Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

UKAS CALIBRATION **0143** **Accredited to ISO/IEC 17025:2017**	**DM Calibration Limited** **Issue No:** 052 **Issue date:** 19 August 2026	
	3 Iceni Court **Icknield Way** **Letchworth Garden City** **Hertfordshire** **SG6 1TN** **United Kingdom**	**Contact: Neil Debrick** **Tel: +44 (0)1462 650620** **email: Neil.Debrick@dplusm.co.uk** **Website: www.dmsystemsgroup.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 3 Iceni Court Icknield Way Letchworth Garden City Hertfordshire SG6 1TN United Kingdom	**Contact:** Neil Debrick Tel: +44 (0)1462 650 620 Email: neil.debrick@dmcalibration.co.uk	Dimensional Electrical Pressure Torque	A

Site activities performed away from the locations listed above:

Location details		Activity	Location code
At customers premises. 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.	**Contact:** Neil Debrick Tel: +44 (0)1462 650 620 Email: neil.debrick@dmcalibration.co.uk	Dimensional Electrical	B

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k=2)	Remarks	Location Code
Range in millimetres and uncertainty in micrometres unless otherwise stated.				
DIMENSIONAL CALIBRATION LENGTH			All linear calibration results may also be stated in inch units.	
Plain plug gauges (parallel) cylindrical setting standards and rollers	1 to 50 diameter 50 to 100 100 to 200 200 to 300	1.0 2.0 3.0 4.0	Using length measuring machine and end standards.	A
Plain and setting ring gauges (parallel)	1 to 10 diameter 10 to 50 50 to 100 100 to 200 200 to 300	1.5 1.0 1.2 3.5 4.0	Using length measuring machine and end standards.	A
Screw plug gauges (parallel) including check and setting plugs	1 to 100 diameter 100 to 200 200 to 300	4.0 5.0 6.0	Single and multi-start, symmetrical thread forms only, using length measuring machine.	A
Screw ring gauges (parallel)	1 to 50 50 to 150 150 to 300	5.0 6.0 8.0	Single and multi-start, symmetrical thread forms only, using length measuring machine. The 1 mm to 12 mm diameter range relates to functional test of size using check plugs.	A
Screw thread pitch	0.2 to 8	1.5	Using length measuring machine	A
Screw thread flank angles	0° to 52°	5.0 minutes of arc	Using a projector	A
Length gauges, flat and spherical ended	25 to 600	1.0 + (8.0 x length in m)	Using end standards	A
Plain gap gauges (parallel)	0.5 to 100 100 to 200	3.0 5.0	Using gauge blocks	A
Parallels	5 to 50 x 100 x 400	From 1.5 up to 5.0	As BS 906:1972 by comparison to datum surfaces and length standards	A
Vee blocks	20 to 150 diameter, vee capacity Flatness of faces: Parallelism of faces: Parallelism of vee: Squareness: Centrality of vee: Equality of semi-angle: Matching:	 2.5 2.5 4.0 4.0 4.0 0.60 minutes of arc 4.0	As BS 3731:1987 comparison to datum surfaces	A

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Range in millimetres and uncertainty in micrometres unless otherwise stated.				
ANGLE				
Squares Blade type	Squareness of blade to stock 50 to 300 300 to 600 Straightness of blade: Flatness: Parallelism: Squareness of side faces: Squareness of blade edges: Lateral squareness:	 6.0 7.0 2.5 2.5 2.5 7.0 6.0 20	As BS 939:2007	A
Angle plates and box angle plates	50 to 600	Squareness: 4.8 + (1.0 per 100 mm) Parallelism: 2.0 + (1.0 per 100 mm) Flatness 2.0 +(1.0 per 100 mm)	As BS 5535:1978	A
FORM				
Straight edges Cast iron	300 to 8000	1.0 + (2.0 x length in m)	As BS 5204:Part 1:1975	A
Steel, Granite	300 to 2000	1.0 + (2.0 x length in m)	As BS 5204:Part 2:1977	A
Surface plates Granite and Cast iron	160 x 100 to 4000 x 6000 Flatness of working surface: Local variation of working surface:	 1.5 + (0.80 x diagonal in m) 2.0	As BS 817:2008	A & B

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Range in millimetres and uncertainty in micrometres unless otherwise stated.				
MEASURING INSTRUMENTS AND MACHINES			Instrument entries in this section of the schedule also cover digital and dial type gauges which are calibrated based on the quoted standards.	
External micrometer	Based on BS 870:2008 0 to 900 Heads: (Zero) Setting, 0 to 25: (Zero) Setting, 25 to 600: Flatness of anvils: Parallelism of anvils: Spindle alignment:	 2.0 between any two points 1.0 1.0 + (8.0 x length in m) 0.30 1.0 6.0		A
Internal micrometer	Based on BS 959:2008 0 to 900 Heads: Setting and Extension rods:	 2.0 1.2 + (8.0 x length in m)		A

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Range in millimetres and uncertainty in micrometres unless otherwise stated.				
Depth micrometer	Based on BS 6468:2008 0 to 300 Heads: Setting and Extension rods: Base Flatness: Rod Flatness: Parallelism: Rod axis of rotation: Squareness of:- Face to spindle / rod axis: Rod axis to datum face:	 2.0 1.0 + (8.0 x length in m) 3.0 0.30 3.0 5.0 3.0 5.0		A
Three point bore micrometers	3 to 50 50 to 100 100 to 150	3.5 + (8.0 x length in m) 5.0 + (8.0 x length in m) 7.0 + (8.0 x length in m)	Using setting rings	A
Bore indicators	2 to 100 100 to 150	Overall performance 5.0 Overall performance 8.0	Using setting rings or length measuring machine	A
Micrometer heads	0 to 100	1.0	As BS 1734:1951	A
Vernier / Digital / Dial gauges Calliper	0 to 1000 Flatness: Parallelism: Squareness: Co-Planer: Width of internal jaws:	Overall performance 10 + (30 x length in m) 4.0 4.0 8.0 7.0 6.0	BS 887:2008	A
Caliper	0 to 1000 Partial Surface Contact Error (E) 0 to 1000: Shift Error (S) Internal Jaws 3 to 50: Shift Error (S) Depth & Step 3 to 50: Line Contact: 10 to 20:	 1.0 + (15 x length in m) 3.5 2.0 2.0	BS EN ISO 13385-1:2019 The stated uncertainty has been calculated in accordance with ISO 14253-5 and relates to the test value uncertainty. The uncertainty quoted excludes contributions relating to the instrument under test.	Caliper

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Range in millimetres and uncertainty in micrometres unless otherwise stated	0 to 1000 Flatness: Parallelism: Depth of Jaw/Scriber:	Overall performance 10 + (30 x length in m) 1.0 3.0 4.0	BS 1643:2008 and ISO13225:2012	A
Depth	0 to 600 Flatness/Straightness: Parallelism:	Overall performance 10 + (30 x length in m) 3.0 3.0	BS 6365:2008	A
Dial gauges and dial test indicators	0 to 50 Scale measurements: Discrimination: Repeatability:	 1.0 1.8 1.4	As BS 907:2008 and BS 2795:1981	A

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Range in millimetres and uncertainty in micrometres unless otherwise stated.				
Electronic height gauges (including setting masters)	0 to 1000	1.4 + (6.8 x length in m)	Using end standards.	A
Feeler gauges	0.02 to 1	2.0	As BS 957:2008	A
Spirit levels	5 seconds of arc to 60 minutes of arc nominal sensitivity	Mean sensitivity 10 % of nominal Minimum of 0.50 seconds of arc	As BS 3509:1962 and BS 958:1968	A
Electronic indicating levels	0 to 10 minutes of arc	1.0 % of range Minimum 0.50 seconds of arc	Using small angle generator.	A
TORQUE CALIBRATION			Calibration results may also be given in units of lbf·in and lbf·ft. The uncertainties quoted are for both the application of the calibration torque and the characteristics of the device being calibrated.	
Torque Wrenches and Torque Drivers	0.1 N·m to 3000 N·m	1.0 %	As BS EN ISO 6789-2:2017	A
Torque Wrenches and Torque Drivers	0.1 N·m to 3000 N·m	1.0 %	As BS EN ISO 6789:2003 (Withdrawn & superseded)	A

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL CALIBRATION				
DC RESISTANCE				
Specific values	100 μΩ 1 mΩ 10 mΩ	60 μΩ/Ω 35 μΩ/Ω 15 μΩ/Ω	Known values of resistance for the calibration of measuring instruments.	A
	100 mΩ 1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ	12 μΩ/Ω 6.0 μΩ/Ω 5.0 μΩ/Ω 4.0 μΩ/Ω 4.0 μΩ/Ω 3.0 μΩ/Ω 3.0 μΩ/Ω 6.0 μΩ/Ω 10 μΩ/Ω 100 μΩ/Ω 0.65 %		
Other values	0 Ω to 1 Ω 1 Ω to 12 Ω 12 Ω to 120 Ω 120 Ω to 1.2 kΩ 1.2 kΩ to 12 kΩ 12 kΩ to 120 kΩ 120 kΩ to 1.2 MΩ 1.2 MΩ to 12 MΩ 12 MΩ to 120 MΩ	12 μΩ/Ω + 34 μΩ 6.4 μΩ/Ω + 35 μΩ 3.9 μΩ/Ω + 350 μΩ 2.9 μΩ/Ω + 240 μΩ 4.0 μΩ/Ω + 2.4 mΩ 3.0 μΩ/Ω + 24 mΩ 14 μΩ/Ω + 1.2 Ω 45 μΩ/Ω + 67 Ω 610 μΩ/Ω + 1.2 kΩ	Using digital multimeter; for the calibration of resistance sources.	A
	0 Ω to 12 Ω 12 Ω to 120 Ω 120 Ω to 1.2 kΩ 1.2 kΩ to 12 kΩ 12 kΩ to 120 kΩ 120 kΩ to 1.2 MΩ 1.2 MΩ to 12 MΩ 12 MΩ to 120 MΩ	130 μΩ/Ω + 3.5 mΩ 120 μΩ/Ω + 4.6 mΩ 120 μΩ/Ω + 12 mΩ 120 μΩ/Ω + 120 mΩ 120 μΩ/Ω + 1.2 Ω 120 μΩ/Ω + 12 Ω 480 μΩ/Ω + 120 Ω 1.1 % + 12 kΩ	Using digital multimeter; for the calibration of resistance sources.	B
Specific values	1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ	95 μΩ/Ω 24 μΩ/Ω 11 μΩ/Ω 7.9 μΩ/Ω 7.2 μΩ/Ω 9.7 μΩ/Ω 14 μΩ/Ω 41 μΩ/Ω 110 μΩ/Ω	Known values of resistance for the calibration of measuring instruments	B

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
DC VOLTAGE				
Reference standard values	10 V	0.20 μV/V	Using digital multimeter.	A
Other Values	0 V to 120 mV 120 mV to 1.2 V 1.2 V to 12 V 12 V to 120 V 120 V to 1 kV 1 kV to 12 kV	6.9 μV/V + 0.32 μV 1.6 μV/V + 0.24 μV 0.70 μV/V 2.0 μV/V 7.1 μV/V + 0.41 mV 0.20 %	Using digital multimeter; for the calibration of voltage sources. Using high voltage source and divider.	A
	0 mV to 120 mV 120 mV to 1.2 V 1.2 V to 12 V 12 V to 120 V 120 V to 1050 V 1 kV to 12 kV	45 μV/V + 4.5 μV 32 μV/V 30 μV/V 47 μV/V 480 μV/V 0.20 %	Using digital multimeter; for the calibration of voltage sources. Using high voltage divider.	B
	0 V to 220 mV 220 mV to 2.2 V 2.2 V to 11 V 11 V to 22 V 22 V to 220 V 220 V to 1100 V	7.9 μV/V + 0.80 μV 5.1 μV/V + 1.0 μV 3.7 μV/V + 2.6 μV 3.6 μV/V + 4.1 μV 5.1 μV/V + 40 μV 6.6 μV/V + 400 μV	Using multifunction calibrator; for the calibration of measuring instruments.	A
DC CURRENT				
	1 μA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 3 A 3 A to 10 A 10 A to 20 A 20 A t0 40 A 40 A to 100 A	15 μA/A 20 μA/A 25 μA/A 25 μA/A 45 μA/A 50 μA/A 85 μA/A 380 μA/A	Known values of direct current, using voltage/resistance method.	A
Simulation	20 A to 1000 A	0.20 % + 100 mA	For the calibration of current clamps and similar devices, using multi-turn coil method.	A & B A
	0 A to 120 μA 120 μA to 1.2 mA 1.2 mA to 12 mA 12 mA to 120 mA 120 mA to 400 mA 400 mA to 1.2 A 1.2 A to 3 A 3 A to 10 A 10 A to 20 A	600 μA/A + 31 nA 600 μA/A + 60 nA 600 μA/A + 2.4 μA 600 μA/A + 12 μA 600 μA/A + 26 μA 600 μA/A + 240 μA 0.12 % + 700 μA 0.18 % + 930 μA 75 μA/A + 75 μA	Using digital multimeter; for the calibration of current sources.	B

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
DC CURRENT (continued)				
	0 A to 220 µA	41 µA/A + 6.0 nA	Using multifunction calibrator; for the calibration of measuring Instruments.	A & B
	220 µA to 2.2 mA	36 µA/A + 7.0 nA		
	2.2 mA to 22 mA	36 µA/A + 40 nA		
	22 mA to 220 mA	46 µA/A + 700 nA		
	220 mA to 2.2 A	81 µA/A + 12 µA		
	2.2 A to 10 A	480 µA/A + 260 µA		
DC Power				
	33 mV to 1 kV			
	3.3 mA to 9 mA	0.034 %	Using a Multifunction Calibrator for the Calibration of measuring Instruments. PF = 1, Power factor of unity to 0.5 at increased uncertainty	
	9 mA to 33 mA	0.027 %		
	33 mA to 90 mA	0.034 %		
	90 mA to 330 mA	0.027 %		
	330 mA to 0.90 A	0.064 %		
	0.9 A to 2.2 A	0.049 %		
	2.2 A to 4.5 A	0.094 %		
	4.5 A to 11 A	0.071 %		
AC VOLTAGE				
	1.2 mV to 12 mV			
	40 Hz to 1 kHz	440 µV/V + 0.74 µV	Using digital multimeter; for the calibration of voltage sources.	A
	1 kHz to 20 kHz	480 µV/V + 0.74 µV		
	20 kHz to 50 kHz	0.10 % + 0.74 µV		
	50 kHz to 100 kHz	0.35 % + 0.74 µV		
	100 kHz to 500 kHz	2.7 % + 1.4 µV		
	12 mV to 120 mV			
	40 Hz to 1 kHz	80 µV/V + 1.4 µV		
	1 kHz to 20 kHz	130 µV/V + 1.4 µV		
	20 kHz to 50 kHz	420 µV/V + 1.4 µV		
	50 kHz to 100 kHz	650 µV/V + 1.4 µV		
	100 kHz to 500 kHz	0.21 % + 6.7 µV		
	0.12 V to 1.2 V			
	40 Hz to 1 kHz	60 µV/V + 14 µV		
	1 kHz to 20 kHz	110 µV/V + 14 µV		
	20 kHz to 50 kHz	210 µV/V + 14 µV		
	50 kHz to 100 kHz	560 µV/V + 14 µV		
	100 kHz to 500 kHz	0.21 % + 67 µV		
	500 kHz to 1 MHz	0.68 % + 67 µV		
	1.2 V to 12 V			
	1 Hz to 40 Hz	70 µV/V + 0.27 mV		
	40 Hz to 1 kHz	61 µV/V + 0.14 mV		
	1 kHz to 20 kHz	110 µV/V + 0.14 mV		
	20 kHz to 50 kHz	210 µV/V + 0.14 mV		
	50 kHz to 100 kHz	550 µV/V + 0.14 mV		
	100 kHz to 500 kHz	0.21 % + 0.67 mV		
	500 kHz to 1 MHz	0.68 % + 0.67 mV		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC VOLTAGE (continued)				
	12 V to 120 V			
	40 Hz to 1 kHz	150 μV/V + 1.4 mV		
	1 kHz to 20 kHz	170 μV/V + 1.4 mV		
	20 kHz to 50 kHz	250 μV/V + 1.4 mV		
	50 kHz to 100 kHz	820 μV/V + 1.4 mV		
	120 V to 700 V			
	40 Hz to 1 kHz	290 μV/V + 14 mV		
	1 kHz to 20 kHz	420 μV/V + 14 mV		
	700 V to 1000 V			
	10 Hz to 20 kHz	0.08 % + 260 mV		
	20 kHz to 50 kHz	0.15 % + 440 mV		
	50 kHz to 100 kHz	0.70 % + 700 mV		
	5 mV to 120 mV			
	10 Hz to 20 kHz	850 μV/V + 47 μV	Using digital multimeter; for the calibration of voltage sources.	B
	20 kHz to 50 kHz	0.15 % + 58 μV		
	50 kHz to 100 kHz	0.70 % + 95 μV		
	0.12 V to 1.2 V			
	10 Hz to 20 kHz	0.080 % + 350 μV		
	20 kHz to 50 kHz	0.15 % + 580 μV		
	50 kHz to 100 kHz	0.70 % + 950 μV		
	1.2 V to 12 V			
	10 Hz to 20 kHz	0.080 % + 3.5 mV		
	20 kHz to 50 kHz	0.15 % + 5.8 mV		
	50 kHz to 100 kHz	0.70 % + 9.5 mV		
	12 V to 120 V			
	10Hz to 20kHz	0.080 % + 35 mV		
	20kHz to 50kHz	0.15 % + 58 mV		
	50kHz to 100kHz	0.70 % + 95 mV		
	120 V to 1000 V			
	10 Hz to 20 kHz	0.080 % + 260 mV		
	20 kHz to 50 kHz	0.15 % + 440 mV		
	50 kHz to 100 kHz	0.70 % + 700 mV		
	1 kV to 12 kV			
	50 Hz to 60 Hz	0.5%	Using digital multimeter and high voltage divider; for the calibration of voltage sources.	A & B

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC VOLTAGE (continued)	200 µV to 2.2 mV			
	10 Hz to 20 Hz	510 µV/V + 4.0 µV	Using multifunction calibrator; for the calibration of measuring instruments.	A & B
	20 Hz to 40 Hz	450 µV/V + 4.0 µV		
	40 Hz to 20 kHz	450 µV/V + 4.0 µV		
	20 kHz to 50 kHz	490 µV/V + 4.0 µV		
	50 kHz to 100 kHz	670 µV/V + 5.0 µV		
	100 kHz to 300 kHz	0.12 % + 10 µV		
	300 kHz to 500 kHz	0.15 % + 20 µV		
	500 kHz to 1 MHz	0.29 % + 20 µV		
	2.2 mV to 22 mV			
	10 Hz to 20 Hz	270 µV/V + 4.0 µV		
	20 Hz to 40 Hz	130 µV/V + 4.0 µV		
	40 Hz to 20 kHz	120 µV/V + 4.0 µV		
	20 kHz to 50 kHz	220 µV/V + 4.0 µV		
	50 kHz to 100 kHz	510 µV/V + 5.0 µV		
	100 kHz to 300 kHz	0.11 % + 10 µV		
	300 kHz to 500 kHz	0.14 % + 20 µV		
	500 kHz to 1 MHz	0.28 % + 20 µV		
	22 mV to 220 mV			
	10 Hz to 20 Hz	290 µV/V + 12 µV		
	20 Hz to 40 Hz	110 µV/V + 7.0 µV		
	40 Hz to 20 kHz	72 µV/V + 7.0 µV		
	20 kHz to 50 kHz	140 µV/V + 7.0 µV		
	50 kHz to 100 kHz	320 µV/V + 17 µV		
	100 kHz to 300 kHz	680 µV/V + 20 µV		
	300 kHz to 500 kHz	0.15 % + 25 µV		
	500 kHz to 1 MHz	0.28 % + 45 µV		
	220 mV to 2.2 V			
	10 Hz to 20 Hz	250 µV/V + 40 µV		
	20 Hz to 40 Hz	92 µV/V + 15 µV		
	40 Hz to 20 kHz	44 µV/V + 8.0 µV		
	20 kHz to 50 kHz	70 µV/V + 10 µV		
	50 kHz to 100 kHz	90 µV/V + 30 µV		
	100 kHz to 300 kHz	350 µV/V + 80 µV		
	300 kHz to 500 kHz	0.11 % + 200 µV		
	500 kHz to 1 MHz	0.18 % + 300 µV		
	2.2 V to 22 V			
	10 Hz to 20 Hz	250 µV/V + 400 µV		
	20 Hz to 40 Hz	94 µV/V + 150 µV		
	40 Hz to 20 kHz	45 µV/V + 50 µV		
	20 kHz to 50 kHz	70 µV/V + 100 µV		
	50 kHz to 100 kHz	85 µV/V + 200 µV		
	100 kHz to 300 kHz	270 µV/V + 600 µV		
	300 kHz to 500 kHz	0.11 % + 2.0 mV		
	500 kHz to 1 MHz	0.16 % + 3.2 mV		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC VOLTAGE (continued)				
	22 V to 220 V			
	10 Hz to 20 Hz	250 μV/V + 4.0 mV		
	20 Hz to 40 Hz	94 μV/V + 1.5 mV		
	40 Hz to 20 kHz	57 μV/V + 600 μV		
	20 kHz to 50 kHz	85 μV/V + 1.0 mV		
	50 kHz to 100 kHz	160 μV/V + 2.5 mV		
	100 kHz to 300 kHz	910 μV/V + 16 mV		
	220 V to 1100 V			
	50 Hz to 1 kHz	88 μV/V + 3.5 mV		
AC CURRENT				
	6 μA to 120 μA			
	20 Hz to 45 Hz	0.11 % + 20 nA	Using digital multimeter; for the calibration of current. sources	A
	45 Hz to 100 Hz	470 μA/A + 20 nA		
	100 Hz to 5 kHz	470 μA/A + 20 nA		
	120 μA to 1.2 mA			
	10 Hz to 20 Hz	0.27 % + 140 nA		
	20 Hz to 45 Hz	0.10 % + 140 nA		
	45 Hz to 100 Hz	430 μA/A + 140 nA		
	100 Hz to 5 kHz	260 μA/A + 140 nA		
	5 kHz to 20 kHz	430 μA/A + 140 nA		
	20 kHz to 50 kHz	0.27 % + 270 nA		
	50 kHz to 100 kHz	0.37 % + 1.0 μA		
	1.2 mA to 12 mA			
	10 Hz to 20 Hz	0.27 % + 1.4 μA		A
	20 Hz to 45 Hz	0.11 % + 1.4 μA		
	45 Hz to 100 Hz	430 μA/A + 1.4 μA		
	100 Hz to 5 kHz	240 μA/A +1.4 μA		
	5 kHz to 20 kHz	430 μA/A +1.4 μA		
	20 kHz to 50 kHz	0.27 % + 2.7 μA		
	50 kHz to 100 kHz	0.37 % +14 μA		
	12 mA to 120 mA			
	10 Hz to 20 Hz	0.27 % + 14 μA		
	20 Hz to 45 Hz	0.11 % + 14 μA		
	45 Hz to 100 Hz	420 μA/A + 14 μA		
	100 Hz to 5 kHz	240 μA/A + 14 μA		
	5 kHz to 20 kHz	420 μA/A + 14 μA		
	20 kHz to 50 kHz	0.27 % + 27 μA		
	50 kHz to 100 kHz	0.37 % + 100 μA		
	120 mA to 1 A			
	10 Hz to 20 Hz	0.27 % + 140 μA		
	20 Hz to 45 Hz	0.11 % + 140 μA		
	45 Hz to 100 Hz	0.06 % + 140 μA		
	100 Hz to 5 kHz	0.07 % + 140 μA		
	5 kHz to 20 kHz	0.20 % + 140 μA		
	20 kHz to 50 kHz	0.67 % + 270 μA		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC CURRENT (continued)				
	1 A to 20 A			
	40 Hz to 1 kHz	750 μA/A		
	20 A to 100 A			
	40 Hz to 1 kHz	200 μA/A		
	5 μA to 120 μA			
	10 Hz to 5 kHz	0.18 % + 70 nA	Using digital multimeter; for the calibration of current sources.	B
	5 kHz to 10 kHz	0.41 % + 810 nA		
	0.12 mA to 1.2 mA			
	10 Hz to 5 kHz	0.18 % + 480 nA		
	5 kHz to 10 kHz	0.24 % + 2.9 μA		
	1.2 mA to 1 2mA			
	10 Hz to 5 kHz	0.18 % + 7.0 μA		
	5 kHz to 10 kHz	0.41 % + 81 μA		
	12 mA to 120 mA			
	10 Hz to 5 kHz	0.12 % + 47 μA		
	5 kHz to 10 kHz	0.23 % + 290 μA		
	120 mA to 400 mA			
	10Hz to 1kHz	0.12 % + 460 μA		
	1kHz to 10kHz	0.24 % + 3.3 mA		
	400 mA to 1.2 A			
	10 Hz to 5 kHz	0.12 % + 460 μA		
	5 kHz to 10 kHz	0.41 % + 8.1 mA		
	1.2 A to 3 A			
	10 Hz to 5 kHz	0.19 % + 2.1 mA		A
	5 kHz to 10 kHz	0.41 % + 25 mA		
	3 A to 10 A			
	10 Hz to 5 kHz	0.19 % + 7.0 mA		
	5 kHz to 10 kHz	0.42 % + 81 mA		
AC CURRENT	9 μA to 220 μA			
	10 Hz to 20 Hz	300 μA/A + 16 nA	Using multifunction calibrator; for the calibration of measuring instruments.	A & B
	20 Hz to 40 Hz	220 μA/A + 10 nA		
	40 Hz to 1 kHz	190 μA/A + 8.0 nA		
	1 kHz to 5 kHz	360 μA/A + 12 nA		
	5 kHz to 10 kHz	0.13 % + 65 nA		
	220 μA to 2.2 mA			
	10 Hz to 20 Hz	280 μA/A + 40 nA		
	20 Hz to 40 Hz	200 μA/A + 35 nA		
	40 Hz to 1 kHz	150 μA/A + 35 nA		
	1 kHz to 5 kHz	260 μA/A + 110 nA		
	5 kHz to 10 kHz	0.13 % + 650 nA		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC CURRENT (continued)	2.2 mA to 22 mA			
	10 Hz to 20 Hz	260 μA/A + 400 nA		
	20 Hz to 40 Hz	170 μA/A + 350 nA		
	40 Hz to 1 kHz	110 μA/A + 350 nA		
	1 kHz to 5 kHz	210 μA/A + 550 nA		
	5 kHz to 10 kHz	0.11 % + 5.0 μA		
	22 mA to 220 mA			
	10 Hz to 20 Hz	250 μA/A + 4.0 μA		
	20 Hz to 40 Hz	170 μA/A + 3.5 μA		
	40 Hz to 1 kHz	110 μA/A + 2.5 μA		
	1 kHz to 5 kHz	210 μA/A + 3.5 μA		
	5 kHz to 10 kHz	0.11 % + 10 μA		
	220 mA to 2.2 A			
	20 Hz to 1 kHz	250 μA/A + 35 μA		
	1 kHz to 5 kHz	450 μA/A + 80 μA		
	5 kHz to 10 kHz	0.70 % + 160 μA		
	2.2 A to 11 A			
	45 Hz to 65 Hz	550 μA/A + 1.6 mA		
	65 Hz to 500 Hz	830 μA/A + 1.6 mA		
	500 Hz to 1 kHz	0.26 % + 1.6 mA		
	45 Hz to 60 Hz			
	10 A to 100 A	0.15 %	For the calibration of current	A & B
	100 A to 500 A	0.55 %	clamps and similar devices,.	A & B
	500 A to 1000 A	0.60 %	using multi-turn coil method	A

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC RESISTANCE	*40 Hz to 1 kHz*			
	0.05 Ω	120 μΩ/Ω	Known values of resistance for the calibration of measuring instruments.	A
	0.1 Ω	90 μΩ/Ω		
	0.2 Ω	80 μΩ/Ω		
	0.5 Ω	75 μΩ/Ω		
	1 Ω	70 μΩ/Ω		
	2 Ω	70 μΩ/Ω		
	5 Ω	70 μΩ/Ω		
	10 Ω	45 μΩ/Ω		
	100 Ω	45 μΩ/Ω		
	1 kΩ	45 μΩ/Ω		
	10 kΩ	50 μΩ/Ω		
	100 kΩ	65 μΩ/Ω		
AC POWER	*47 Hz to 63 Hz*			
	Voltages 60 V to 240 V Currents 0.5 A to 5 A 15 W to 1200 W	280 μW/W	Using phantom load technique; unity to 0.5 power factor, capacitive or inductive.	A
	Voltages 60 V to 240 V Currents 5 A to 100 A 150 W to 24 kW	300 μW/W		
	33 mV to 1 kV 3.3 mA to 11A	0.020 %	Reported as the product VA.	A
FREQUENCY	0.2 Hz to 10 kHz	2 in 10^8	Multi-period measurement. Frequency measurement.	A
	10 kHz to 1 MHz	2 in 10^8		
	1 MHz to 10 GHz	2 in 10^9		
	10 GHz to 40 GHz	2 in 10^{10}		
	1 MHz and 10 MHz	5 in 10^{12}	Calibration of stable fixed value oscillators.	
TIME INTERVAL	1 s to 12 days	40 ns	Stopwatch calibration.	
TRANSITION TIME	250 ps to 500 ns	5.0 % + 45 ps	For oscilloscope calibration using fast pulse generator.	A & B
BANDWIDTH	50 kHz to 1 GHz	5.0 %	For oscilloscope calibration using wide band oscillator.	A & B

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
CAPACITANCE	*At 1 kHz* 10 pF to 10 µF	0.065 %	Measurement of capacitance using LCR meter.	A
	DC, 50 Hz to 1 kHz 0.5 nF to 1.1 nF 1.1 nF to 3.3 nF 3.3 nf to 11 nF 11 nF to 33 nF 33 nF to 110 nF 110 nF to 330 nF 0.33 µF to 1.1 µF 1.1 µF to 3.3 µF DC, 50 Hz to 400 Hz 3.3 µF to 11 µF 11 µF to 33 uF DC, 50 Hz to 100 Hz 33 µF to 110 µF 110 µF to 330 µF	 0.41 % + 7.8 pF 0.40 % + 7.8 pF 0.40 % + 7.8 pF 0.21 % + 78 pF 0.21 % + 78 pF 0.21 % + 230 pF 0.21 % + 0.78 pF 0.29 % + 2.4 nF 0.29 % + 7.8 nF 0.34 % + 24 nF 0.42 % + 78 nF 0.55 % + 240 nF	Using Multifucntion calibrator For the calibration of Measuring equipment	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
OSCILLOSCOPE CHARACTERISTICS				
Vertical deflection as a Voltage	0 to 25 mV 25 mV to 110 mV 110 mV to 2.2 V 2.2 V to 11 V 11 V to 130 V	390 µV/V + 47 µV 0.17 % 0.13 % 670 µV/V 0.12 %	Into 1 MΩ	A
	0 to 25 mV 25 mV to 110 mV 110 mV to 2.2 V 2.2 V to 6.6 V	0.20 % + 47 µV 0.33 % 0.25 % 0.21 %	Into 50 Ω	
Square wave peak to peak volage.	0 V to 25 mV 25 mV to 110 mV 110 mV to 2.2 V 2.2 V to 11 V 11 V to 130 V	780 µV/V + 52 µV 0.21 % 0.15 % 0.10 % 0.14 %	Into 1 MΩ	A
	0 to 25 mV 25 mV to 110 mV 110 mV to 2.2 V 2.2 V to 6.6 V	0.20 % + 47 µV 0.33 % 0.25 % 0.21 %	Into 50 Ω	
Level sine wave flatness for bandwidth respect to set point value.	50 kHz to 100 MHz 50 kHz to 300 MHz 100 kHz to 2 GHz	2.0% 2.5 % 2.5 %	3 dB point uncertainty will be Reported as a frequency	A
Resistance				A
	40 Ω to 60 Ω 500 kΩ to 1.5 MΩ	0.085 % 0.080%		
Capacitance				A
	5 pF to 50 pF	0.59 pF		
Time Markers				
	2 ns to 20 ns 50 ns to 100 ns 100 ns to 1 s 1 s to 5 s	4.0 µs/s 150 µs/s 0.12 % 0.59 %		A
Risetime				A
	250 ps Nominal *1 kHz to 10 MHz* *250 mV to 500 mV pp*	100 ps		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEMPERATURE SIMULATION Ambient in support of reference junction	17 ˚C to 30 ˚C	0.10 ˚C		
Temperature indicators, calibration by electrical simulation	Simulated temperature	Uncertainty of simulated temperature		
Type K	-200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 1000 °C 1000 °C to 1373 °C	0.28 °C 0.18 °C 0.16 °C 0.23 °C 0.33 °C	Including cold junction compensation.	A
Type J	-210 °C to -100 °C -100 °C to -30 °C -30 °C to 150 °C 150°C to 760 °C 760 °C to 1200 °C	0.24 °C 0.16 °C 0.15 °C 0.17 °C 0.21 °C		
Type E	-250 °C to -100 °C -100 °C to -25 °C -25 °C to 350 °C 350 °C to 650 °C 650 °C to 1000 °C	0.44 °C 0.24 °C 0.23 °C 0.24 °C 0.26 °C		
Type B	600 °C to 800 °C 800 °C to 1000 °C 1000 °C to 1550 °C 1550 °C to 1820 °C	0.41 °C 0.34 °C 0.32 °C 0.33 °C		
Type N	-200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 410 °C 410 °C to 1300 °C	0.37 °C 0.27 °C 0.18 °C 0.18 °C 0.30 °C		
Type T	-250 °C to -150 °C -150 °C to 0 °C 0 °C to 120 °C 120 °C to 400 °C	0.53 °C 0.28 °C 0.24 °C 0.23 °C		
Type R	0 °C to 250 °C 250 °C to 400 °C 400 °C to 1000 °C 1000 °C to 1767 °C	0.49 °C 0.35 °C 0.33 °C 0.38 °C		
Type S	0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1400 °C 1400 °C to 1767 °C	0.42 °C 0.35 °C 0.36 °C 0.42 °C		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Resistance thermometer (Pt 100)	-200°C to +800°C	0.10 °C	Using equivalent DC resistance values.	
Type K	-200 °C to -100 °C -100 °C to 400 °C 400 °C to 1372 °C	0.72 °C 0.60 °C 0.65 °C	Including cold junction compensation.	B
Type J	-200 °C to -100 °C -100 °C to 800 °C 800 °C to 1200 °C	0.60 °C 0.50 °C 0.60 °C		
Type N	-200 °C to -100 °C -100 °C to 1300 °C	0.92 °C 0.50 °C		
Type T	-250 °C to -200 °C -200 °C to 0 °C 0 °C to +400 °C	1.25 °C 0.85 °C 0.60 °C		
Resistance thermometer (Pt 100)	-200°C to 800°C	0.10 °C	Using equivalent DC resistance values.	B
Excluding reference junction Compensation Type K	-200 °C to -150 °C -150 °C to -100 °C -100 °C to 1370 °C	0.069 °C 0.060 °C 0.061 C		A
Type J	-200 °C to -150 °C -150 °C to -100 °C -100 °C to 1200 °C	0.062 °C 0.056 °C 0.056 °C		
Type T	-250 °C to -200 °C -200 °C to -100 °C -100 °C to 400 °C	0.12 °C 0.065 °C 0.058 °C		
Type N	-250 °C to -200 °C -200 °C to -100 °C -100 °C to 1300 °C	0.24 °C 0.086 °C 0.062 °C		
Type E	-250 °C to -200 °C -200 °C to -100 °C -100 °C to 1000 °C	0.087 °C 0.060 °C 0.055 °C		
Type B	300 °C to 500 °C 500 °C to 1000 °C 1000 °C to 1820 °C	0.23 °C 0.15 °C 0.092 °C		
Type R	-50 °C to 100 °C 100 °C to 300 °C 300 °C to 1768 °C	0.19 °C 0.11 °C 0.092 °C		
Type S	-50 °C to 100 °C 100 °C to 300 °C 300 °C to 1768 °C	0.18 °C 0.11 °C 0.092 °C		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
CALIBRATION OF 17TH / 18TH EDITION TEST EQUIPMENT			Using dedicated calibrator.	A & B
Insulation Resistance	10 Kω to 5 MΩ 5 MΩ to 2 GΩ 2 GΩ tp 10 GΩ	0.11 % 1.3 % 5.1 %		
Insulation Voltage	0 V to 1100 V	1.0 % + 0.87 V		
RCD Trip Current	2 Ma to 10 Ma 10 Ma to 30 Ma 30 Ma to 100 Ma 100 Ma to 300 Ma 300 Ma to 1000 Ma 1000 Ma to 3 A	1.2 % + 65 μA 1.2 % + 110 μA 1.2 % + 190 μA 1.2 % + 850 μA 1.2 % + 1.7 Ma 1.2 % + 3.0 Ma		
RCD Trip Time	20 ms to 500 ms 500 ms to 1000 ms	0.90 ms 0.90 ms		
Continuity Resistance	0 Ω to 10 Ω 10 Ω to 1 kΩ 1 kΩ to 5 kΩ 5 kΩ to 50 kΩ	0.25 % + 11 Mω 0.25 % + 110 Mω 0.25 % + 1.1 Ω 0.25 % + 11 Ω		
Loop impedance	50 mΩ to 10 Ω 10 Ω to 1 kΩ	0.50 % + 12 Mω 0.50 % + 37 Mω		
PAT test Voltage	90 V to 420 V nominal 50 Hz	0.20 % + 0.50 V		
Earth Bond resistance	50 mΩ to 5 Ω 5 Ω to 100 Ω 100 to 1 kΩ	0.50 % + 5.5 mΩ 0.50 % + 25 mΩ 0.50 % + 130 mΩ		
Earth bond current	10 Ma to 500 Ma 500 Ma to 30 A	1.5 % + 6.5 Ma 1.5 % + 75 Ma		
PAT Leakage current	2 Ma to 8 Ma	1.5 % + 9.7 μA		
Flash Test Voltage	1 Kv to 1.8 Kv (class 1) 2 Kv to 3.6 Kv (class 2)	4.0 % + 16 V 4.0 % + 23 V		
Flash Current	1 Ma to 3Ma	5 % + 18 μA		
Load for PAT	0.13 Kw	1.0 % + 1.5 Ω	At nominal UK mains supply voltage	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
HIPOT /HV Testers				A
HVDC Voltage	500 V to 12 Kv	0.54 % + 35 V		
HVAC Peak Voltage	*50 Hz to 60 Hz* 500 V to 4 Kv 4 Kv to 12 Kv	 0.70 % + 35 V 0.95 % + 40 V		
DC Leakage Current	0 Ma to 200 μA 0.2 Ma to 2.0 Ma 2.0 Ma to 20 Ma	0.50 % + 0.55 μA 0.50 % + 3.6 μA 0.50 % + 38 μA		
AC Leakage Current	50 Hz to 60 Hz 2 μA to 200 μA 200 μA to 2 Ma 2 Ma to 20 Ma	0.52 % + 0.55 μA 0.52 % + 2.0 μA 0.52 % + 20 Ua		
RF ELECTRICAL MEASUREMENTS				A
RF Power				
1 Mw reference	1 Mw *50 MHz*	0.30 %	For outputs with a VRC of up to 0.05	
Flatness at nominal 1 Mw (0.8 Mw to 1.2 Mw)	100 kHz to 50 MHz 50 MHz to 5 GHz 5 GHz to 15 GHz 15 GHz to 18 GHz	0.85 % 0.80 % 0.95 % 1.0 %		
RF Power	100 kHz to 10 MHz 0.01 Mw to 0.12 Mw 0.12 Mw to 0.8 Mw 1.2 Mw to 10 Mw 10 Mw to 100 Mw	 1.5 % 1.1 % 1.5 % 4.3 %		
	10 MHz to 18 GHz 0.01 μW to 1.2 μW 1.2 μW to 10 μW 0.01 Mw to 0.12 Mw 0.12 Mw to 0.8 Mw 1.2 Mw to 10 Mw 10 Mw to 100 Mw	 2.7 % 4.8 % 1.6 % 1.3 % 1.6 % 4.3 %		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
RF ELECTRICAL MEASUREMENTS (continued)				A
Calibration factor				
Nominal 1 Mw	*0.1 MHz*	*0.75 %*	N type Male connectors with a VRC of less than 0.01 sensors with other connector types can be calibrated but at larger uncertainties.	
	0.3 MHz	*0.75 %*		
	0.5 MHz	0.75 %		
	1 MHz	0.75 %		
	3 MHz	0.75 %		
	5 MHz	0.75 %		
	10 MHz	0.80 %		
	30 MHz	0.80 %		
	0.1 GHz	0.70 %		
	0.3 GHz	0.70 %		
	0.5 GHz	0.65 %		
	1.0 GHz	0.65 %		
	1.5 GHz	0.65 %		
	2.0 GHz	0.65 %		
	3.0 GHz	0.75 %		
	4.0 GHz	0.75 %		
	5.0 GHz	0.80 %		
	6.0 GHz	0.80 %		
	7.0 GHz	0.90 %		
	8.0 GHz	0.90 %		
	9.0 GHz	1.1 %		
	10.0 GHz	1.3 %		
	11.0 GHz	1.2 %		
	12.0 GHz	1.0 %		
	12.4 GHz	1.0 %		
	13.0 GHz	1.0 %		
	14.0 GHz	1.0 %		
	15.0 GHz	1.0 %		
	16.0 GHz	1.0 %		
	17.0 GHz	1.0 %		
	18.0 GHz	1.0 %		
MODULATION Carrier 10 MHz to 1.3 GHz				
Amplitude modulation Rate 50 Hz to 50 kHz				
Modulation Factor	0.05 to 0.10	0.0020		
	0.10 to 0.40	0.0050		
	0.40 to 0.60	0.0075		
	0.60 to 0.99	0.012		
Frequency modulation Rate 50 Hz to 100 kHz				
Deviation	1 kHz to 400 kHz	1.2 %		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
MODULATION (continued) Phase modulation Rate 200 Hz to 20 kHz Deviation	 0.4 rad to 4 rad 4 rad to 400 rad	 3.7 % 3.5 %		A
VOLTAGE REFLECTION COEFFICIENT	*300 kHz to 3 GHz* 0 to 0.1 0.1 to 0.2 0.2 to 0.3 0.3 to 0.4 0.4 to 0.5 0.5 to 0.6 0.6 to 0.7 0.7 to 0.8 0.8 to 0.9 0.9 to 1.0 *3 GHz to 8 GHz* 0 to 0.1 0.1 to 0.2 0.2 to 0.3 0.3 to 0.4 0.4 to 0.5 0.5 to 0.6 0.6 to 0.7 0.7 to 0.8 0.8 to 0.9 0.9 to 1.0 *8 GHz to 18 GHz* 0 to 0.1 0.1 to 0.2 0.2 to 0.3 0.3 to 0.4 0.4 to 0.5 0.5 to 0.6 0.6 to 0.7 0.7 to 0.8 0.8 to 0.9 0.9 to 1.0	 0.010 0.011 0.012 0.014 0.016 0.019 0.023 0.026 0.031 0.036 0.015 0.016 0.017 0.019 0.021 0.024 0.027 0.031 0.035 0.040 0.015 0.016 0.018 0.021 0.025 0.029 0.034 0.040 0.047 0.054		A

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ATTENUATION				A
	300 kHz to 3 GHz		System A	
	0 dB to 20 dB	0.080 dB		
	20 dB to 40 dB	0.080 dB		
	40 dB to 60 dB	0.13 dB		
	60 dB to 70 dB	0.33 dB		
	2.5 MHz to 1.3 GHz		System B	
	0 dB to 10 dB	0.060 dB		
	10 dB to 40 dB	0.080 dB		
	40 dB to 80 dB	0.080 dB		
	80 dB to 110 dB	0.080 dB		
	1.3 GHz to 8 GHz			
	0 dB to 10 dB	0.17 dB		
	10 dB to 40 dB	0.13 dB		
	40 dB to 95 dB	0.13 dB		
	95 dB to 100 dB	0.25 dB		
	8 GHz to 18 GHz			
	0 dB to 10 dB	0.24 dB		
	10 dB to 40 dB	0.17 dB		
	40 dB to 90 dB	0.17 dB		
	90 dB to 100 dB	0.27 dB		
Impedance and Voltage division factor (LISNs and CDNs)				A
IMPEDANCE				
3 Ω to 250 Ω	9 kHz to 100 kHz	2.5 %		
	100 kHz to 10 MHz	2.5 %		
	10 MHz to 100 MHz	3.5 %		
	100 MHz to 230 MHz	4.5 %		
	230 MHz to 400 MHz	8.5%		
IMPEDANCE PHASE				
3 Ω to 100 Ω	9 kHz to 100 kHz	0.46 ^{o}		
	100 kHz to 10 MHz	0.48 ^{o}		
	10 MHz to 100 MHz	1.6 ^{o}		
INSERTION LOSS / VDF				
0 dB to 40 dB	9 kHz to 100 kHz	0.10 dB		
	100 kHz to 10 MHz	0.20 dB		
	10 MHz to 100 MHz	0.30 dB		
	100 MHz to 200 MHz	0.50 dB		
	200 MHz to 400 MHz	0.70 dB		
40 dB to 60 dB	9 kHz to 100 kHz	0.50 dB		
	100 kHz to 10 MHz	0.50 dB		
	10 MHz to 100 MHz	0.60 dB		
	100 MHz to 200 MHz	0.70 dB		
	200 MHz to 400 MHz	0.80 dB		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
INSERTION LOSS / VDF (continued)				A
60 dB to 80 dB	9 kHz to 100 kHz 100 kHz to 10 MHz 10 MHz to 100 MHz 100 MHz to 200 MHz 200 MHz to 400 MHz	0.90 dB 0.90 dB 1.0 dB 1.0 dB 1.1 dB		
PRESSURE CALIBRATION			Calibration of devices with an electrical output may be undertaken.	
Gas pressure (gauge)				A
Calibration of pressure indicators and gauges	-95 kPa to +200 kPa 200 kPa to 300 kPa 300 kPa to 350 kPa 350 kPa to 2 MPa 2 MPa to 10 MPa	Q[0.010 %, 35 Pa] Q[0.020 %, 0.11 kPa] Q[0.030 %, 75 Pa] Q[0.010 %, 0.48 kPa] Q[0.010 %, 2.7 kPa]	Calibration by comparison with digital pressure standards.	A
Gas pressure (absolute)				A
Calibration of pressure indicators and gauges	10 kPa to 300 kPa 300 kPa to 2.1 MPa 2.1 MPa to 10 MPa	Q[0.020 %, 0.11 kPa] Q[0.010 %, 0.48 kPa] Q[0.010 %, 1.9 kPa]	Calibration by comparison with digital pressure standards.	A
Hydraulic pressure (gauge)				A
Calibration of pressure indicators and gauges	550 kPa to 6.9 MPa 6.9 MPa to 69 MPa	0.005 5 % 0.003 5 %	Calibration by comparison with deadweight tester.	A
Calibrations using water	0 MPa to 100 MPa	Q[0.010 %, 21 kPa]	Calibration by comparison with digital pressure standards.	A

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