

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS CALIBRATION 0820 Accredited to ISO/IEC 17025:2017	SGS United Kingdom Limited Issue No: 026 Issue date: 24 December 2025	
	Metrology Laboratory Unit 1, Rossmore Business Park Ellesmere Port South Wirral Cheshire CH65 3EN	Contact: Darryl Devaney Tel: +44 (0)7889 939567 E-Mail: darryl.devaney@sgs.com Website: www.sgs.com

Calibration performed by the Organisation at the locations specified

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code	
Address Metrology Laboratory Unit 1, Rossmore Business Park Ellesmere Port South Wirral Cheshire CH65 3EN	Local contact Steven Williams	Gas flow Hydrocarbon flow Volume tanks and provers	A
Address 2 Martin Close Blenheim Industrial Estate Bulwell Nottingham NG6 8UW	Local contact Sam Cooke	Dimensional Electrical Pressure Temperature Humidity	B



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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: Steven Williams	Hydrocarbon flow Volume tanks and provers	A1
	Local Contact: Sam Cooke	Dimensional Pressure Temperature	B1



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code	
FLOW Gas meters Volume passed	0.15 m ³ to 350 m ³ at flow rates of: 0.2 m ³ /h to 65 m ³ /h 1 m ³ /h to 400 m ³ /h 150 m ³ /h to 4500 m ³ /h	0.42 % 0.36 % 0.40 %	Calibration against reference meters using air	A	
	30 litres to 300 litres at flowrates of: 40 l/h to 6000 l/h 40 l/h to 10000 l/h 40 l/h to 65000 l/h	0.28 % 0.30 % 0.47 %	Calibration against bell provers using air	A	
	30 litres to 300 litres at flow rates of: 40 l/h 600 l/h 1200 l/h 6000 l/h	0.52 % 0.47 % 0.46 % 0.46 %	Calibration against sonic nozzles using air.	A	
	Hydrocarbon oil flow meters Volume passed	500, 2500 & 5000 litres at flow rates from 50 l min ⁻¹ to 5000 l min ⁻¹	0.052 % of measured quantity	Calibrations can be carried out using Kerosene at ambient temperature and pressures of up to 3 bar.	A
		3000 litres at flow rates from 50 l min ⁻¹ to 3000 l min ⁻¹	0.052 % of measured quantity	Calibration carried out using diesel, gas oil, kerosene or motor oil and water at ambient temperature and pressures of up to 3 bar	A1
	VOLUME Calibration of Prover Tanks	100 litres to 5000 litres	0.020 % of measured quantity	Calibration carried out using water	A + A1
Calibration of Pipe Provers and Compact Provers using Waterdraw Method		60 litres to 40000 litres	0.025 % of measured quantity	Calibration carried out using water	A + A1
Calibration of Pipe Provers and Compact Provers using Master Meter Method		300 litres to 40000 litres	0.030 % of measured quantity	Calibration carried out using water	A + A1
Calibration of Pipe Provers and Compact Provers using Master Meter Method		300 litres to 40000 litres	0.045 % of measured quantity	Calibration carried out using hydrocarbons	A1



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH				B
Plain plug gauges (parallel), cylindrical setting standards and rollers	1 to 50	0.50	<u>Notes</u> Note 1: plain cylindrical limit gauges are calibrated using a single axis measuring machine and reference standards Note 2: using gauge block Note 3: using a single axis measuring machine Note 4: thread gauges are calibrated using NPL methods described in Notes on Applied Science No. 1	B
	50 to 100	0.80		B
	100 to 150	1.0		B
	150 to 200	1.2		B
	200 to 300	1.6		B
Thread measuring cylinders	BS 5590 0.1 to 5	0.50		B
Plain ring gauges (parallel) and setting standards	2 to 10 diameter	1.0		B
	10 to 25	0.80		B
	25 to 50	1.0		B
	50 to 100	1.5		B
	100 to 150	2.0	B	
150 to 250	3.0	B		
Length gauges, flat and spherical ended	0 to 600	1.0 + (8.0 x length in m)	B	
Plain gap gauges (parallel)	0.5 to 100	3.0	B	
	100 to 200	5.0	B	
	200 to 300	8.0	B	
Feeler Gauges and paint thickness foils	BS 957:2008 0.025 to 1	1.0	B	
Screw plug gauges (parallel) including check and setting plugs See Note 3	1 to 100 diameter	2.5 on pitch diameter	B	
	100 to 150	5.0 on pitch diameter	B	
	150 to 200	8.0 on pitch diameter	B	
Screw plug gauges (taper) including check plugs See Note 2	5 to 100 diameter	5.0 on pitch diameter	B	
Screw ring gauges (parallel) See Notes 3 and 4	3 to 75 diameter	5.0 on pitch diameter	B	
	75 to 150	7.0 on pitch diameter	B	
	150 to 250	10 on pitch diameter	B	
Screw ring gauges (taper) See Note 2	6 up to 150 diameter	7.0 on pitch diameter	B	
Screw pitch Screw flank angle	0.2 to 8	1.5	B	
	0° to 52°	5.0 minutes of arc	B	
Parallels	BS906:1972 5 to 50 x 100 x 400	1.5 up to 5.0	B	
Vee blocks	BS 3731:1987 20 to 150	2.5 to 5.0	B	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
Receiver, position and profile gauges, jigs, fixtures See note 5	Maximum dimensions 0 to 1000 x 750 x 500 (Limited to gauges where a specific procedure and uncertainty budget are available).	Minimum per co-ordinate: 3.0 + (10 x length in m)	Documented in-house methods using a cmm and first principles	B
ANGLE				
Squares Blade type	BS 939:2007 50 to 300 300 to 600	3.0 On squareness 5.0 See Note 1		B
Angle plates and box angle plates	BS 5535:1978 50 to 600	Squareness: 3.0 + (1.0 per 100 mm) Parallelism: 1.0 + (1.0 per 100 mm) See Note 1		B
Sine bars and tables	BS 3064:1978 0 to 500 length	Linear dimensions: 1.0 + (10 x length in m) Overall performance: 3.0 seconds of arc		B
FORM				
Surface plates Granite and Cast iron	BS 817:2008 and above 160 x 100 to 1600 x 1000	1.5 + (0.80 diagonal in m) See Note 1		B
Precision balls, steel, tungsten carbide and ceramic	1 to 50 diameter	0.50 on diameter	Single axis measuring machine and reference standards	B
MEASURING INSTRUMENTS AND MACHINES				B
Micrometers External	BS 870:2008 0 to 600	Heads: 2.0		B
Internal	BS 959:2008 0 to 900	Setting and extension rods 1.0 + (8.0 x length in m)		
Depth	BS 6468:2008 0 to 300			
Micrometer heads	BS 1734:1951 0 to 50	1.0		B
Vernier caliper, height and depth gauges	BS 887:2008 0 to 1000 BS 1643:2008 0 to 1000 BS 6365:2008 0 to 600	Overall performance 10 + (30 x length in m)		B



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
Calipers	ISO13385-1:2019 0 to 1000	1.4 + (3.9 x length in metres) Test value uncertainty calculated in line with ISO13385-1:2019.	Documented in-house methods	B
Height gauges - (Simple) including vernier, dial and digital types.	As BS EN ISO 13225:2012 0 to 1000	Length measurement error (E): 2.0 + (5.0 x length in metres)		B
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50	1.0		B
Comparators (external)	BS 1054:1975 250 to 10 000 magnifications	1.0 % of range Minimum 0.20		B
Graduated rules	BS 4372:1968 0 to 1000	5.0 + (10 x length in m)		B
Bevel protractors	BS 1685:2008 0° to 360°	6.0 minutes of arc		B
Electronic height gauges with microprocessor control	0 to 1000	2.0 + (5.0 x length in m)		B
ANCILLERY MEASUREMENTS				B
Flatness		0.3		Ancillary measurements made for completeness of calibration. Best CMC's are dependent on methodology and range.
Parallelism		1.0		
Squareness		3.0		
Straightness		2.0		
Notes for length, angle and form				B
1. The uncertainty quoted is for the departure from flatness, straightness, parallelism, or squareness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration.				
2. Single start, symmetrical thread forms only.				
3. Single and multi-start symmetrical and asymmetrical thread forms.				
4. Includes use of check plugs for screw rings from 1 mm to 14 mm diameter				
Features and associated parts of these gauges can be measured to the uncertainties given for equivalent items listed in this schedule.				



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL				
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 1000 V 1kV to 50 kV	10 μ V/V + 0.80 μ V 7.0 μ V/V + 1.0 μ V 8.0 μ V/V + 3.5 μ V 8.0 μ V/V + 60 μ V 8.0 μ V/V + 0.60 mV 0.20 % + 7.0 V	Electrical calibrations are performed as a comparison against a reference standard. These values can be generated for the calibration of measuring instruments. Outputs of instruments can be measured directly.	B
DC Resistance	0 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 1 G Ω	25 $\mu\Omega/\Omega$ + 24 $\mu\Omega$ 11 $\mu\Omega/\Omega$ + 0.10 m Ω 9.0 $\mu\Omega/\Omega$ + 0.80 m Ω 9.0 $\mu\Omega/\Omega$ + 8.0 m Ω 13 $\mu\Omega/\Omega$ + 80 m Ω 22 $\mu\Omega/\Omega$ + 1.7 Ω 38 $\mu\Omega/\Omega$ + 100 Ω 200 $\mu\Omega/\Omega$ + 11 k Ω 0.12 % + 0.11 M Ω		B
DC Current	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 A to 30 A	35 μ A/A + 0.80 nA 30 μ A/A + 6.0 nA 35 μ A/A + 52 nA 46 μ A/A + 1.2 μ A 70 μ A/A + 25 μ A 400 μ A/A + 0.30 mA		B
AC Voltage	20 Hz to 60 Hz 1 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V 60 Hz to 3 kHz 1 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V 3 kHz to 30 kHz 1 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 3 kHz to 10 kHz 200 V to 1000 V	0.025 % + 5.0 μ V 0.024 % + 24 μ V 0.021 % + 0.24 mV 0.021 % + 2.3 mV 0.024 % + 12 mV 0.022 % + 5.0 μ V 0.014 % + 24 μ V 0.014 % + 0.24 mV 0.015 % + 2.4 mV 0.020 % + 12 mV 0.025 % + 10 μ V 0.015 % + 50 μ V 0.015 % + 0.50 mV 0.016 % + 5.0 mV 0.040 % + 120 mV		B B B



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
AC Voltage	30 kHz to 100 kHz 1 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V	0.060 % + 24 μ V 0.075 % + 0.24 mV 0.030 % + 2.4 mV 0.050 % + 23 mV		B
	100 kHz to 500 kHz 200 mV to 2 V 2 V to 20 V	0.20 % + 2.4 mV 0.30 % + 24 mV		B
	500 kHz to 1 MHz 200 mV to 2 V 2 V to 20 V	0.25 % + 24 mV 0.26 % + 230 mV		B
	50 Hz 1 kV to 50 kV	0.60 % + 60 V		B
AC Current	40 Hz to 1 kHz 1 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA	0.040 % + 24 nA 0.040 % + 0.24 μ A 0.040 % + 2.4 μ A 0.045 % + 24 μ A		B
	40 Hz to 100 Hz 200 mA to 2 A	0.030 % + 0.50 mA		
	100 Hz to 1 kHz 200 mA to 2 A	0.065 % + 1.0 mA		
	1 kHz to 5 kHz 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	0.10 % + 24 nA 0.075 % + 0.24 μ A 0.075 % + 2.4 μ A 0.090 % + 24 μ A 0.14 % + 1.0 mA		B
	50 Hz to 60 Hz 2 A to 30 A	0.040 % + 2.5 mA		B



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
Electrical calibration of temperature indicators sources for the following sensors types:				
Noble metal thermocouples	0 °C to 1600 °C	0.50 °C	Including cold junction compensation	B
	0 °C to 1600 °C	0.15 °C	Cold junction disabled	B
Base metal thermocouples	-200 °C to +1300 °C	0.13 °C	Including cold junction compensation	B
	-200 °C to +1300 °C	0.060 °C	Cold junction disabled	B
Resistance sensors	-200 °C to +250 °C +250 °C to +650 °C	5.0 m°C 30 m°C		B
Cold junction compensation of thermocouple indicators and sources	At ambient temperature	0.10 °C		B
Capacitance Sourcing	1 nF 10 nF 20 nF 50 nF 100 nF 1 µF 10 µF	4.2 pF 30 pF 48 pF 72 pF 93 pF 2.0 nF 50 nF		B
Frequency Measurement	0 Hz to 3 GHz 3 GHz to 26 GHz	4.0 in 10^{12} + 3.0 mHz 3.0 in 10^9		B
Generation	0 Hz to 6 GHz	4.0 in 10^{12}		B
Period	10 ns to 1700 s	1.5 in 10^9	Repetitive events	B
t	1 s to 8×10^5 s	8.0 in 10^9	Repetitive events	B
	1 s to 30 minutes	20 ms		B
	60 RPM to 60 000 RPM	0.50 % + 0.20 RPM		B



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
17th and 18th edition electrical test instruments			Using the calibrator to generate known quantities to simulate measurements made by the Electrical Test Instruments.	B
Insulation Testers:				B
Resistance	10 k Ω to 10 M Ω	0.30 %		B
	10 M Ω to 100 M Ω	0.85 %		
	100 M Ω to 1 G Ω	1.5 %		
Output Voltage DC	50 V to 1000 V	0.40 %		B
Output Current DC	0 mA to 1 mA	0.060 % + 6.0 μ A		B
Continuity Resistance	50 m Ω to 1 Ω	0.30 % + 12 m Ω		B
	1 Ω to 50 k Ω	0.40 %		
Continuity Current DC	0 mA to 320 mA	0.70 mA		B
Voltage AC	100 V to 400 V at 50 Hz	0.40 %		B
Loop Testers:				B
Loop Resistance	0 Ω to 5 Ω	0.60 % + 24 m Ω		B
	9 Ω to 1000 Ω	0.60 % + 45 m Ω		
RCD Testers:				B
Current Measurement AC	0.1mA to 3000mA at 50 Hz	1.4 % + 0.070 mA		B
Trip time	0 ms to 390 ms	0.70 ms		B
	390 ms to 5 s	8.2 ms		
Appliance Testers:				B
Insulation Resistance	0.1 M Ω to 10 M Ω	0.30 %		B
Earth Bond Resistance	50 m Ω to 10 Ω	0.60 % + 8.0 m Ω		B
	10 Ω to 1000 Ω	0.60 % + 35 m Ω		
Earth Bond Current AC	0.1 mA to 500 mA at 50 Hz	1.75 % + 7.0 mA		B
	500 mA to 30 A at 50 Hz	1.75 % + 75 mA		B
Leakage Current AC	1 mA to 8 mA at 50 Hz	1.75 % + 10 μ A		
Flash Test (Accessory)				B
AC Voltage	0.1 kV to 3 kV at 50 Hz	2.0 % + 12 V		B
AC Leakage Current	0.1 mA to 3 mA at 50 Hz	6.0 % + 17 μ A	B	
Electrical verification of ultrasonic flaw detection equipment	AS BS EN 2236-1:2020 group 2 method b and BS EN 12668-1:2010 Group 2 & BS EN ISO 22232-1:2020		B	
	Stability after warm up (height)	0.30 % of screen height	B	
	Stability after warm up (width)	0.020 % of screen width	B	
	Jitter – screen height	0.30 % of screen height	B	
	Jitter – screen width	0.30 % of screen width	B	
	Stability against supply variations (height)	0.30 % of screen height	B	
	Stability against supply variations (width)	0.020 % of screen width	B	
	Pulsar Voltage	3.6 V	B	
	Pulsar Rise Time	1.8 ns	B	
	Pulsar Reverberation	1.0 % of pulsar voltage	B	
	Pulse Duration	1.7 ns	B	
	Frequency Response	30 kHz at -3 dB point	B	
	0.1 MHz to 25 MHz			
	Equivalent input noise	2.4 x 10 ⁻⁹ V \sqrt Hz	B	
	Calibrated Attenuator	0.60 dB	B	
	0 MHz to 100 MHz			
	Vertical Linearity	0.70 % of screen height	B	
	Linearity of Timebase	0.30 % relative to 20 % and 80 % of the horizontal scale	B	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
PRESSURE				
Gas Pressure Gauge			Methods consistent with EURAMET CG17	B & B1
Calibration of pressure indicating instruments and gauges	-95 kPa to -20 kPa -20 kPa to 20 kPa 20 kPa to 200 kPa 200 kPa to 2 MPa	0.012 % + 66 Pa 0.015 % + 11 Pa 0.012 % + 66 Pa 0.012 % + 590 Pa		
Gas Pressure Absolute				
Calibration of pressure indicating instruments and gauges	3.5 kPa to 120 kPa 120 kPa to 200 kPa	100 Pa 140 Pa		B & B1
Hydraulic Pressure Gauge				
Calibration of pressure indicating instruments and gauges	0 Pa to 10 MPa 10 MPa to 70 MPa	3.0 kPa 0.015 % + 20 kPa		B & B1
TEMPERATURE			Calibration by Comparison with reference instruments.	B & B1
Resistance thermometers	-20 °C to +100 °C 100 °C to 250 °C -20 °C to 600 °C 50 °C to 300 °C 300 °C to 600 °C	0.055 °C 0.075 °C 0.15 °C 0.50 °C 1.3 °C	Liquid bath Block calibrator Block calibrator	B B1
Thermocouples	-20 °C to 250 °C -20 °C to 600 °C 600 °C to 1100 °C 1100 °C to 1300 °C 0 °C to 130 °C 130 °C to 350 °C 350 °C to 600 °C	0.50 °C 0.90 °C 1.9 °C 2.8 °C 0.60 °C 0.85 °C 1.5 °C	Liquid bath Block calibrator Spherical furnace Block calibrator	B B1
Temperature indicators with probes	-20 °C to +100 °C 100 °C to 250 °C 250 °C to 600 °C	0.060 °C 0.090 °C 0.15 °C	Liquid bath Block calibrator	B
	Ambient (typically 20 °C) 0 °C to 130 °C 130 °C to 350 °C -20 °C to 600 °C	0.070 °C 0.50 °C 0.80 °C 1.4 °C	Ambient air Block calibrator	B B1
Dry Block Calibrators	250 °C to -20 °C	0.13 °C		B
Radiation thermometers (Pyrometers)	0 °C to +100 °C 100 °C to 200 °C 200 °C to 350 °C 350 °C to 500 °C	1.0 °C 1.5 °C 2.5 °C 3.5 °C	Radiation thermometers working in the wavelength range 8 µm to 14 µm	B
Calibration in air chamber	5 °C to 23 °C 23 °C to 60 °C	0.10 °C 0.15 °C	Comparison in air chamber	B



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HUMIDITY Relative humidity meters	At 5 °C to 12 °C 15 %rh to 90 %rh	0.45 %rh to 1.9 %rh	Calibration by comparison with a reference hygrometer and reference thermometers.	B
	At 12 °C to 23 °C 10 %rh to 90 %rh	0.50 %rh to 1.9 %rh	Comparison in air chamber	B
	At 23 °C to 60 °C 10 %rh to 90 %rh	0.50 %rh to 1.6 %rh		B
				B
DIMENSIONAL Surface plates Granite and Cast iron	BS 817:2008 and above 160 x 100 to 1600 x 1000	1.5 + (0.80 diagonal in m) See Note 1		B1
	Electronic height gauges with microprocessor control	0 to 1000		B1
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: $Q[a, b] = [a^2 + b^2]^{1/2}$