

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS CALIBRATION 4332 Accredited to ISO/IEC 17025:2017	Compli Group Ltd	
	Issue No: 014 Issue date: 23 September 2021	
	Unit 1 Cabot Business Village Holyrood Close Poole Dorset BH17 7BA	Contact: Mr Matthew Suter Tel: +44 (0)1202 658333 Fax: +44 (0)1202 659966 E-Mail: m.suter@pooleinstruments.com Website: www.pooleinstruments.co.uk

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 Unit 1 Cabot Business Village Holyrood Close Poole Dorset BH17 7BA Local contact Mr Matthew Suter Tel: +44 (0)1202 658333 Fax: +44 (0)1202 659966 Email: m.suter@pooleinstruments.com	Electrical, Temperature and Dimensional.	P

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.	Electrical and Temperature.	S



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL			Electrical calibrations are performed as a comparison against a reference standard	
DC Voltage Measurement	0 mV to 50 mV 50 mV to 100 mV 100 mV to 500 mV 500 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1 kV	1.6 μ V 2.4 μ V 11 μ V 16 μ V 65 μ V 1.5 mV 12 mV	Outputs of instruments can be measured to the stated uncertainties	P
Generation			Values can be generated for the calibration of measuring instruments	P
DC Current Measurement	0 mV to 200 mV 200 mV to 1 V 1 V to 2 V 2 V to 10 V 10 V to 20 V 20 V to 200 V 200 V to 1000 V	4.0 μ V 21 μ V 38 μ V 85 μ V 0.18 mV 3.5 mV 15 mV		
	0 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 30 A	3.0 nA 22 nA 0.2 μ A 5.0 μ A 0.2 mA 5.0 mA 25 mA	Outputs of instruments can be measured to the stated uncertainties	P



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL (cont'd)			Electrical calibrations are performed as a comparison against a reference standard	
DC Current Generation	0 μ A to 20 μ A 20 μ A to 100 μ A 100 μ A to 200 μ A 0.2 mA to 1 mA 1 mA to 2 mA 2 mA to 5 mA 5 mA to 10 mA 10 mA to 20 mA 20 mA to 100 mA 100 mA to 200 mA 0.2 A to 1 A 1 A to 2 A 2 A to 10A 10 A to 20A 20 A to 30A	3.0 nA 9.0 nA 15 nA 35 nA 75 nA 0.2 μ A 0.4 μ A 1.0 μ A 11 μ A 17 μ A 80 μ A 0.25 mA 4.0 mA 5.5 mA 8.0 mA	Values can be generated for the calibration of measuring instruments	P
	0 A to 60 A 60 A to 300 A 300 A to 1500 A	100 mA 160 mA 650 mA	Simulated current using multi turn coil, for the calibration of clamp-on ammeters.	P
DC Resistance Measurement	0 m Ω to 10 m Ω 10 m Ω to 100 m Ω 0.1 Ω to 1 Ω 1 Ω to 10 Ω 10 Ω to 100 Ω 0.1 k Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 0.1 M Ω to 1 M Ω 1 M Ω to 5 M Ω 5 M Ω to 10 M Ω 10 M Ω to 50 M Ω 50 M Ω to 100 M Ω 0.1 G Ω to 1 G Ω 1 G Ω to 10 G Ω 10 G Ω to 100 G Ω 0.1 T Ω to 1 T Ω	25 $\mu\Omega$ 50 $\mu\Omega$ 0.1 m Ω 0.2 m Ω 1.4 m Ω 14 m Ω 81 m Ω 1.5 Ω 14 Ω 0.60 k Ω 0.80 k Ω 80 k Ω 0.12 M Ω 1.5 M Ω 200 M Ω 2.5 G Ω 70 G Ω	Outputs of instruments can be measured to the stated uncertainties	P



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ELECTRICAL (cont'd)			Electrical calibrations are performed as a comparison against a reference standard	
DC Resistance (cont'd)				
Generation (2 wire)	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 G Ω	35 m Ω 100 m Ω 60 m Ω 70 m Ω 0.65 Ω 3.0 Ω 90 Ω 1.5 k Ω 0.15 M Ω 7.5 M Ω	Nominal values can be generated for the calibration of measuring instruments 2 Wire	P
Generation (4 wire)	100 m Ω 1 Ω 10 Ω 100 Ω 1k Ω 10 k Ω 100 k Ω	0.50 m Ω 1.5 m Ω 2.0 m Ω 4.5 m Ω 30 m Ω 0.30 Ω 3.5 Ω	Nominal values can be generated for the calibration of measuring instruments 4 Wire	P
AC Voltage Measurement	40 Hz to 10 kHz 25 mV to 50 mV 50 mV to 100 mV 0.1 V to 0.5 V 0.5 V to 1 V 1 V to 10 V 10 V to 100 V 100 V to 500 V 500 V to 1000 V	27 μ V 37 μ V 0.10 mV 0.14 mV 1.6 mV 20 mV 0.17 V 0.25 V	Outputs of instruments can be measured to the stated uncertainties	P



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ELECTRICAL (cont'd)			Electrical calibrations are performed as a comparison against a reference standard	
AC Voltage (cont'd)				
Generation	<i>40 Hz to 1 kHz</i> 0 mV to 100 mV 100 mV to 200 mV 0.2 V to 1 V 1 V to 1.5 V 1.5 V to 2 V 2 V to 15 V 15 V to 20 V 20 V to 100 V 100 V to 200 V <i>46 Hz to 1 kHz</i> 200 V to 700 V 700 V to 1000 V	65 μ V 85 μ V 0.55 mV 0.75 mV 1.1 mV 8.0 mV 14 mV 85 mV 0.10 V 0.5 V 1.0 V	Values can be generated for the calibration of measuring instruments	P
AC Current				
Measurement	<i>40 Hz to 3 kHz</i> 0 μ A to 50 μ A 50 μ A to 100 μ A 0.1 mA to 0.5 mA 0.5 mA to 1 mA <i>40 Hz to 5 kHz</i> 1 mA to 5 mA 5 mA to 10 mA 10 mA to 50 mA 50 mA to 100 mA <i>40 Hz to 1 kHz</i> 0.1 A to 0.5 A 0.5 A to 1 A 1 A to 10 A 10 A to 30 A	64 nA 74 nA 0.42 μ A 0.56 μ A 5.0 μ A 6.2 μ A 45 μ A 58 μ A 0.52 mA 0.75 mA 15 mA 40 mA	Outputs of instruments can be measured to the stated uncertainties	P



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ELECTRICAL (cont'd)			Electrical calibrations are performed as a comparison against a reference standard	
AC Current (cont'd)				
Generation	40 Hz to 1 kHz 0 μ A to 200 μ A 0.2 mA to 0.5 mA 0.5 mA to 1 mA 1 mA to 2 mA 2 mA to 5 mA 5 mA to 10 mA 10 mA to 20 mA 20 mA to 50 mA 50 mA to 100 mA 100 mA to 200 mA 0.2 A to 1 A 1 A to 2 A 2 A to 10 A 10 A to 20 A 20 A to 30 A	0.35 μ A 0.60 μ A 0.90 μ A 1.6 μ A 5.0 μ A 8.0 μ A 14 μ A 50 μ A 90 μ A 0.15 mA 1.5 mA 2.2 mA 25 mA 30 mA 0.12 A	Values can be generated for the calibration of measuring instruments	P
Capacitance	50 Hz 0 A to 60 A 60 A to 300 A 300 A to 1500 A	100 mA 270 mA 1.2 A	Simulated current using multi turn coil, for the calibration of clamp-on ammeters.	
Generation	1 nF 10 nF 20 nF 50 nF 100 nF 1 μ F 10 μ F	4.0 pF 20 pF 40 pF 0.10 nF 0.15 nF 7.0 nF 30 nF	Nominal values can be generated for the calibration of measuring instruments	P
Frequency				
Generation	10 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz to 10 MHz	1.0 mHz 6.0 mHz 60 mHz 120 mHz 300 mHz 0.60 Hz 6.0Hz 70 Hz	Values can be generated for the calibration of measuring instruments	P



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TEMPERATURE SIMULATION				
Temperature indicators, calibration by electrical simulation, for the following sensor types:				
Noble metal thermocouples				
Type R	0 °C to 1700 °C	0.50 °C	with cold junction Compensation	P
Type S	-50 °C to +1700 °C	0.50 °C		
Base metal thermocouples				
Type K	-140 °C to +1340 °C	0.30 °C	with cold junction Compensation	P
Type J	-150 °C to +750 °C	0.30 °C		
Type T	-250 °C to +400 °C	0.40 °C		
Type N	-150 °C to +1300 °C	0.30 °C		
Type E	0 °C to 800 °C	0.32 °C		
Resistance thermometer (Pt100)	-100 °C 0 °C 30 °C 60 °C 100 °C 200 °C 400 °C 800 °C	0.050 °C 0.030 °C 0.040 °C 0.050 °C 0.050 °C 0.060 °C 0.070 °C 0.080 °C	Nominal values	P
Base metal thermocouples				
Type K	-50 °C to +1300 °C	0.71 °C	with cold junction Compensation	S
Type J	-50 °C to +1100 °C	0.60 °C		
Type T	-50 °C to +390 °C	0.76 °C		
Type N	-50 °C to +1300 °C	0.93 °C		
Resistance thermometer (Pt100)	-50 °C to +600 °C	0.28 °C		S
Temperature simulators, calibration by electrical simulation, for the following sensor types:				
Noble metal thermocouples				
Type R	0 °C to 1600 °C	0.70 °C	with cold junction Compensation	P
Type S	0 °C to 1600 °C	0.70 °C		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
TEMPERATURE SIMULATION (cont'd)			Temperature simulation calibrations are performed as a comparison against a reference standard	
Temperature indicators, calibration by electrical simulation, for the following sensor types: (cont'd)				
Base metal thermocouples			with cold junction Compensation	P
Type K	-150 °C to +555 °C 555 °C to 1300 °C	0.50 °C 0.50 °C		
Type J	-150 °C to +1100 °C	0.50 °C		
Type T	-150 °C to +100 °C 100 °C to 390 °C	0.50 °C 0.50 °C		
Type N	-150 °C to +1250 °C	0.50 °C		
Type E	-150 °C to +355 °C 355 °C to 900 °C	0.60 °C 0.40 °C		
Resistance thermometer	-200 °C to 0 °C 0 °C to 800 °C	0.010 °C 0.020 °C		P
Base metal thermocouples			with cold junction Compensation	S
Type K	-50 °C to 0 °C 0 °C to 1300 °C	1.0 °C 1.0 °C		
Type J	-50 °C to +750 °C	1.0 °C		
Type T	-50 °C to 0 °C 0 °C to 390 °C	1.1 °C 1.0 °C		
Type N	-50 °C to +1300 °C	1.0 °C		
Resistance thermometer (Pt100)	-50 °C to +600 °C	0.24 °C		S



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TEMPERATURE			Temperature calibrations are performed as a comparison against a reference standard	
Resistance thermometers and Electronic thermometers with sensors	-80 °C to 0 °C 0 °C to 140 °C 0.01 °C 140 °C to 200 °C 200 °C to 400 °C 400 °C to 600 °C	0.06 °C 0.10 °C 0.035 °C 0.10 °C 0.15 °C 0.18 °C	In Triple point of water cell	P
Base metal thermocouples	-80 °C to +200 °C 200 °C to 600 °C	0.40 °C 0.60 °C		P
Noble metal thermocouples Type R & Type S	0 °C to 200 °C 200 °C to 400 °C 400 °C to 600 °C	0.60 °C 0.75 °C 1.0 °C		
Metal block calibrators	-80 °C to 230 °C 230 °C to 420 °C 420 °C to 660 °C	0.05 °C 0.06 °C 0.085 °C		P
Temperature surveys				
Temperature controlled, incubators, ovens, environmental chambers, fridges/refrigerators and freezers	-80 °C to +200 °C 200 °C to 600 °C	0.75 °C 1.0 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	S
Temperature indicators and recorders, with temperature sensor(s)	-30 °C to +140 °C 140 °C to 400 °C 400 °C to 600 °C	0.16 °C 0.20 °C 0.30 °C		S



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code		
EQUIPMENT FOR IEE 16 TH /17 TH /18 TH EDITION WIRING TESTING						
<u>LOOP TESTERS</u>						
AC Resistance at 50 Hz	Nominal applied resistances		Electrical calibrations are performed as a comparison against a reference standard	P		
	0.05 Ω	3.6 m Ω				
	0.10 Ω	3.9 m Ω				
	0.22 Ω	3.6 m Ω				
	0.33 Ω	4.1 m Ω				
	0.5 Ω	4.9 m Ω				
	1 Ω	6.6 m Ω				
	5 Ω	20 m Ω				
	10 Ω	37 m Ω				
	100 Ω	370 m Ω				
	1 k Ω	3.0 Ω				
<u>CONTINUITY TESTERS</u>						
DC Resistance	1 m Ω to 100 m Ω	1.0 m Ω			P	
	100 m Ω to 2 Ω	2.0 m Ω				
	2 Ω to 100 Ω	3.8 m Ω				
	100 Ω to 1 k Ω	14 m Ω				
	1 k Ω to 10 k Ω	32 m Ω				
Continuity Current	0 mA to 400 mA	70 μ A			P	
<u>INSULATION TESTERS</u>						
DC Resistance	10 k Ω to 20 k Ω	0.12 %	P			
	20 k Ω to 2 M Ω	0.12%				
	2 M Ω to 4 M Ω	0.12 %				
	4 M Ω to 6 M Ω	0.12 %				
	6 M Ω to 9 M Ω	0.60 %				
	9 M Ω to 20 M Ω	0.85 %				
	20 M Ω to 90 M Ω	0.65 %				
	90 M Ω to 400 M Ω	1.3 %				
	400 M Ω to 800 M Ω	1.2 %				
	800 M Ω to 2 G Ω	1.30 %				
	2 G Ω to 10 G Ω	3.0 %				
DC Voltage	50 V	0.80 V	P			
	100 V	1.1 V				
	150 V	1.4 V				
	200 V	1.7 V				
	250 V	2.0 V				
	500 V	3.5 V				
	1000 V	6.5 V				
Earth Resistance	100 m Ω to 2 Ω	2.0 m Ω	P			
	2 Ω to 100 Ω	3.8 m Ω				
	100 Ω to 1 k Ω	14 m Ω				



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EQUIPMENT FOR IEE 16TH/17TH/18TH EDITION WIRING TESTING (cont'd)					
<u>RCD TESTERS</u>					
Trip time	20 ms to 390 ms 390 ms to 1 s	0.75 ms 9.3 ms	Electrical calibrations are performed as a comparison against a reference standard	P	
Trip Current at 50 Hz	10 mA 15 mA 30 mA 60 mA 100 mA 150 mA 300 mA 500 mA 1 A	110 μ A 170 μ A 280 μ A 520 μ A 770 μ A 1.2 mA 2.4 mA 4.0 mA 8.0 mA		P	
AC Voltage Source at 50 Hz	100 V 200 V 230 V 300 V 400 V	0.27 V 0.36 V 0.48 V 0.48 V 0.66 V		P	
<u>PORTABLE APPLIANCE TESTERS</u>					
Earth Bond Resistance at 50Hz	0.05 Ω 0.1 Ω 0.17 Ω 0.28 Ω 0.38 Ω 0.54 Ω 1 Ω 5 Ω 10 Ω 100 Ω 1 k Ω	3.5 m Ω 5.0 m Ω 5.5 m Ω 5.5 m Ω 6.0 m Ω 6.5 m Ω 9.0 m Ω 25 m Ω 40 m Ω 375 m Ω 4.0 Ω		P	
Earth Continuity and Bond Current at 50Hz	100 mA 200 mA 200 mA to 500 mA 500 mA to 4 A 4 A to 8 A 8 A to 12 A 12 A to 25 A	4.9 mA 5.7 mA 8.5 mA 80 mA 115 mA 150 mA 270 mA		P	
Earth Continuity Current DC	10 mA to 100 mA 100 mA to 300 mA	1.3 mA 3.0 mA			
Leakage Current at 50Hz	0 mA to 1 mA 1 mA to 10 mA 10 mA to 20 mA	3.0 μ A 8.0 μ A 50 μ A		P	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
EQUIPMENT FOR IEE 16TH/17TH/18TH EDITION WIRING TESTING (cont'd)				
Insulation Resistance DC <i>See DC Resistance Insulation Testers</i>			Electrical calibrations are performed as a comparison against a reference standard	P
Insulation Resistance Test Voltage	50 V 100 V 150 V 200 V 250 V 500 V 1000 V	0.8 V 1.1 V 1.4 V 1.7 V 2.0 V 3.5 V 6.5 V		P
Earth Continuity Resistance <i>See DC Resistance Continuity Testers</i>				
Flash Test Voltage at 50 Hz	1 kV to 1.5 kV (Class 1) 1.5 kV to 3 kV (Class 2)	45 V 80 V		P
Flash Test Current	0.67 mA to 1 mA (Class 1) 0.34 mA to 1 mA (Class 2)	40 μ A 40 μ A		P
Load at 50Hz	49 VA to 7.5 kVA	0.20 VA		P



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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				
Thread measuring cylinders	BS 5590:1978 and specials 0.1 to 6.5	0.50 on diameter		P
Plain plug gauges (parallel), and cylindrical standards	1 to 50 diameter 50 to 100 diameter 100 to 200 diameter	0.80 1.2 1.5	By comparison with end standards.	
Plain ring gauges (parallel) and setting standards	3 to 50 50 to 100 100 to 150 150 to 200	1.5 2.0 2.5 3.5	By comparison with end standards.	
Screw plug gauges (parallel) including check and setting plugs See Notes 1	1 to 100 diameter 100 to 150 diameter	3.0 on pitch 4.0 diameter	Screw thread gauges are calibrated using the methods based on NPL publication Notes on Applied Science No. 1 "Gauging and Measuring Screw Threads"	P
Screw plug gauges (taper) including check plugs See Notes 1	1 to 100 diameter 100 to 150 diameter	5.0 on pitch 8.0 diameter		
Screw ring gauges (parallel) See Notes 1 and 2	1 to 100 diameter	5.0 on pitch diameter		
Screw pitch	0.2 to 8	2.0		P
Screw flank angle	0° to 52°	5.0 minutes of arc		
Screw thread adjustable calliper gauges (parallel) See Note 3	1 to 100 diameter	See Note 3	By comparison with setting plugs.	P
Length gauges, flat and spherical ended	25 to 575	1.0 + (8.0 x length in m)	By comparison with end standards.	P



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
MEASURING INSTRUMENTS AND MACHINES cont.				
Micrometers External	BS 870:2008 0 to 125	Heads: 2.0		P
Depth	BS 6468:2008 0 to 300	Setting and extension rods 2.0 + (7.0 x length in m) Flatness of measuring faces: 0.5 Parallellism of measuring faces: 1.0		
Bore micrometers (three point)	3 to 50 diameter 50 to 100 diameter 100 to 150 diameter 150 to 200 diameter	4.0 5.0 5.5 6.0	By comparison with setting rings	P
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) Flatness of measuring faces: 5.0 Parallellism of measuring faces: 5.0 Squareness of measuring faces: 5.0		P
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50	1.0		P
Notes for dimensional calibrations				
1. Single start, symmetrical thread forms only. 2. Includes use of check plugs for screw rings from 1 mm to 8mm diameter 3. Functional test of size using setting plugs calibrated				
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: $Q[a, b] = [a^2 + b^2]^{1/2}$