

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0143 Accredited to ISO/IEC 17025:2017	DM Calibration Limited Issue No: 051 Issue date: 02 June 2026	
	3 Icen 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 Icen 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 and 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 and Electrical.	B



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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			All linear calibration results may also be stated in inch units.	
LENGTH				
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



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
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ANGLE				
Squares Blade type	Squareness of blade to stock 50 to 300 300 to 600	6.0 7.0	As BS 939:2007	A
	Straightness of blade: Flatness: Parallelism: Squareness of side faces: Squareness of blade edges: Lateral squareness:	2.5 2.5 2.5 7.0 6.0 20		
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		As BS 817:2008	A & B
	Flatness of working surface:	1.5 + (0.80 x diagonal in m)		
	Local variation of working surface:	2.0		



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MEASURING INSTRUMENTS AND MACHINES				
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 $1.0 + (8.0 \times \text{length in m})$ 0.30 1.0 6.0	Instrument entries in this section of the schedule also cover digital and dial type gauges which are calibrated based on the quoted standards.	A
Internal micrometer	Based on BS 959:2008 0 to 900 Heads: Setting and Extension rods:	2.0 $1.2 + (8.0 \times \text{length in m})$		A



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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



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Range in millimetres and uncertainty in micrometres unless otherwise stated	0 to 1000 Flatness: Parallelism: Depth of Jaw/Scriber:	Overall performance $10 + (30 \times \text{length in m})$ 1.0 3.0 4.0	BS 1643:2008 and ISO13225:2012	A
Depth	0 to 600 Flatness/Straightness: Parallelism:	Overall performance $10 + (30 \times \text{length in m})$ 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



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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



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



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DC VOLTAGE				
Reference standard values	10 V	0.20 $\mu\text{V/V}$	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 $\mu\text{V/V} + 0.32 \mu\text{V}$ 1.6 $\mu\text{V/V} + 0.24 \mu\text{V}$ 0.70 $\mu\text{V/V}$ 2.0 $\mu\text{V/V}$ 7.1 $\mu\text{V/V} + 0.41 \text{ mV}$ 0.20 %	Using digital multimeter; for the calibration of voltage sources. Using high voltage source and divider.	A 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 $\mu\text{V/V} + 4.5 \mu\text{V}$ 32 $\mu\text{V/V}$ 30 $\mu\text{V/V}$ 47 $\mu\text{V/V}$ 480 $\mu\text{V/V}$ 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 $\mu\text{V/V} + 0.80 \mu\text{V}$ 5.1 $\mu\text{V/V} + 1.0 \mu\text{V}$ 3.7 $\mu\text{V/V} + 2.6 \mu\text{V}$ 3.6 $\mu\text{V/V} + 4.1 \mu\text{V}$ 5.1 $\mu\text{V/V} + 40 \mu\text{V}$ 6.6 $\mu\text{V/V} + 400 \mu\text{V}$	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 to 40 A 40 A to 100 A	15 $\mu\text{A/A}$ 20 $\mu\text{A/A}$ 25 $\mu\text{A/A}$ 25 $\mu\text{A/A}$ 45 $\mu\text{A/A}$ 50 $\mu\text{A/A}$ 85 $\mu\text{A/A}$ 380 $\mu\text{A/A}$	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 $\mu\text{A/A} + 31 \text{ nA}$ 600 $\mu\text{A/A} + 60 \text{ nA}$ 600 $\mu\text{A/A} + 2.4 \mu\text{A}$ 600 $\mu\text{A/A} + 12 \mu\text{A}$ 600 $\mu\text{A/A} + 26 \mu\text{A}$ 600 $\mu\text{A/A} + 240 \mu\text{A}$ 0.12 % + 700 μA 0.18 % + 930 μA 75 $\mu\text{A/A} + 75 \mu\text{A}$	Using digital multimeter; for the calibration of current sources.	B



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



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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 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	150 μ V/V + 1.4 mV 170 μ V/V + 1.4 mV 250 μ V/V + 1.4 mV 820 μ V/V + 1.4 mV		
	120 V to 700 V 40 Hz to 1 kHz 1 kHz to 20 kHz	290 μ V/V + 14 mV 420 μ V/V + 14 mV		
	700 V to 1000 V 10 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.08 % + 260 mV 0.15 % + 440 mV 0.70 % + 700 mV		
AC VOLTAGE	5 mV to 120 mV 10 Hz to 20 kHz 20 kHz to 50 kHz	850 μ V/V + 47 μ V 0.15 % + 58 μ V	Using digital multimeter; for the calibration of voltage sources.	B
	50 kHz to 100 kHz	0.70 % + 95 μ V		
	0.12 V to 1.2 V 10 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.080 % + 350 μ V 0.15 % + 580 μ V 0.70 % + 950 μ V		
	1.2 V to 12 V 10 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.080 % + 3.5 mV 0.15 % + 5.8 mV 0.70 % + 9.5 mV		
	12 V to 120 V 10Hz to 20kHz 20kHz to 50kHz 50kHz to 100kHz	0.080 % + 35 mV 0.15 % + 58 mV 0.70 % + 95 mV		
	120 V to 1000 V 10 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.080 % + 260 mV 0.15 % + 440 mV 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



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



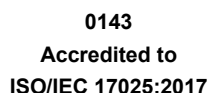
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AC VOLTAGE (continued)	22 V to 220 V 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz	250 $\mu\text{V/V} + 4.0 \text{ mV}$ 94 $\mu\text{V/V} + 1.5 \text{ mV}$ 57 $\mu\text{V/V} + 600 \mu\text{V}$ 85 $\mu\text{V/V} + 1.0 \text{ mV}$ 160 $\mu\text{V/V} + 2.5 \text{ mV}$ 910 $\mu\text{V/V} + 16 \text{ mV}$		
AC CURRENT	220 V to 1100 V 50 Hz to 1 kHz	88 $\mu\text{V/V} + 3.5 \text{ mV}$		
	6 μA to 120 μA 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz	0.11 % + 20 nA 470 $\mu\text{A/A} + 20 \text{ nA}$ 470 $\mu\text{A/A} + 20 \text{ nA}$	Using digital multimeter; for the calibration of current. sources	A
	120 μA to 1.2 mA 10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz 5 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.27 % + 140 nA 0.10 % + 140 nA 430 $\mu\text{A/A} + 140 \text{ nA}$ 260 $\mu\text{A/A} + 140 \text{ nA}$ 430 $\mu\text{A/A} + 140 \text{ nA}$ 0.27 % + 270 nA 0.37 % + 1.0 μA		
	1.2 mA to 12 mA 10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz 5 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.27 % + 1.4 μA 0.11 % + 1.4 μA 430 $\mu\text{A/A} + 1.4 \mu\text{A}$ 240 $\mu\text{A/A} + 1.4 \mu\text{A}$ 430 $\mu\text{A/A} + 1.4 \mu\text{A}$ 0.27 % + 2.7 μA 0.37 % + 14 μA		A
	12 mA to 120 mA 10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz 5 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.27 % + 14 μA 0.11 % + 14 μA 420 $\mu\text{A/A} + 14 \mu\text{A}$ 240 $\mu\text{A/A} + 14 \mu\text{A}$ 420 $\mu\text{A/A} + 14 \mu\text{A}$ 0.27 % + 27 μA 0.37 % + 100 μA		
	120 mA to 1 A 10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz 5 kHz to 20 kHz 20 kHz to 50 kHz	0.27 % + 140 μA 0.11 % + 140 μA 0.06 % + 140 μA 0.07 % + 140 μA 0.20 % + 140 μA 0.67 % + 270 μA		



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Assessment Manager: JW7



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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 20 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz	260 μ A/A + 400 nA 170 μ A/A + 350 nA 110 μ A/A + 350 nA 210 μ A/A + 550 nA 0.11 % + 5.0 μ A		
	22 mA to 220 mA 10 Hz to 20 Hz 20 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz	250 μ A/A + 4.0 μ A 170 μ A/A + 3.5 μ A 110 μ A/A + 2.5 μ A 210 μ A/A + 3.5 μ A 0.11 % + 10 μ A		
	220 mA to 2.2 A 20 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz	250 μ A/A + 35 μ A 450 μ A/A + 80 μ A 0.70 % + 160 μ A		
	2.2 A to 11 A 45 Hz to 65 Hz 65 Hz to 500 Hz 500 Hz to 1 kHz	550 μ A/A + 1.6 mA 830 μ A/A + 1.6 mA 0.26 % + 1.6 mA		
	45 Hz to 60 Hz 10 A to 100 A 100 A to 500 A 500 A to 1000 A	0.15 % 0.55 % 0.60 %	For the calibration of current clamps and similar devices,. using multi-turn coil method	A & B A & B A



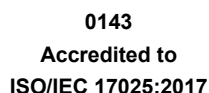
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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
AC RESISTANCE	40 Hz to 1 kHz 0.05 Ω 0.1 Ω 0.2 Ω 0.5 Ω 1 Ω 2 Ω 5 Ω 10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω	120 $\mu\Omega/\Omega$ 90 $\mu\Omega/\Omega$ 80 $\mu\Omega/\Omega$ 75 $\mu\Omega/\Omega$ 70 $\mu\Omega/\Omega$ 70 $\mu\Omega/\Omega$ 70 $\mu\Omega/\Omega$ 45 $\mu\Omega/\Omega$ 45 $\mu\Omega/\Omega$ 45 $\mu\Omega/\Omega$ 50 $\mu\Omega/\Omega$ 65 $\mu\Omega/\Omega$	Known values of resistance for the calibration of measuring instruments.	A
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 Voltages 60 V to 240 V Currents 5 A to 100 A 150 W to 24 kW 33 mV to 1 kV 3.3 mA to 11A	280 $\mu\text{W/W}$ 300 $\mu\text{W/W}$ 0.020 %	Using phantom load technique; unity to 0.5 power factor, capacitive or inductive. Reported as the product VA.	A A
FREQUENCY	0.2 Hz to 10 kHz 10 kHz to 1 MHz 1 MHz to 10 GHz 10 GHz to 40 GHz 1 MHz and 10 MHz	2 in 10^8 2 in 10^8 2 in 10^9 2 in 10^{10} 5 in 10^{12}	Multi-period measurement. Frequency measurement. Calibration of stable fixed value oscillators.	A
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



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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 Multifuction calibrator For the calibration of Measuring equipment	



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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 μ V/V + 47 μ V 0.17 % 0.13 % 670 μ V/V 0.12 %	Into 1 M Ω	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 μ V 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 μ V/V + 52 μ V 0.21 % 0.15 % 0.10 % 0.14 %	Into 1 M Ω	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 μ V 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	40 Ω to 60 Ω 500 k Ω to 1.5 M Ω	0.085 % 0.080%		A
Capacitance	5 pF to 50 pF	0.59 pF		A
Time Markers	2 ns to 20 ns 50 ns to 100 ns 100 ns to 1 s 1 s to 5 s	4.0 μ s/s 150 μ s/s 0.12 % 0.59 %		A
Risetime	250 ps Nominal 1 kHz to 10 MHz 250 mV to 500 mV pp	100 ps		A



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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		
Resistance thermometer (Pt 100)	-200 °C to +800 °C	0.10 °C	Using equivalent DC resistance values.	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
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		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
CALIBRATION OF 17 TH / 18 TH 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	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
HIPOT /HV Testers				
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 μ A 0.2 mA to 2.0 mA 2.0 mA to 20 mA	0.50 % + 0.55 μ A 0.50 % + 3.6 μ A 0.50 % + 38 μ A		
AC Leakage Current	50 Hz to 60 Hz 2 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA	0.52 % + 0.55 μ A 0.52 % + 2.0 μ A 0.52 % + 20 μ A		
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 10 MHz to 18 GHz 0.01 μ W to 1.2 μ W 1.2 μ W to 10 μ W 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 % 2.7 % 4.8 % 1.6 % 1.3 % 1.6 % 4.3 %		



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



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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	<i>300 kHz to 3 GHz</i> 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 <i>3 GHz to 8 GHz</i> 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 <i>8 GHz to 18 GHz</i> 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		



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



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
INSERTION LOSS / VDF (continued) 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		A
PRESSURE CALIBRATION			Calibration of devices with an electrical output may be undertaken.	A
Gas pressure (gauge)				A
Calibration of pressure indicators and gauges	-95 kPa to +200 kPa 200 kPa to 2 MPa 2 MPa to 10 MPa	180 Pa 650 Pa 3.0 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	380 Pa 850 Pa 3.2 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	0.66 kPa 4.7 kPa	Calibration by comparison with deadweight tester.	A
Calibrations using water	0 MPa to 100 MPa	30 kPa	Calibration by comparison with digital pressure standards.	A
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: $Q[a, b] = [a^2 + b^2]^{1/2}$