Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0324

Accredited to ISO/IEC 17025:2017

Transmille Ltd

Issue No: 044 **Issue date:** 24 March 2026

Unit 4
Select Business Centre
Lodge Road
Staplehurst
Kent
TN12 0QW

Contact: Mr M A Bailey
Tel: +44 (0)1580 890700
Fax: +44 (0)1580 890711
E-Mail: sales@transmille.com
Website: www.transmille.com

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			
DC RESISTANCE			Using ratio techniques with reference to known resistance values. Both measurement and generation of these resistance values may be reported
Range values	0 Ω to 1 mΩ 1 mΩ to 10 mΩ 10 mΩ to 100 mΩ 100 mΩ to 1 Ω 1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ	850 pΩ 0.85 μΩ/Ω 0.80 μΩ/Ω 0.60 μΩ/Ω 0.50 μΩ/Ω 0.70 μΩ/Ω 0.65 μΩ/Ω 0.36 μΩ/Ω 0.45 μΩ/Ω	The uncertainties are for resistors suitable for oil immersion or placing in an air bath at 18 to 28 °C. The quoted uncertainty may be increased for other types of resistor.
	100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ 1 GΩ to 10 GΩ 10 GΩ to 100 GΩ 100 GΩ to 1 TΩ	14 μΩ/Ω + 2.2 Ω 20 μΩ/Ω + 90 Ω 510 μΩ/Ω +1.5 kΩ 0.58 % + 20 kΩ 0.41 % 1.6 % 0.58 % + 21 kΩ	Using digital multimeter. The uncertainties are for resistors suitable for placing in an air bath at 18 to 28 °C. The quoted uncertainty may be increased for other types of resistor.
Specific Values	1 Ω 10 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ 10 GΩ 100 GΩ 1 TΩ	310 nΩ 2.8m Ω 4.8 Ω 110 Ω 3.5 kΩ 110 kΩ 29 MΩ 530 MΩ 7.6 GΩ	Fixed value resistors are used for the generation of these values. Measurement of resistors is performed by comparison against these fixed value resistors.

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION (continued)			
DC VOLTAGE			
Range values	0 mV to 10 mV 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1 kV	440 nV 490 nV 1.5 µV/V + 440 nV 1.6 µV/V 1.8 µV/V 2.0 µV/V	Both measurement and generation of these DC voltage values may be reported. Calibrations performed with digital multimeter/monitored voltage source.
Specific values	100 mV 1 V 10 V 100 V 1 kV	300 nV 1.1 µV 6.5 µV 110 µV 1.2 mV	Both measurement and generation of these DC voltage values may be reported. Calibrations performed using DC voltage standard and reference divider.
High Voltage	1 kV to 5 kV 5 kV to 40 kV	0.20 % + 5.0 V 0.25 % + 10 V	Calibrations performed using HV divider and digital multimeter. Measurement of these values can be performed over the full range; generation is limited to a maximum of 30 kV.
DC Current			
	0 A to 10 nA 10 nA to 100 nA 100 nA to 1 µA 1 µA to 10 µA	0.30 % + 1.0 pA 40 µA/A + 28 pA 21 µA/A + 29 pA 15 µA/A + 33 pA	Both measurement and generation of these DC current values may be reported. Using voltage and resistance method.
	10 µA to 100 µA 100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1A to 2A 2 A to 10 A 10 A to 30 A 30 A to 100 A	4.3 µA/A + 100 pA 4.5 µA/A + 950 pA 3.6 µA/A + 22 nA 4.4 µA/A + 100 nA 7.6 µA/A + 700 nA 14 µA/A 46 µA/A 60 µA/A 190 µA/A	Both measurement and generation of these DC current values may be reported. Using digital multimeter and current shunt.
	10 A to 1500 A	0.23 % + 1.3 A	Generation only. For the calibration of clamp-on ammeters and similar devices using a multi-turn coil technique.

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION (continued) AC VOLTAGE Specific values			Using AC/DC transfer techniques. Both measurement and generation of these values may be undertaken.

The uncertainties shown relate to voltages and frequencies that lie within 10% of the specified values. For intermediate frequencies the quoted uncertainty will be the larger of the adjacent uncertainties. The uncertainties are presented in µV/V, relative to the nominal voltage.

Frequency (kHz)

Voltage (V)	0.01	0.023	0.04	0.206	1	10	20	50	100	200	500	1000
0.002	2600	1900	1900	1900	1900	2000	1900	1900	2300	3000	5000	6000
0.01	400	350	350	350	350	350	350	370	590	820	1400	1700
0.02	330	220	180	180	180	180	180	240	500	750	1300	1500
0.1	240	110	60	60	60	60	60	120	170	520	690	690
0.2	230	95	48	48	48	48	48	120	180	500	700	700
0.3	260	94	60	60	60	60	60	60	120	180	540	700
0.5	260	94	60	60	60	60	60	120	120	520	700	700
0.7	230	82	36	32	32	32	32	53	70	160	500	630
1	220	71	38	23	23	23	23	49	60	130	500	520
2	220	75	35	23	23	23	23	50	60	140	500	500
5	220	72	32	20	20	20	20	48	60	140	500	
10	220	71	38	28	28	28	28	49	60	140	500	
20	220	70	35	26	26	26	26	50	60	140	140	
50	220	72	34	30	30	30	30	60	78			
100			39	39	39	39	39	77	83			
200			38	38	38	38	38	70	85			
500			50	50	50	50	52	78				
1000			36	36	36	36	36	72				

Other values	1 mV to 2.2 mV *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* *300 kHz to 500 kHz* *500 kHz to 1 MHz*	 1.8 mV/V + 2.1 µV 700 µV/V + 2.3 µV 400 µV/V + 2.3 µV 800 µV/V + 3.0 µV 1.2 mV/V + 3.5 µV 2.5 mV/V + 5.0 µV 2.5 mV/V + 10 µV 3.5 mV/V + 10 µV	Using AC/DC transfer techniques. Unless otherwise stated below, both measurement and generation of these values may be undertaken.

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION (continued)			
AC VOLTAGE (continued)			
Other values (continued)	2.2 mV to 7 mV		Using AC/DC transfer techniques. Unless otherwise stated below, both measurement and generation of these values may be undertaken.
	10 Hz to 20 Hz	600 µV/V + 4.8 µV	
	20 Hz to 40 Hz	400 µV/V + 2.0µV	
	40 Hz to 20 kHz	220 µV/V + 2.2 µV	
	20 kHz to 50 kHz	400 µV/V + 3.0 µV	
	50 kHz to 100 kHz	630 µV/V + 3.5 µV	
	100 kHz to 300 kHz	1.4 mV/V + 5.0 µV	
	300 kHz to 500 kHz	1.5 mV/V + 10 µV	
	500 kHz to 1 MHz	2.6 mV/V + 10 µV	
	7 mV to 22 mV		
	10 Hz to 20 Hz	330 µV/V + 2.0 µ V	
	20 Hz to 40 Hz	220 µV/V + 2.0 µ V	
	40 Hz to 20 kHz	120 µV/V + 2.2 µV	
	20 kHz to 50 kHz	230 µV/V + 2.9 µ V	
	50 kHz to 100 kHz	350 µV/V + 3.3 µ V	
	100 kHz to 300 kHz	940 µV/V + 4.5 µ V	
	300 kHz to 500 kHz	1.0 mV/V + 10 µV	
	500 kHz to 1 MHz	12 mV/V + 10 µV	
	22 mV to 70 mV		
	10 Hz to 20 Hz	290 µV/V + 1.8 µ V	
	20 Hz to 40 Hz	150 µV/V + 1.8 µ V	
	40 Hz to 20 kHz	70 µV/V + 2.3 µV	
	20 kHz to 50 kHz	150 µV/V + 2.6 µV	
	50 kHz to 100 kHz	300 µV/V + 3.1 µV	
	100 kHz to 300 kHz	580 µV/V + 5.4 µV	
	300 kHz to 500 kHz	780 µV/V + 9.0 µV	
	500 kHz to 1 MHz	1.3 mV/V + 9.0 µV	
	70 mV to 220 mV		
	10 Hz to 20 Hz	240 µV/V + 2.2 µ V	
	20 Hz to 40 Hz	95 µV/V + 2.2 µ V	
	40 Hz to 20 kHz	45 µV/V + 2.2 µ V	
	20 kHz to 50 kHz	80 µV/V + 2.5 µ V	
	50 kHz to 100 kHz	190 µV/V + 3.3 µV	
	100 kHz to 300 kHz	290 µV/V + 5.3 µV	
	300 kHz to 500 kHz	470 µV/V + 8.0 µV	
	500 kHz to 1 MHz	1.2 mV/V + 10 µV	
	220 mV to 700 mV		
	10 Hz to 20 Hz	240 µV/V + 2.2 µV	
	20 Hz to 40 Hz	87 µV/V + 2.2 µV	
	40 Hz to 20 kHz	38 µV/V + 1.7 µV	
	20 kHz to 50 kHz	59 µV/V + 3.1 µV	
	50 kHz to 100 kHz	90 µV/V + 4.0 µV	
	100 kHz to 300 kHz	210 µV/V + 4.0 µV	
	300 kHz to 500 kHz	340 µV/V + 12 µV	
	500 kHz to 1 MHz	1.1 mV/V + 6.0 µV	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION (continued)			
AC VOLTAGE (continued)			
Other values (continued)	700 mV to 2.2 V		Using AC/DC transfer techniques. Unless otherwise stated below, both measurement and generation of these values may be undertaken.
	10 Hz to 20 Hz	230 µV/V + 4.0 µV	
	20 Hz to 40 Hz	78 µV/V	
	40 Hz to 20 kHz	28 µV/V + 0.40 µV	
	20 kHz to 50 kHz	55 µV/V	
	50 kHz to 100 kHz	83 µV/V	
	100 kHz to 300 kHz	190 µV/V + 3.0 µV	
	300 kHz to 500 kHz	300 µV/V	
	500 kHz to 1 MHz	1.1 mV/V	
	2.2 V to 7 V		
	10 Hz to 20 Hz	230 µV/V + 4.0 µV	
	20 Hz to 40 Hz	77 µV/V + 6.0 µV	
	40 Hz to 20 kHz	28 µV/V + 4.0 µV	
	20 kHz to 50 kHz	55 µV/V + 5.0 µV	
	50 kHz to 100 kHz	94 µV/V + 3.0 µV	
	100 kHz to 300 kHz	220 µV/V + 7.0 µV	
	300 kHz to 500 kHz	460 µV/V	
	500 kHz to 1 MHz	1.4 mV/V	
	7 V to 22 V		Generation of these values is subject to a maximum frequency limitation of 300 kHz.
	10 Hz to 20 Hz	230 µV/V + 40 µV	
	20 Hz to 40 Hz	77 µV/V + 6.0 µV	
	40 Hz to 20 kHz	28 µV/V + 4.0 µV	
	20 kHz to 50 kHz	55 µV/V + 5.0 µV	
	50 kHz to 100 kHz	96 µV/V	
	100 kHz to 300 kHz	220 µV/V	
	300 kHz to 500 kHz	460 µV/V	
	500 kHz to 1 MHz	1.4 mV/V	
	22 V to 70 V		
	10 Hz to 20 Hz	230 µV/V	
	20 Hz to 40 Hz	78 µV/V	
	40 Hz to 20 kHz	31 µV/V + 38 µV	
	20 kHz to 50 kHz	56 µV/V	
	50 kHz to 100 kHz	96 µV/V	
	70 V to 220 V		
	10 Hz to 20 Hz	230 µV/V	
	20 Hz to 40 Hz	78 µV/V	
	40 Hz to 20 kHz	36 µV/V	
	20 kHz to 50 kHz	82 µV/V	
	50 kHz to 100 kHz	120 µV/V	
	220 V to 700 V		Generation of these values is limited to the frequency range 40 Hz to 20 kHz.
	10 Hz to 20 Hz	230 µV/V	
	20 Hz to 40 Hz	120 µV/V	
	40 Hz to 20 kHz	50 µV/V	
	20 kHz to 50 kHz	160 µV/V	
	50 kHz to 100 kHz	560 µV/V + 7.0 mV	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION (continued)			
AC VOLTAGE (continued)			
Other values (continued)	700 V to 1000 V		Using AC/DC transfer techniques. Generation of these values is limited to the frequency range 40 Hz to 20 kHz; measurements can be conducted over the full range.
	10 Hz to 20 Hz	200 µV/V + 20 mV	
	20 Hz to 40 Hz	100 µV/V + 10 mV	
	40 Hz to 20 kHz	45 µV/V	
	20 kHz to 50 kHz	140 µV/V + 16 mV	
	50 kHz to 100 kHz	580 µV/V	
AC High Voltage	*At 50 Hz:*		
	1 kV to 5 kV	0.45 % + 5.0 V	Calibrations performed using HV divider and digital multimeter. Measurement of these values can be performed over the full range; generation is limited to a maximum of 20 kV.
	5 kV to 25 kV	0.80 % + 10 V	
AC CURRENT	25 µA to 100 µA		Measurement and generation of AC Current using voltage and resistance method.
	40 Hz to 1 kHz	50 µA/A	
	100 µA to 1 mA		
	10 Hz to 23 Hz	250 µA/A + 10 nA	
	23 Hz to 40 Hz	140 µA/A + 10 nA	
	40 Hz to 1 kHz	50 µA/A + 10 nA	
	1 kHz to 10 kHz	50 µA/A + 10 nA	
	10 kHz to 30 kHz	520 µA/A + 10 nA	
	1 mA to 10 mA		
	10 Hz to 23 Hz	310 µA/A	
	23 Hz to 40 Hz	100 µA/A	
	40 Hz to 1 kHz	60 µA/A	
	1 kHz to 10 kHz	60 µA/A	
	10 kHz to 30 kHz	550 µA/A	
	10 mA to 20 mA		
	10 Hz to 23 Hz	260 µA/A	
	23 Hz to 40 Hz	100 µA/A	
	40 Hz to 1 kHz	60 µA/A	
	1 kHz to 10 kHz	60 µA/A	
	10 kHz to 30 kHz	550 µA/A	
	20 mA to 50 mA		
	10 Hz to 23 Hz	260 µA/A	
	23 Hz to 40 Hz	100 µA/A	
	40 Hz to 1 kHz	60 µA/A	
	1 kHz to 10 kHz	60 µA/A	
	10 kHz to 30 kHz	480 µA/A	
	50 mA to 100 mA		
	10 Hz to 23 Hz	260 µA/A	
	23 Hz to 40 Hz	100 µA/A	
	40 Hz to 1 kHz	50 µA/A	
	1 kHz to 10 kHz	50 µA/A	
	10 kHz to 30 kHz	75 µA/A	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION (continued)			
AC CURRENT (continued)	100 mA to 200 mA		Measurement and generation of AC Current using voltage and resistance method.
	10 Hz to 23 Hz	260 µA/A	
	23 Hz to 40 Hz	110 µA/A	
	40 Hz to 1 kHz	50 µA/A	
	1 kHz to 10 kHz	50 µA/A	
	10 kHz to 30 kHz	75 µA/A	
	200 mA to 500 mA		
	10 Hz to 23 Hz	260 µA/A	
	23 Hz to 40 Hz	115 µA/A	
	40 Hz to 1 kHz	55 µA/A	
	1 kHz to 10 kHz	55 µA/A	
	10 kHz to 30 kHz	85 µA/A	
	500 mA to 1 A		
	10 Hz to 23 Hz	260 µA/A	
	23 Hz to 40 Hz	115 µA/A	
	40 Hz to 1 kHz	55 µA/A	
	1 kHz to 10 kHz	55 µA/A	
	10 kHz to 30 kHz	85 µA/A	
	1 A to 2 A		
	10 Hz to 23 Hz	270 µA/A	
	23 Hz to 40 Hz	130 µA/A	
	40 Hz to 1 kHz	55 µA/A	
	1 kHz to 10 kHz	60 µA/A	
	10 kHz to 30 kHz	95 µA/A	
	2 A to 10 A		
	10 Hz to 23 Hz	270 µA/A	
	23 Hz to 40 Hz	140 µA/A	
	40 Hz to 1 kHz	65 µA/A	
	1 kHz to 10 kHz	65 µA/A	
	10 A to 30 A		
	10 Hz to 23 Hz	245 µA/A	
	23 Hz to 40 Hz	120 µA/A	
	40 Hz to 1 kHz	80 µA/A	
	1 kHz to 10 kHz	80 µA/A	
AC Current simulation	*40 Hz to 400 Hz*		Generation only. For the calibration of clamp-on ammeters and similar devices using a multi-turn coil technique.
	10 A to 1500 A	0.25 % + 1.3 A	
AC LOOP IMPEDANCE	*At 50 Hz:*		Nominal impedance values for the calibration of earth loop testers.
	0.2 Ω to 0.6 Ω	22 mΩ	
	0.6 Ω to 1.6 Ω	24 mΩ	
	5.5 Ω to 100 Ω	42 mΩ	
	1 kΩ	5.8 Ω	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION (continued)			
INDUCTANCE			
Specific Values	*1 kHz*		
	10 µH	17 nH	Generation using inductors of known value; measurement of inductance using LCR meter. Specific values are those that fall within 1 % of the stated values.
	100 µH	29 nH	
	1 mH	330 nH	
	10 mH	3.2 µH	
	100 mH	29 µH	
	1 H	270 µH	
Other Values	10 µH to 100 µH	0.81 %	Measurement using LCR meter. Generation of values within this range, in a 1-2-5 sequence, may also be uncdertaken by comparison with the LCR meter
	100 µH to 1 mH	0.49 %	
	1 mH to 10 mH	0.34 % + 1.0 µH	
	10 mH to 100 mH	0.31 % + 10 µH	
	100 mH to 1H	0.30 % + 100 µH	
CAPACITANCE			
Specific Values, Three-terminal configuration	*1 kHz*		Generation using capacitors of known value; measurement of capacitance using capacitance bridge. Specific values are those that fall within 1 % of the stated values.
	10 pF	0.38 fF	
	100 pF	7.1 fF	
	1 nF	63 fF	
Specific Values Two- and three-terminal configurations	*1 kHz*		
	10 nF	1.3 pF	
	100 nF	12 pF	
	1 µF	130 pF	
Specific Values Four Terminal Configuration	*100 Hz, 120 Hz*		Generation using capacitance multiplier standard; measurement of capacitance using LCR meter. Specific values are those that fall within 1 % of the stated values.
	10 µF	32 nF	
	100 µF	320 nF	
	1 mF	3.4 uF	
	10 mF	110 uF	
	1 kHz		
	10 uF	34 nF	
	100 uF	340 nF	
	1 mF	3.9 uF	
Other Values	*10 Hz to 99 Hz*		Measurement using LCR meter. Generation of values within this range may also be uncdertaken by comparison with the LCR meter. Value and Frequency combinations are limited
	1 nF to 10 nF	0.78 %	
	10 nF to 10 mF	0.31 %	
	100 Hz to 999 Hz		
	1 nF to 10 nF	0.4 % + 1 pF	
	10 nF to 100 µF	640 µF/F	
	100 µF to 1 mF	0.34 %	
	1 mF to 10 mF	0.78 %	
	1 kHz		
	10 µF	0.050 % + 0.20 pF	
	100 µF	0.12 %	
	1 mF	0.36 %	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION (continued)			
FREQUENCY			Using GPS receiver, synthesisers and frequency counter.
Reference value	10 MHz	2.2 in 10^{10}	The 10 MHz claim is for an average frequency over a 10 minute period. Uncertainties will be increased for shorter periods.
Other values	10 mHz to 1 GHz	2.4 in 10^{8}	Values within this range may also be reported as average periodic time (1/*f*) for electronically triggered repetitive events.
TIME INTERVAL	20 ms to 900 ms	390 µs	For the calibration of RCD testers
PHASE ANGLE			Measurement via Phase Meter, Generation using monitored multiproduct calibrator
Voltage : Current	*40 Hz to 1 kHz* -180° to +180°	 20 m°	Voltage range 1 V to 1000 V Current range 1 mA to 30 A
Voltage : Voltage	*40 Hz to 1 kHz* -180° to +180°	 20 m°	
AC Power	*40 Hz to 400 Hz* Cos φ = 1 Cos φ = 0.5 Lead to 0.5 lag Cos φ = .025 lead to 0.25 lag	 0.13 % 0.25 % 1.2 %	Measurment using precision power meter, generation using monitored multiproduct calibrator
TEMPERATURE INDICATORS AND SIMULATORS			
Reference junction measurements	Ambient 18 °C to 30 °C	0.12 °C	Using calibrated PRT sensor and meter.
Thermocouple type			By electrical simulation, including reference junction compensation
K	-200 °C to -100 °C -100 °C to -25 °C -25 °C to +120 °C 120 °C to 1000 °C 1000 °C to 1370 °C	0.41 °C 0.31 °C 0.29 °C 0.35 °C 0.40 °C	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION (continued)			
TEMPERATURE INDICATORS AND SIMULATORS (continued)			
Thermocouple type			By electrical simulation, including reference junction compensation.
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	0.37 °C 0.28 °C 0.30 °C 0.30 °C 0.34 °C	
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	0.56 °C 0.35 °C 0.32 °C 0.31 °C 0.38 °C	
R	0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1760 °C	1.0 °C 0.65 °C 0.72 °C	
S	0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1700 °C	0.99 °C 0.62 °C 0.68 °C	
T	-250 °C to -150 °C -150 °C to 0 °C 0 °C to 120 °C 120 °C to 400 °C	0.74 °C 0.28 °C 0.28 °C 0.29 °C	
B	600 °C to 800 °C 800 °C to 1000 °C 1000 °C to 1550 °C 1550 °C to 1820 °C	2.0 °C 2.0 °C 1.9 °C 1.9 °C	
E	-250 °C to -100 °C -100 °C to -25 °C -25 °C to +350 °C 350 °C to 1000 °C	0.63 °C 0.28 °C 0.29 °C 0.31 °C	
L	-200 °C to -100 °C -100 °C to +800 °C 800 °C to 900 °C	0.47 °C 0.43 °C 0.44 °C	
U	-200 °C to 0 °C 0 °C to 600 °C	0.55 °C 0.43 °C	
C	0 °C to 150 °C 150 °C to 650 °C 650 °C to 1000 °C 1000 °C to 1800 °C 1800 °C to 2316 °C	0.44 °C 0.40 °C 0.45 °C 0.60 °C 0.83 °C	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
ELECTRICAL CALIBRATION (continued)			
TEMPERATURE INDICATORS AND SIMULATORS (continued)			
Thermocouple type			By electrical simulation, excluding reference junction compensation.
K	-270 °C to -200 °C -200 °C to +1372 °C	0.66 °C 0.050 °C	
J	-210 °C to +1200 °C	0.050 °C	
N	-270 °C to -200 °C -200 °C to +1300 °C	0.16 °C 0.080 °C	
R	0 °C to 1760 °C	0.12 °C	
S	0 °C to 1760 °C	0.12 °C	
T	-250 °C to -200 °C -200 °C to +400 °C	0.17 °C 0.050 °C	
B	600 °C to 1820 °C	0.11 °C	
E	-270 °C to -200 °C -200 °C to +1000 °C	0.32 °C 0.040 °C	
L	-200 °C to +900 °C	0.040 °C	
U	-200 °C to +600 °C	0.050 °C	
C	0 °C to 2316 °C	0.060 °C	
Resistance Thermometer PT 100	-100 °C to +800 °C	0.020 °C	By comparison with equivalent DC resistance values.
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: $Q[a, b] = [a^2 + b^2]^{1/2}$