


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0783</b> Accredited to ISO/IEC 17025:2017	<b>Construction Testing Solutions Limited</b> <b>Trading as Calibration Testing Solutions</b>	
	Issue No: 024 Issue date: 28 March 2022	
	<b>M1 Commerce Park</b> <b>Markham Lane</b> <b>Duckmanton</b> <b>Chesterfield</b> <b>S44 5HS</b>	<b>Contact: Luke Todd</b> <b>Tel: +44 (0)1246 828318</b> <b>Fax: +44 (0)1246 828319</b> <b>E-Mail: luke.todd@calibrationtesting.co.uk</b>
<b>Calibration performed by the Organisation at the locations specified</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> M1 Commerce Park Markham Lane Duckmanton Chesterfield S44 5HS	Electrical	P
<b>Local contact</b> Luke Todd	Dimensional	P
	Mass Weighing machines (non-automatic)	P

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customers' sites or premises  The customer's sites or premises must be suitable for the nature of the particular calibrations undertaken and will be subject of contract review arrangements between the laboratory and the customer	MASS Weighing machines (non-automatic)	S



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>ELECTRICAL MEASUREMENTS</b>				
DC VOLTAGE				P
Measurement	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	4.5 $\mu$ V/V + 0.47 $\mu$ V 3.3 $\mu$ V/V 3.2 $\mu$ V/V 4.8 $\mu$ V/V 4.9 $\mu$ V/V	Using digital multimeter with 10 M $\Omega$ input resistance.	
	10 V to 100 V 100 V to 1000 V	12 $\mu$ V/V 31 $\mu$ V/V	Using digital multimeter with 1 M $\Omega$ input resistance.	
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	70 $\mu$ V/V + 4.0 $\mu$ V 58 $\mu$ V/V + 6.0 $\mu$ V 58 $\mu$ V/V + 60 $\mu$ V 67 $\mu$ V/V 65 $\mu$ V/V	Using multifunction calibrator	
DC CURRENT				P
Measurement	0 $\mu$ A to 10 $\mu$ A 10 $\mu$ A to 100 $\mu$ A 100 $\mu$ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 20 A 10 A to 30 A	33 $\mu$ A/A + 20 nA 17 $\mu$ A/A 16 $\mu$ A/A 21 $\mu$ A/A 78 $\mu$ A/A 270 $\mu$ A/A 290 $\mu$ A/A 810 $\mu$ A/A	Using digital multimeter	
Generation	0 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 2.2 A 2.2 A to 11 A	150 $\mu$ A/A + 60 nA 120 $\mu$ A/A + 0.40 $\mu$ A 120 $\mu$ A/A + 5.0 $\mu$ A 350 $\mu$ A/A + 60 $\mu$ A 700 $\mu$ A/A + 0.46 mA	Using multifunction calibrator	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>ELECTRICAL MEASUREMENTS</b> (continued)				
DC RESISTANCE				P
Measurement	0 $\Omega$ to 1 $\Omega$ 1 $\Omega$ to 10 $\Omega$ 10 $\Omega$ to 100 $\Omega$ 100 $\Omega$ to 1 k $\Omega$ 1 k $\Omega$ to 10 k $\Omega$ 10 k $\Omega$ to 100 k $\Omega$ 100 k $\Omega$ to 1 M $\Omega$ 1 M $\Omega$ to 10 M $\Omega$ 10 M $\Omega$ to 100 M $\Omega$ 100 M $\Omega$ to 1 G $\Omega$	12 $\mu\Omega/\Omega$ + 26 $\mu\Omega$ 14 $\mu\Omega/\Omega$ 11 $\mu\Omega/\Omega$ 11 $\mu\Omega/\Omega$ 11 $\mu\Omega/\Omega$ 12 $\mu\Omega/\Omega$ 14 $\mu\Omega/\Omega$ 34 $\mu\Omega/\Omega$ 250 $\mu\Omega/\Omega$ 0.27 %	Using digital multimeter	
	0 M $\Omega$ to 10 M $\Omega$ 10 M $\Omega$ to 100 M $\Omega$ 100 M $\Omega$ to 1 G $\Omega$ 1 G $\Omega$ to 10 G $\Omega$	20 $\mu\Omega/\Omega$ + 15 $\Omega$ 92 $\mu\Omega/\Omega$ 380 $\mu\Omega/\Omega$ 0.27 %	At 200 V At 200 V At 200 V At 200 V	
Generation				
Specific Values				
Decade Values	1 m $\Omega$ 10 m $\Omega$ 100 m $\Omega$ 1 $\Omega$ 10 M $\Omega$ 100 M $\Omega$ 1 G $\Omega$ 10 G $\Omega$	75 $\mu\Omega/\Omega$ 59 $\mu\Omega/\Omega$ 63 $\mu\Omega/\Omega$ 63 $\mu\Omega/\Omega$ 1.2 % 1.3 % 2.6 % 1.0 %	Known resistance values for application to resistance measuring instruments  At 100 V, 500 V and 1000 V At 100 V, 500 V and 1000 V At 100 V, 500 V and 1000 V At 100 V and 500 V	
Decade and non-decade values	10 M $\Omega$ 20 M $\Omega$ 30 M $\Omega$ 40 M $\Omega$ 50 M $\Omega$ 60 M $\Omega$ 70 M $\Omega$ 80 M $\Omega$ 90 M $\Omega$ 100 M $\Omega$ 110 M $\Omega$	23 $\mu\Omega/\Omega$ 46 $\mu\Omega/\Omega$ 69 $\mu\Omega/\Omega$ 92 $\mu\Omega/\Omega$ 120 $\mu\Omega/\Omega$ 140 $\mu\Omega/\Omega$ 160 $\mu\Omega/\Omega$ 190 $\mu\Omega/\Omega$ 210 $\mu\Omega/\Omega$ 230 $\mu\Omega/\Omega$ 250 $\mu\Omega/\Omega$	Known resistance values for application to resistance measuring instruments	
Other values	1 $\Omega$ to 10 $\Omega$ 10 $\Omega$ to 100 $\Omega$ 100 $\Omega$ to 1 k $\Omega$ 1 k $\Omega$ to 10 k $\Omega$ 10 k $\Omega$ to 100 k $\Omega$ 100 k $\Omega$ to 1 M $\Omega$	580 $\mu\Omega/\Omega$ 120 $\mu\Omega/\Omega$ 120 $\mu\Omega/\Omega$ 120 $\mu\Omega/\Omega$ 120 $\mu\Omega/\Omega$ 150 $\mu\Omega/\Omega$	Known resistance values for application to resistance measuring instruments	



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<b>ELECTRICAL MEASUREMENTS</b> (continued)				
AC VOLTAGE				P
Measurement	10 mV to 100 mV 10 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	150 $\mu$ V/V 270 $\mu$ V/V 620 $\mu$ V/V 0.25 % 1.3 %	Using digital multimeter	
	100 mV to 1 V 10 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	140 $\mu$ V/V 270 $\mu$ V/V 620 $\mu$ V/V 0.25 % 1.2 %		
	1 V to 10 V 10 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	140 $\mu$ V/V 270 $\mu$ V/V 620 $\mu$ V/V 0.25 % 1.2 %		
	10 V to 100 V 20 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	130 $\mu$ V/V 270 $\mu$ V/V 680 $\mu$ V/V		
Generation	100 V to 1000 V 40 Hz to 10 kHz 10 kHz to 30 kHz	130 $\mu$ V/V 270 $\mu$ V/V		
	1 mV to 330 mV 45 Hz to 10 kHz 10 kHz to 50 kHz	0.10 % 0.21 %	Using multifunction calibrator	
	330 mV to 3.3 V 45 Hz to 10 kHz 10 kHz to 50 kHz	0.036 % 0.039 %		
	3.3 V to 33 V 45 Hz to 10 kHz 10 kHz to 50 kHz	0.046 % 0.22 %		
	33 V to 330 V 45 Hz to 20 kHz	0.10 %		
	330 V to 1100 V 45 Hz to 1 kHz 1 kHz to 20 kHz	0.058 % 0.23 %		



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<b>ELECTRICAL MEASUREMENTS</b> (continued)				
AC CURRENT				P
Measurement	1 $\mu$ A to 10 $\mu$ A 10 Hz to 10 kHz	0.24 % + 4.0 nA	Using digital multimeter	
	10 $\mu$ A to 100 $\mu$ A 10 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz	340 $\mu$ A/A 620 $\mu$ A/A 870 $\mu$ A/A		
	100 $\mu$ A to 1 mA 10 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz	330 $\mu$ A/A 620 $\mu$ A/A 860 $\mu$ A/A		
	1 mA to 10 mA 10 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz	330 $\mu$ A/A 620 $\mu$ A/A 860 $\mu$ A/A		
	10 mA to 100 mA 10 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz	330 $\mu$ A/A 610 $\mu$ A/A 860 $\mu$ A/A		
	100 mA to 1 A 10 Hz to 2 kHz 2 kHz to 10 kHz	370 $\mu$ A/A 650 $\mu$ A/A		
	1 A to 10 A 10 Hz to 10 kHz	980 $\mu$ A/A		
	10 A to 30 A 10 Hz to 1 kHz	0.11 %		
Generation	30 $\mu$ A to 3.3 mA 10 Hz to 5 kHz	0.23 %	Using multifunction calibrator	
	3.3 mA to 33 mA 10 Hz to 5 kHz	0.23 %		
	33 mA to 330 mA 10 Hz to 5 kHz	0.23 %		
	330 mA to 2.2 A 10 Hz to 1 kHz 1 kHz to 5 kHz	0.23 % 0.87 %		
	2.2 A to 11 A 45 Hz to 500 Hz 500 Hz to 1 kHz	0.12 % 0.38 %		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>ELECTRICAL TEMPERATURE SIMULATION</b>				P
Temperature Indicators and Simulators (t/c Types) calibration by Electrical Simulation				
Base Metal Thermocouples	Type K -200°C to -100°C	0.40 °C	Including Cold Junction Compensation	
	Type K -100°C to -25°C	0.24 °C		
	Type K -25°C to +120°C	0.22 °C		
	Type K 120°C to 1000°C	0.32 °C		
	Type K 1000°C to 1372°C	0.48 °C		
	Type J -210°C to -100°C	0.33 °C	Including Cold Junction Compensation	
	Type J -100°C to -30°C	0.22 °C		
	Type J -30°C to +150°C	0.20 °C		
	Type J 150°C to 760°C	0.23 °C		
	Type J 760°C to 1200°C	0.29 °C		
	Type N -200°C to -100°C	0.14 °C	Including Cold Junction Compensation	
	Type N -100°C to -25°C	0.12 °C		
	Type N -25°C to +120°C	0.11 °C		
	Type N 120°C to 410°C	0.11 °C		
	Type N 410°C to 1300°C	0.11 °C		
Type T -250°C to -150°C	0.74 °C	Including Cold Junction Compensation		
Type T -150°C to 0°C	0.30 °C			
Type T 0°C to 120°C	0.22 °C			
Type T 120°C to 400°C	0.20 °C			
Nobel Metal Thermocouples	Type B 600°C to 800°C	0.59 °C	Including Cold Junction Compensation	
	Type B 800°C to 1000°C	0.23 °C		
	Type B 1000°C to 1550°C	0.21 °C		
	Type B 1550°C to 1820°C	0.22 °C		
	Type R 0°C to 250°C	0.68 °C	Including Cold Junction Compensation	
	Type R 250°C to 400°C	0.42 °C		
	Type R 400°C to 1000°C	0.40 °C		
	Type R 1000°C to 1767°C	0.48 °C		
	Type S 0°C to 250°C	0.56 °C	Including Cold Junction Compensation	
	Type S 250°C to 1000°C	0.44 °C		
	Type S 1000°C to 1400°C	0.44 °C		
	Type S 1400°C to 1767°C	0.55 °C		
	Type E -250°C to -100°C	0.59 °C	Including Cold Junction Compensation	
	Type E -100°C to -25°C	0.22 °C		
	Type E -25°C to +350°C	0.20 °C		
Type E 350°C to 650°C	0.22 °C			
Type E 650°C to 1000°C	0.70 °C			



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<b>ELECTRICAL TEMPERATURE SIMULATION</b> (continued)				P
Cold Junction Compensation	At ambient temperature of 21 °C ± 3 °C	0.20 °C		
Temperature Indicators and Simulators (PT100 Types) calibration by Electrical Simulation				
PT 100 Indicators	-200°C to 0°C 0°C to 100°C 100°C to 300°C 300°C to 400°C 400°C to 630°C 630°C to 800°C	0.077 °C 0.095 °C 0.12 °C 0.13 °C 0.15 °C 0.27 °C		
PT 100 Simulators	-200 °C to 0 °C 0 °C to 560 °C 560 °C to 850 °C	0.053 °C 0.050 °C 0.072 °C		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
<b>DIMENSIONAL MEASUREMENTS</b>				
NOTES In addition to these items, other similar items, including parts of measuring instruments and machines, may be calibrated in accordance with the stated best measurement uncertainty capability. Where the item or part calibrated is of lower quality due to wear, errors in geometry or form, or poor surface texture, or where any other factor adversely affects the measurement capability, greater uncertainties may be quoted.  All linear calibrations may be given in inch units.				
LENGTH				P
Plain plug gauges (parallel)	1 to 50 diameter 50 to 100 diameter 100 to 200 diameter	1.0 on diameter 1.0 on diameter 1.5 on diameter	Comparison to end standards using a length measuring machine	
Plain ring gauges (parallel)	1 to 10 diameter 10 to 50 diameter 50 to 100 diameter 100 to 200 diameter	2.0 on diameter 2.0 on diameter 2.0 on diameter 2.4 on diameter	Comparison to master setting rings using a length measuring machine	
Length gauge, flat and spherical ended (excluding length bars)	0 to 1200	1.0 + (8.0 x length in m)	Comparison to end standards	
Plain gap gauges (parallel)	2 to 100 100 to 200 200 to 300	3.0 5.0 8.0	BS 969:2008 Comparison to end standards	
Feeler gauges	0.020 to 1	2.0	BS 957:2008 Comparison to end standards using a length measuring machine	
Paint thickness settingfoils	0.020 to 1	2.0	Comparison to end standards using a length measuring machine	
Parallels	up to 5 to 50 x 100 x 400	Dependent on size and grade From 2.0 to 5.0	BS 906:Part 1:1972 Comparison to datum surfaces and end standards	
Rule – steel	0 to 1000 1000 to 2000	5.0 + (50 x length in m) 10 + (50 x length in m)	BS 4372:1968 Using a length measuring machine with microscope	





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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
<b>DIMENSIONAL MEASUREMENTS</b> (continued)				P
Thread measuring cylinders	0.1 to 5	0.5	As BS 3777, BS 5590 and specials. Comparison to end standards using a length measuring machine	
Screw plug gauges (parallel) including check and setting plugs	1 to 100 diameter 100 to 200 diameter	3.0 5.0	Single start symmetrical thread gauges only Comparison to cylindrical setting standards and thread measuring cylinders using a length measuring machine	
Screw ring gauges (parallel)	3 to 100 diameter 100 to 150 diameter	4.0 6.0	Single start symmetrical thread gauges only Comparison to master setting ring using a length measuring machine and T-shape ball probe method	
Screw pitch	0.2 to 8	1.5	Using a length measuring machine and pitch attachment	
Screw flank angle	0° to 52°	5.0 minutes of arc	Mechanical and optical comparison	
<b>ANGLE</b>  NOTE The best measurement uncertainty capabilities are for the departure from flatness, straightness, or squareness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration.				P
Squares Blade type	50 to 300 300 to 600	3.0 On squareness 5.0 On squareness	BS 939:2007 Comparison to cylindrical square and datum surfaces	



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
<b>DIMENSIONAL MEASUREMENTS</b> (continued)				
MEASURING INSTRUMENTS AND MACHINES				
Micrometers			Comparison to end standards and optical parallels	P
External	0 to 1000	Heads 2.0 between any two points	As BS 870:2008 (and above)	
Internal	0 to 900		As BS 959:2008	
Depth	0 to 300	Setting and extension rods 1.0 + (8.0 x length in m)	As BS 6468:2008	
Vernier, dial and digital gauges			Comparison to end standards	
Calliper	0 to 1200	Overall performance 10 + (30 x length in m)	BS 887:2008 (and above)	
Height	0 to 1000	Overall performance 10 + (30 x length in m)	BS 1643:2008	
Depth	0 to 600	Overall performance 10 + (30 x length in m)	BS 6365:2008	
Dial gauges and dial test indicators	0 to 50	1.0	BS 907:2008 and BS 2795:1981 Comparison to length measuring machine and end standards	
Electronic indicators				
Lever type	0 to 5	1.0	Comparison to length measuring machine and end standards	
Linear type	0 to 50	0.7	Comparison to length measuring machine and end standards	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>MASS</b>  NON-AUTOMATIC WEIGHING MACHINES Digital	200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 50 kg 100 kg	0.031 mg 0.038 mg 0.046 mg 0.061 mg 0.077 mg 0.09 mg 0.12 mg 0.16 mg 0.27 mg 0.54 mg 1.4 mg 2.7 mg 3.8 mg 9.6 mg 19.0 mg 39.0 mg 3.8 g 7.7 g	Note 1 Weights are available in OIML class:  E2 1 mg to 2 kg. max grouped load 2 kg.  F1 1 kg to 5 kg. Max grouped load 24 kg.  M1 5 kg to 10 kg. Max grouped load 100 kg  Note 2. Other loads within the overall listed range may also be used.  Note 3. Method based on the requirements of Euramet guide cg-18	P & S
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$