 μ V/V 930 μ V/V		A
	12 V to 50 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	460 μ V/V 315 μ V/V 315 μ V/V 460 μ V/V 0.15 %		
	50 V to 120 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	270 μ V/V 250 μ V/V 250 μ V/V 420 μ V/V 0.14 %		
	120 V to 500 V 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz	0.062 % 0.081 % 0.15 %		
	500 V to 1 kV 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz	0.059 % 0.079 % 0.15 %		
AC CURRENT	10 mA to 12 mA 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz	0.25 % 0.11 % 0.060 %		A
	12 mA to 50 mA 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz	0.32 % 0.22 % 0.21 %		
	50 mA to 120 mA 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz	0.26 % 0.11 % 0.070 %		
	120 mA to 500 mA 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz	0.33 % 0.24 % 0.26 %		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
AC CURRENT continued	500 mA to 1 A 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz	0.27 % 0.14 % 0.18 %		A
	1 A to 10 A 40 Hz to 1 kHz	0.070 %		
	10 A to 20 A 40 Hz to 400 Hz	0.10 %		
DISTORTION Distortion Factor	0.1 % to 0.25 % 0.2 V to 0.5 V	33 %	The capabilities for distortion factor relate to fundamental components in the frequency range 20 Hz to 100 kHz.	A
	0.1 % to 0.4 % 0.5 V to 2 V	17 %		
	0.1 % to 0.25 % 2 V to 5 V	9.0 %		
	0.25 % to 100 % 2 V to 300 V	8.0 %		
FREQUENCY Specific values	100 kHz 1 MHz 5 MHz 10 MHz	2.7 parts in 10^{11} 2.7 parts in 10^{11} 5.4 parts in 10^{12} 3.0 parts in 10^{12}		A
Other Values	dc to 100 Hz 100 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 1 MHz 1 MHz to 10 MHz 10 MHz to 100 MHz 100 MHz to 1 GHz 1 GHz	26 μ Hz 160 μ Hz 26 μ Hz 160 μ Hz 1.6 mHz 16 mHz 160 mHz 1.6 Hz	Can be reported as elapsed time for repetitive events. 1/f	
Rotational speed and elapsed time RPM	10 RPM to 12 000 RPM 10 RPM to 100 000 RPM	0.10 RPM 0.60 RPM	Mechanical Tachometer. Optical Tachometers Centrifuges and Calibrators	A & B



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TIME INTERVAL Stopwatch elapsed time	10 s to 1 Hr 1 Hr to 1 day	41 ms 231 ms	Manually Triggered	A & B
RF POWER Signal sources	300 kHz to 4.2 GHz + 20 dBm to - 20 dBm	0.24 dB	The stated CMCs relate to the calibration of stable 50 Ω coaxial sources having an output VSWR of 1.01 or less and fitted with Type N connectors.	A
Specific frequencies	2 MHz, 10 MHz, 15 MHz, 25 MHz, 30 MHz, 43 MHz, 50 MHz, 60 MHz, 88 MHz, 100 MHz, 125 MHz, 180 MHz, 200 MHz, 250 MHz, 350 MHz, 400 MHz and 500 MHz 1 W to 100 W	3.0 %		
	550 MHz 600 MHz 650 MHz, 700 MHz, 750 MHz, 800 MHz, 850 MHz, 900 MHz, 950 MHz 1 GHz 1 W to 100 W	4.0 %		
RF ATTENUATION	0 dB, to 40 dB 50 MHz to 6 GHz	0.10 dB	The uncertainties for RF attenuation and VRC refer to a 50 Ω coaxial system using type N precision connectors	A
VOLTAGE REFLECTION COEFFICIENT SWR	1.0 to 1.20 (0 to 0.1) 50 MHz to 6 GHz	0.050		A
TUNED RF LEVEL With respect to 1 mW into 50 Ω	3 MHz to 1.3 GHz 0 dBm to -40 dBm -40 dBm to -80 dBm -80 dBm to -120 dB	0.27 dB 0.32 dB 0.38 dB		A



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RF CALIBRATION FACTOR				A
Substitution Method	100 kHz 300 kHz 500 kHz 1 MHz 3 MHz 5 MHz 10 MHz 30 MHz 100 MHz 300 MHz 500 MHz 1 GHz 1.5 GHz 2 GHz 2.6 GHz	3.0 % 2.1 % 1.9 % 1.7 % 1.7 % 1.7 % 1.7 % 1.7 % 1.7 % 1.7 % 1.7 % 1.7 % 1.7 % 1.7 % 1.7 %	Referenced to 1 mW at 50 MHz	
Splitter method	100 kHz to 4.2 GHz 300 kHz 500 kHz 1 MHz 3 MHz 10 MHz 50 MHz 100 MHz 300 MHz 1 GHz 2 GHz 3 GHz 4.2 GHz	2.7 % 1.4 % 1.2 % 1.0 % 1.1 % 1.1 % 1.1 % 1.0 % 1.0 % 1.0 % 1.0 % 1.2 % 1.6 %	Referenced to 1 mW at 50 MHz	
CAPACITANCE and DISSIPATION FACTOR Specific frequencies	1 pF 1 kHz to 100 kHz 1 MHz 10 pF 1 kHz to 100 kHz 1 MHz 100 pF 1 kHz to 100 kHz 1 MHz 1000 pF 1 kHz to 100 kHz 1 MHz	C_p (pF) 0.0037 0.0043 0.0033 0.0028 0.031 0.057 0.62 0.72	D (tan δ) 0.0027 0.0029 0.00049 0.0013 0.00034 0.00036 0.00037 0.00036	A
			For the calibration of standard four terminal pair capacitors. The CMCs quoted for dissipation factor apply to D values between zero and 0.002	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
OSCILLOSCOPE CALIBRATION				A
TIME INTERVAL (Horizontal deflection coefficients)	1 μ s 5 μ s 20 μ s 500 μ s 1 ms 5 ms 10 ms 50 ms 100 ms	25 ns 139 ns 551 ns 11 μ s 23 μ s 111 μ s 233 μ s 1.1 ms 2.3 ms		
DC AMPLITUDE (Vertical deflection coefficients)	10 mV 20 mV 50 mV 100 mV 200 mV 500 mV 1 V 2 V 5 V 10 V	0.14 mV 0.20 mV 0.47 mV 0.91 mV 2.0 mV 6.0 mV 12 mV 30 mV 62 mV 120 mV		
RISETIME	1 ns to 10 ns 1 ns to 10 ns 1 ns to 10 ns	217 ps 214 ps 213 ps	Nominal 25 mV Nominal 250 mV Nominal 1 V	
BANDWIDTH	50 kHz to 300 MHz	1.7 % 4.2 %	Digital Oscilloscopes Analogue Oscilloscopes	



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MASS	Nominal value (g)	(mg)	Borda's Substitution Method	
Artefacts	26 000 25 000 20 000 10 000 5 000 2 000 1 000 500 200 100 50 20 10 5 2 1 0.5 0.2 0.1 0.05 0.02 0.01 0.005 0.002 0.001	20 20 10 5.4 2.7 1.0 0.53 0.27 0.10 0.053 0.033 0.027 0.020 0.017 0.013 0.010 0.0083 0.0067 0.0053 0.0040 0.0033 0.0027 0.0020 0.0020 0.0020	E2 from 1 mg to 26 kg Calibrations can be given in other units as required. Intermediate values can be calibrated to an uncertainty interpolated from the next higher and lower values in the table.	A
Non-Automatic Weighing Machines	5g 10g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 50 kg 100 kg 200 kg 250 kg 500 kg	0.023 mg 0.032 mg 0.044 mg 0.073 mg 0.13 mg 0.27 mg 0.69 mg 1.3 mg 3.8 mg 9.6 mg 19 mg 306 mg 770 mg 1.7 g 5.2 g 5.6 g 8.9 g	Methods consistent with EURAMET CG18 Weights are available in OIML Class E2 from 1 mg to 20 kg F1 from 1 mg to 20 kg Max grouped load 62 kg M1 From 1 kg to 20 kg Max. grouped load 260 kg Other loads within the overall listed range may also be used Max. grouped load 500 kg	A & B



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TORQUE Hand torque tools (Wrenches only)	1.4 N·m to 1356 N·m	1.6 %	BS EN ISO 6789:2:2017 The uncertainty quoted is for both the application of the calibration torque and the characteristics of the device being calibrated. Calibrations may also be given in lbf-in and lbf-ft.	A
FORCE	4.45 kN to 44.48 kN (1000 lbf to 10 000 lbf)	0.40 %	Calibration of force measuring devices e.g. load cells and load measuring rings but excluding proving devices. Compression only.	A
TEMPERATURE Temperature indicators with sensors	-30 °C to 0 °C 0 °C 0 °C to 100 °C 100 °C to 300 °C	0.56 °C 0.43 °C 0.59 °C 1.0 °C	Calibration by comparison with reference instruments In liquid bath For -30 °C, only probes length ≥ 150 mm	A
Calibration of temperature probes in air	0 °C to 70 °C	1.0 °C		A
Temperature controlled, chambers, environmental cabinets fridges, freezers, ovens and similar apparatus	25 °C to 100 °C 100 °C to 175 °C 175 °C to 250 °C	1.2 °C 1.4 °C 1.6 °C	multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	A & B
RELATIVE HUMIDITY Hygrometers	35 %rh 50 %rh 80 %rh	1.3 %rh 1.0 %rh 0.85 %rh	Calibration by comparison with reference salt solutions For the temperature range 15 °C to 30 °C	A



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RELATIVE HUMIDITY (cont'd) Hygrometers	35 %rh to 80 %rh At 15 °C At 20 °C At 25 °C At 30 °C	3.1 %rh to 5.0 %rh 2.9 %rh to 3.9 %rh 2.8 %rh to 3.5 %rh 3.0 %rh to 3.8 %rh	In air Chamber by comparison with reference hygrometer and Platinum Resistance Thermometers Instrument sensor volume less than 15 mm x 15 mm larger instruments will have a larger uncertainty	A
PRESSURE <u>Hydraulic Pressure (Gauge)</u> "Pressure equivalent" calibration of dead weight-testers.	500 kPa to 3.5 MPa 3.5 MPa to 7 MPa 7 MPa to 70 MPa 70 MPa to 140 MPa	0.012 % 0.0067 % + 42 Pa 0.0067 % + 42 Pa 0.0069 % + 42 Pa	Methods consistent with EURAMET CG3 and CG17	A
Calibration of pressure indicating instruments and gauges	500 kPa to 3.5 MPa 3.5 MPa to 7 MPa 7 MPa to 70 MPa 70 MPa to 140 MPa	0.012 % 0.0067 % + 42 Pa 0.0067 % + 42 Pa 0.0069 % + 42 Pa	Calibration of pressure measuring devices with an electrical output may be undertaken.	A
<u>Pneumatic Pressure (Gauge)</u> Calibration of pressure indicating instruments and gauges	-80 kPa to 350 kPa	0.0091 % + 40 Pa	Pressure measurements may be expressed in other units of pressure as required.	A
<u>Pneumatic Pressure (Absolute)</u> Calibration of pressure indicating instruments and gauges	20 kPa to 350 kPa	0.0091 % + 2.9 Pa		A

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