Schedule of Accreditation

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United Kingdom Accreditation Service

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UKAS CALIBRATION **0361** **Accredited to ISO/IEC 17025:2017**	**Micro Precision (Yorkshire) Ltd** **Issue No:** 047 **Issue date:** 21 November 2025
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Calibration performed at the above address only	

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION All electrical measurements are carried out using the method of direct comparison or transfer to laboratory reference standards unless otherwise determined in the remarks column. The measurement and generation headings in the first column declare the laboratory's ability to either measure outputs of submitted test items or to generate values as a stimulus for test items which measure.			
DC Voltage			
Measurement	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1100 V 1 kV to 4 kV 4 kV to 6 kV 6 kV to 8 kV 8 kV to 10 kV 10 kV to 15 kV 15 kV to 20 kV 20 kV to 25 kV 25 kV to 30 kV 30 kV to 35 kV 35 kV to 40 kV	9.0 µV/V + 0.60 µV 5.0 µV/V 4.0 µV/V 7.0 µV/V 7.0 µV/V 0.49 % + 6.0 V 0.49 % + 6.1 V 0.61 % + 6.3 V 0.60 % + 6.6 V 0.72 % + 35 V 0.72 % + 35 V 0.72 % + 57 V 0.72 % + 68 V 0.72 % + 78 V 0.72 % + 97 V	These values can be generated for the calibration of measuring instruments, Outputs of instruments can be measured directly
Generation	0 mV to 330 mV 330 mV to 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 1020 V	13 µV/V + 1.6 µV 8.0 µV/V 9.0 µV/V 11 µV/V 12 µV/V	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
AC Voltage Measurement			
	1 mV to 12 mV		
	20 Hz to 40 Hz	160 µV/V + 0.8 µV	
	40 Hz to 1 kHz	100 µV/V + 0.8 µV	
	1 kHz to 20 kHz	100 µV/V + 0.8 µV	
	20 kHz to 50 kHz	160 µV/V + 0.8 µV	
	50 kHz to 100 kHz	250 µV/V + 0.8 µV	
	100 kHz to 300 kHz	0.63 % + 0.8 µV	
	12 mV to 120 mV		
	20 Hz to 40 Hz	110 µV/V	
	40 Hz to 1 kHz	100 µV/V	
	1 kHz to 20 kHz	100 µV/V	
	20 kHz to 50 kHz	170 µV/V	
	50 kHz to 100 kHz	250 µV/V	
	100 kHz to 300 kHz	0.62 %	
	300 kHz to 1 MHz	0.63 %	
	1 MHz to 2 MHz	0.63 %	
	120 mV to 1.2 V		
	20 Hz to 40 Hz	100 µV/V	
	40 Hz to 1 kHz	100 µV/V	
	1 kHz to 20 kHz	100 µV/V	
	20 kHz to 50 kHz	160 µV/V	
	50 kHz to 100 kHz	250 µV/V	
	100 kHz to 300 kHz	280 µV/V	
	300 kHz to 1 MHz	0.62 %	
	1 MHz to 2 MHz	0.62 %	
	1.2 V to 12 V		
	20 Hz to 40 Hz	110 µV/V	
	40 Hz to 1 kHz	100 µV/V	
	1 kHz to 20 kHz	100 µV/V	
	20 kHz to 50 kHz	100 µV/V	
	50 kHz to 100 kHz	390 µV/V	
	100 kHz to 300 kHz	410 µV/V	
	300 kHz to 2 MHz	0.62 %	
	12 V to 120 V		
	20 Hz to 40 Hz	130 µV/V	
	40 Hz to 1 kHz	110 µV/V	
	1 kHz to 20 kHz	120 µV/V	
	20 kHz to 50 kHz	250 µV/V	
	50 kHz to 100 kHz	680 µV/V	
	100 kHz to 300 kHz	690 µV/V	
	300 kHz to 1 MHz	720 µV/V	
	120 V to 200 V		
	20 Hz to 100 Hz	190 µV/V	
	100 Hz to 2 kHz	180 µV/V	
	2 kHz to 10 kHz	160 µV/V	
	10 kHz to 30 kHz	170 µV/V	
	30 kHz to 100 kHz	420 µV/V	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
AC Voltage			
Measurement (cont'd)			
	200 V to 1100 V		
	20 Hz to 100 Hz	150 µV/V	
	100 Hz to 2 kHz	140 µV/V	
	2 kHz to 10 kHz	350 µV/V	
	10 kHz to 30 kHz	790 µV/V	
	1 kV to 2 kV *50 Hz*	0.84 % + 8.4 V	
	2 kV to 4 kV *50 Hz*	0.84 % + 13 V	
	4 kV to 6 kV *50 Hz*	0.94 % + 18 V	
	6 kV to 7 kV *50 Hz*	0.97 % + 19 V	
	7 kV to 10 kV *50 Hz to 60 Hz*	0.80 % + 40 V	
	10 kV to 15 kV *50 Hz to 60 Hz*	0.80 % + 59 V	
	15 kV to 20 kV *50 Hz to 60 Hz*	0.80 % + 87 V	
	20 kV to 25 kV *50 Hz to 60 Hz*	0.80 % + 110 V	
AC Voltage			
Generation			
	10 Hz to 45 Hz		
	1 mV to 33 mV	0.060 % + 2.6 µV	
	33 mV to 33 V	0.030 %	
	45 Hz to 10 kHz		
	1 mV to 33 mV	0.050 % + 2.6 µV	
	33 mV to 330 V	0.010 %	
	10 kHz to 20 kHz		
	1 mV to 33 mV	0.050 % + 2.6 µV	
	33 mV to 330 mV	0.020 %	
	330 mV to 3.3 V	0.010 %	
	3.3 V to 33 V	0.010 %	
	33 V to 330 V	0.010 %	
	20 kHz to 50 kHz		
	1 mV to 33 mV	0.050 % + 2.6 µV	
	33 mV to 330 mV	0.020 %	
	330 mV to 3.3 V	0.010 %	
	3.3 V to 33 V	0.010 %	
	33 V to 330 V	0.030 %	
	50 kHz to 100 kHz		
	1 mV to 33 mV	0.060 % + 2.6 µV	
	33 mV to 330 mV	0.020 %	
	330 mV to 3.3 V	0.040 %	
	3.3 V to 33 V	0.010 %	
	33 V to 330 V	0.090 %	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
AC Voltage			
Generation (cont'd)			
	100 kHz to 500 kHz		
	1 mV to 33 mV	0.13 % + 2.6 μV	
	33 mV to 330 mV	0.20 %	
	330 mV to 3.3 V	0.20 %	
	330 V to 1020 V		
	45 Hz to 1 kHz	0.010 %	
	1 kHz to 5 kHz	0.010 %	
	5 kHz to 10 kHz	0.030 %	
DC Current			
Measurement	0 μA to 1.2 μA	110 μA/A + 0.50 nA	
	1.2 μA to 12 μA	23 μA/A + 0.50 nA	
	12 μA to 120 μA	18 μA/A	
	0.12 mA to 120 mA	16 μA/A	
	120 mA to 200 mA	17 μA/A	
	0.2 A to 2 A	65 μA/A	
	2 A to 11 A	140 μA/A	
DC Current			
Generation			
	0 μA to 330 μA	110 μA/A + 3.8 nA	
	0.33 mA to 3.3 mA	35 μA/A	
	3.3 mA to 33 mA	33 μA/A	
	33 mA to 330 mA	42 μA/A	
	0.33 A to 1.1 A	190 μA/A	
	1.1 A to 3 A	190 μA/A	
	3 A to 11 A	350 μA/A	
	11 A to 20.5 A	440 μA/A	
	20.5 A to 150 A	0.61 %	For the calibration of clamp meters only
	150 A to 1025 A	0.60 %	For the calibration of clamp meters only
AC Current			
Measurement			
	10 Hz to 1 kHz		
	2 μA to 200 μA	240 μA/A + 17 nA	
	0.2 mA to 2 mA	240 μA/A	
	2 mA to 20 mA	260 μA/A	
	20 mA to 200 mA	260 μA/A	
	0.2 A to 2 A	650 μA/A	
	1 kHz to 20 kHz		
	0.12 mA to 12 mA	510 μA/A	
	12 mA to 120 mA	630 μA/A	
	120 mA to 1.05 A	0.28 %	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
AC Current			
Measurement (cont'd)			
	1 kHz to 5 kHz		
	1.05 A to 2 A	0.16 %	
	20 Hz to 2 kHz		
	2 A to 11 A	660 μA/A	
	2 kHz to 5 kHz		
	2 A to 11 A	0.12 %	
AC Current			
Generation			
	10 Hz to 20 Hz		
	30 μA to 330 μA	0.15 % + 60 nA	
	330 μA to 3.3 mA	0.10 %	
	3.3 mA to 33 mA	0.14 %	
	33 mA to 330 mA	0.13 %	
	20 Hz to 45 Hz		
	30 μA to 330 μA	0.15 % + 60 nA	
	330 μA to 3.3 mA	0.10 %	
	3.3 mA to 330 mA	0.060 %	
	10 Hz to 45 Hz		
	330 mA to 1.1 A	0.050 %	
	1.1 A to 3 A	0.04 %	
	45 Hz to 1 kHz		
	30 μA to 330 μA	0.14 % + 60 nA	
	330 μA to 3.3 mA	0.10 %	
	3.3 mA to 330 mA	0.060 %	
	330 mA to 1.1 A	0.050 %	
	1.1 A to 3 A	0.040 %	
	1 kHz to 5 kHz		
	30 μA to 330 μA	0.24 % + 60 nA	
	330 μA to 3.3 mA	0.12 %	
	3.3 mA to 33 mA	0.090 %	
	33 mA to 330 mA	0.070 %	
	330 mA to 1.1 A	0.090 %	
	1.1 A to 3 A	0.040 %	
	3 A to 11 A	0.23 %	
	11 A to 20.5 A	0.25 %	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
AC Current			
Generation (cont'd)			
	5 kHz to 10 kHz		
	30 μA to 330 μA	0.28 % + 60 nA	
	330 μA to 3.3 mA	0.13 %	
	3.3 mA to 33 mA	0.14 %	
	33 mA to 330 mA	0.10 %	
	45 Hz to 100 Hz		
	3 A to 11 A	0.060 %	
	11 A to 20.5 A	0.080 %	
	100 Hz to 1 kHz		
	3 A to 11 A	0.070 %	
	11 A to 20.5 A	0.090 %	
	10 A to 1025 A		
	45 Hz to 65 Hz	0.40 %	For the calibration of clamp meters only
	65 Hz to 100 Hz	0.90 %	
DC Resistance			
Measurement			
	0 Ω to 20 Ω	22 μΩ/Ω + 1.0 μΩ	
	20 Ω to 200 Ω	12 μΩ/Ω	
	200 Ω to 12 kΩ	8.0 μΩ/Ω	
	12 kΩ to 120 kΩ	11 μΩ/Ω	
	0.12 MΩ to 1.2 MΩ	18 μΩ/Ω	
	1.2 MΩ to 12 MΩ	42 μΩ/Ω	
	12 MΩ to 200 MΩ	630 μΩ/Ω	
	200 MΩ to 2 GΩ	900 μΩ/Ω	
Generation (sourcing spot values)			
	0.0001 Ω	660 μΩ/Ω	
	0.001 Ω	290 μΩ/Ω	
	0.01 Ω	180 μΩ/Ω	
	0.1 Ω	80 μΩ/Ω	
	1 Ω	28 μΩ/Ω	
	1.9 Ω	28 μΩ/Ω	
	10 Ω	11 μΩ/Ω	
	19 Ω	12 μΩ/Ω	
	100 Ω	9.0 μΩ/Ω	
	190 Ω	9.0 μΩ/Ω	
	1 kΩ	6.0 μΩ/Ω	
	1.9 kΩ	7.5 μΩ/Ω	
	10 kΩ	8.5 μΩ/Ω	
	19 kΩ	9.5 μΩ/Ω	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
DC Resistance			
Generation (sourcing spot values cont'd)			
	100 kΩ	9.0 μΩ/Ω	
	190 kΩ	9.5 μΩ/Ω	
	1 MΩ	9.5 μΩ/Ω	
	1.9 MΩ	15 μΩ/Ω	
	10 MΩ	29 μΩ/Ω	
	19 MΩ	53 μΩ/Ω	
	100 MΩ	200 μΩ/Ω	
Range Values	0 Ω to 11 Ω	71 μΩ/Ω + 60 μΩ	
	11 Ω to 33 Ω	79 μΩ/Ω	
	33 Ω to 110 Ω	34 μΩ/Ω	
	110 Ω to 330 Ω	20 μΩ/Ω	
	330 Ω to 1.1 kΩ	12 μΩ/Ω	
	1.1 kΩ to 3.3 kΩ	14 μΩ/Ω	
	3.3 kΩ to 11 kΩ	12 μΩ/Ω	
	11 kΩ to 33 kΩ	12 μΩ/Ω	
	33 kΩ to 110 kΩ	12 μΩ/Ω	
	110 kΩ to 330 kΩ	23 μΩ/Ω	
	330 kΩ to 1.1 MΩ	18 μΩ/Ω	
	1.1 MΩ to 3.3 MΩ	59 μΩ/Ω	
	3.3 MΩ to 11 MΩ	64 μΩ/Ω	
	11 MΩ to 33 MΩ	230 μΩ/Ω	
	33 MΩ to 110 MΩ	300 μΩ/Ω	
	110 MΩ to 330 MΩ	0.14 %	
	330 MΩ to 1.1 GΩ	0.55 %	
DC Power	Voltage: 1 V to 1000 V Current: 10 mA to 20 A 10 mW to 20 kW	0.050 %	
	Voltage: 1 V to 1000 V Current: 1 A to 1000 A 1 W to 1000 kW	0.70 %	For the calibration of power clamp meters
AC Power	*50 Hz to 1 kHz* Voltage: 1 V to 1000 V Current: 10 mA to 20 A 10 mW to 20 kW	0.21 %	Active and reactive in phase (unity)
	50 Hz to 1 kHz Voltage: 1 V to 1000 V Current: 10 mA to 20 A 10 mW to 20 kW	0.60 %	Reactive power factor -1 to 1
	50 Hz to 1 kHz Voltage: 1 V to 1000 V Current: 1 A to 1000 A 1 W to 1000 kW	0.71 %	For the calibration of power clamp meters

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
Phase Angle	*50 Hz to 1 kHz* 0 ° to 360 °	 0.18 °	
Frequency	10 MHz 1 Hz to 3 GHz	4.0 in 10^{12} 5.0 in 10^{12}	Source suitable for counters of sufficient resolution.
	0.1 Hz to 100 MHz 100 MHz to 3 GHz	5.0 in 10^{12} + 10 mHz 5.0 in 10^{12}	Measurement capability of stable sources.
Rotational Speed	30 RPM to 100 RPM 100 RPM to 1000 RPM 1000 RPM to 10 kRPM	0.070 RPM 0.70 RPM 1.0 RPM	Optical tachometers
Capacitance Generation	*1 kHz* 190 pF to 400 pF 0.4 nF to 1.1 nF 1.1 nF to 3.3 nF 3.3 nF to 11 µF 11 µF to 33 µF 33 µF to 110 mF	 1.0 % 0.30 % 0.22 % 0.20 % 0.24 % 0.28 %	Values available for calibration of measuring devices.
Measurement	*100 Hz to 1kHz* 1 pF to 10 µF	 0.12 %	Measurement of capacitors.
Temperature Indicators and simulators, calibration by electrical simulation			
Cold junction	21 °C to 25 °C	0.20 °C	For reporting CJ value in ambient conditions for electrical simulation of temperature.
Noble metal thermocouples	0 °C to 1820 °C	0.30 °C	Excluding cold junction compensation
	0 °C to 1820 °C	0.35 °C	Including cold junction compensation
Base metal thermocouples	- 200 °C to - 100 °C - 100 °C to + 1372 °C	0.25 °C 0.20 °C	Excluding cold junction compensation
	- 200 °C to - 100 °C - 100 °C to 120 °C - 120 °C to + 1372 °C	0.25 °C 0.30 °C 0.27 °C	Including cold junction compensation
Resistance sensors (Pt 100)	- 200 °C to + 800 °C	0.020 °C	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
17th Edition capability			
Insulation Resistance	10 kΩ to 5 MΩ 5 MΩ to 90 MΩ 90 MΩ to 1 GΩ 1 GΩ to 10 GΩ	0.070 % 0.36 % 1.2 % 1.4 %	
Insulation Resistance: Voltage measurement	50 V to 1 kV @ 0.5 mA or 1 mA	0.090 %	
Continuity resistance	20 mΩ to 1 Ω 1 Ω to 20 Ω 100 Ω 1 kΩ	1.9 % 1.5 % 0.2 % 0.2 %	
Continuity resistance current	0 mA to 320 mA @ 1 Ω	0.62 %	
Loop impedance	*50 Hz* 0.2 mΩ to 0.4 Ω 0.4 Ω to 0.8 Ω 0.8 Ω to 3 Ω 3 Ω to 8 Ω 8 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 1 kΩ	 30 mΩ 31 mΩ 32 mΩ 33 mΩ 42 mΩ 210 mΩ 1.2 Ω	
RCD Trip Current	*50 Hz* 1 mA to 60 mA 60 mA to 3 A	 0.64 % 0.36 %	
RCD Trip time	20 ms to 400 ms 400 ms to 5 s	0.80 ms 8.3 ms	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
PAT Testers			
Earth Bond resistance	0.2 Ω to 2 Ω 2 Ω to 8 Ω 8 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 1 kΩ	10 mΩ 16 mΩ 29 mΩ 150 mΩ 1.6 Ω	
Earth bond current	0 mA to 300 mA 300 mA to 8 A 8A to 30 A	3.0 % 0.60 % 0.50 %	
Insulation resistance	10 kΩ to 5 MΩ 5 MΩ to 90 MΩ 90 MΩ to 300 MΩ 300 MΩ to 1 GΩ 1 GΩ to 2 GΩ	0.070% 0.36 % 1.2 % 1.2 % 1.4 %	
Leakage current	50 Hz 1 µA to 10 mA	 1.6 %	
Load	50 Hz 0.13 kW	 2.5 %	
Flash voltage	1 kV to 1.8 kV 2 kV to 3.6 kV	2.5 % 2.5 %	
Flash current	0.3 mA to 3 mA	4.0 %	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
DIMENSIONAL CALIBRATION			
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED			
Length			All linear calibrations may also be made in inch units.
Feeler gauges	BS 957:2008 0.02 to 1.00	2.0	
Gap Gauges (Plain parallel)	BS 969:2008 0.5 to 100 100 to 200 200 to 300	 2.0 2.0 4.0	
Length Gauges, Flat and Spherical-ended (excluding length bars)	0 to 3000 Diameter:	1.0 + (8.0 x length in m)	By comparison with reference standards
Plain Plug Gauges (parallel) cylindrical setting standards and rollers	1 to 50 50 to 100 100 to 200 200 to 300	0.80 1.0 1.5 2.5	By comparison with reference standards
Plain ring gauges (parallel)	5 to 15 15 to 50 50 to 100 100 to 150 150 to 200 200 to 500	2.0 1.8 2.0 2.5 3.0 8.0	By comparison with reference standards
Measuring Instruments and Equipment			
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50	1.0	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
DIMENSIONAL CALIBRATION			
	RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED		
Micrometers			
External	BS 870:2008 (and above) 0 to 1500	Heads: 2.0 between any two points Setting and extension rods: 1.0 + (8.0 x length in m)	
	Zero Reading	1.0	
	Flatness	0.30	
	Parallelism Flats	0.30	
Internal (including stick micrometers)	BS 959:2008 0 to 1000	Heads: 2.0 between any two points Setting and extension rods: 1.0 + (8.0 x length in m)	
	Parallelism of Abutment Faces	0.50	
Depth	BS 6468:2008 0 to 300	Heads: 2.0 between any two points Setting and extension rods: 1.0 + (8.0 x length in m)	
	Flatness Base	0.003	
	Mean Axial Error (Run Out) Type R	0.009	
	Lateral Shake of Spindle Type S	0.009	
	Squareness of Measuring Face to Rod Type R	0.003	
	Parallelism of Measuring Face to Datum Type S	0.003	
	Mean Axial Error (Run Out) Type R Using Projector	0.010	
	Flatness of Rods	0.0002	
Vernier caliper gauges	BS 887:2008 0 to 1000	Overall performance 10 + (30 x length in m)	
	Flatness	3.0	
	Parallelism	4.0	
	Squareness 30mm Jaws	7.0	
Vernier depth gauges	BS 6365:2008 0 to 600	Overall performance 10 + (30 x length in m)	
	Flatness	4.0	
	Parallelism	4.0	
Vernier height gauges	BS 1643:2008 (withdrawn) ISO13225:2012 0 to 1000	Overall performance 10 + (30 x length in m)	
	Flatness	4.0	
	Parallelism of measuring jaw to datum	4.0	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
AIR VELOCITY			Method by comparison using an open jet wind tunnel
Calibration of anemometers and pitot tubes with a digital display	0.3 m/s to 0.8 m/s 0.8 m/s to 1.5 m/s 1.5 m/s to 3 m/s 3 m/s to 5 m/s 5 m/s to 6 m/s 6 m/s to 7 m/s 7 m/s to 9 m/s 9 m/s to 11 m/s 11 m/s to 21 m/s 21 m/s to 26 m/s 26 m/s to 30 m/s	0.14 m/s 0.17 m/s 0.22 m/s 0.32 m/s 0.50 m/s 0.50 m/s 0.65 m/s 0.69 m/s 0.83 m/s 1.3 m/s 1.4 m/s	Calibration of devices up to 100 mm diameter may be undertaken
PRESSURE			Methods consistent with EURAMET CG17
<u>Hydraulic pressure (gauge)</u>			
Calibration of pressure indicating instruments and gauges	140 kPa to 410 kPa 410 kPa to 4.1 MPa 4.1 MPa to 289 MPa	Q [0.015 %, 55 Pa] 0.011 % 0.010 %	Calibration of pressure measuring devices with an electrical output may be undertaken.
<u>Hydraulic pressure (absolute)</u>			
Calibration of pressure indicating instruments and gauges	240 kPa to 510 kPa 510 kPa to 4.2 MPa 4.2 MPa to 289 MPa	Q [0.015 %, 56 Pa] Q [0.011 %, 12 Pa] Q [0.010 %, 12 Pa]	
<u>Gas pressure (gauge)</u>			
Calibration of pressure indicating instruments and gauges	-90 kPa to -1.5 kPa 0 to 40 Pa 40 Pa to 200Pa 200 Pa to 240 Pa 240 Pa to 400 Pa 400 Pa to 800 Pa 800 Pa to 1.2 kPa 1.2 kPa to 1.5 kPa 1.5 kPa to 200 kPa 200 kPa to 6 MPa 6 MPa to 7.1 MPa	Q [0.0095 %, 0.17 Pa] 2.6 Pa 2.7 Pa 2.8 Pa 3.1 Pa 4.3 Pa 5.8 Pa 7.3 Pa Q [0.0075 %, 0.17 Pa] Q [0.034 %, 7.0 Pa] 0.044 %	
<u>Gas pressure (absolute)</u>			
Calibration of pressure indicating instruments and gauges	10 kPa to 80 kPa 80 kPa to 115 kPa 115 kPa to 300 kPa 300 kPa to 6.1 MPa 6.1 MPa to 7.2 MPa	Q [0.0095 %, 10 Pa] 10 Pa Q [0.0095 %, 10 Pa] Q [0.034 %, 12 Pa] Q [0.044 %, 10 Pa]	

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