


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0318</b> Accredited to ISO/IEC 17025:2017	<b>CoMech Metrology Ltd</b>	
	Issue No: 048    Issue date: 10 July 2024	
	1 Pride Park View, Victoria Way, Pride Park, Derby DE24 8AN	Contact: Mr K Pallett Tel: +44 (0)1332 867 700 E-Mail: sales@comech.co.uk Website: www.comech.co.uk
Calibration performed by the Organisation at the locations specified		

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

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Metrology Division Calibration House Castings Road Derby DE23 8YL	<b>Local contact</b>  <a href="#">Dimensional Torque</a>	A
<b>Address</b> 1 Pride Park View, Victoria Way, Pride Park, Derby DE24 8AN	<b>Local contact</b>  <a href="#">Electrical Humidity Pressure Temperature</a>	B

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

Location details	Activity	Location code
The location 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	<a href="#">Electrical Pressure Temperature</a>	C



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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 UNDERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
DIMENSIONAL				
Micrometers External	BS 870:2008, 0 to 600 Traverse of micrometer screw Flatness of anvils Parallelism of anvils Alignment (Zero) Setting, 0 to 25 (Zero) Setting, 25 to 600	2.6 1.0 1.5 4.3 1.0 1.0 + (8.0 x length in m)		A
Internal	BS 959:2008, 0 to 600 Traverse of micrometer screw (Zero Setting) and Extension Rods	2.8 1.0 + (5.0 x length in m)		
Depth	BS 6468:2008, 0 to 300 Traverse of micrometer screw Flatness Parallelism Squareness of rods Axis of rotation of rods (Zero Setting) and Extension rods	4.8 1.0 2.3 7.7 7.7 1.0 + (5 x length in m)		
Vernier gauges (inc. digital and dial) Caliper	BS 887:2008 0 to 600 Linear error Flatness Parallelism Squareness Coplanar of jaws	10 + (30 x length in m) 1.0 1.3 8.4 8.3		A
Height	BS 1643:2008, 0 600 Linear error Flatness of measuring jaws Size of measuring jaw Flatness of base Parallelism of jaw to base	10 + (30 x length in m) 0.40 3.2 1.1 1.6		
Depth	BS 6365:2008, 0 to 300 Linear error Flatness and parallelism	10 + (30 x length in m) 4.0		
Dial gauges and dial test indicators	0 to 50 BS 907:2008 and BS 2795:1981	3.6		A
Surface texture of Gauges (excluding surface texture standards)	As BS 1134:Part 1:1988	7.0 % (minimum 1.0 $\mu\text{m Ra}$ )		A



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
DIMENSIONAL (cont'd)				
Length gauges, flat and spherical ended (excluding length bars)	25 to 1200 Length Parallelism	1.0 + (5.0 x length in m) 1.0	Using a length measuring Machine or by comparison with End standards	A
Plain plug gauges parallel	0 to 100	2.1	Using a length measuring machine	A
Receiver and position gauges, jigs, fixtures	Track Grinding Gauges (HB221) 0 to 1440	29	Procedure CM-C-686	A
	Autocoupler Pin Checking Gauges (HB035) 0 to 1.0	3.0	Procedure CM-C-706	
	Brake Pad Wear Gauge (HB100) 0 to 10.0	2.7	Procedure CM-C-705	
	Back to Back Gauges (HB018) 0 to 1360	9.3	Procedure CM-C-704	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>PRESSURE</b>				
<u>Gas pressure (gauge)</u> Calibration of pressure measuring instruments and gauges.	- 95 kPa to 0 Pa 0 Pa to 2 MPa	Q [0.0067 %, 250 Pa] Q [0.0067 %, 90 Pa]	Methods consistent with EURAMET CG17	B
<u>Gas pressure (absolute)</u> Calibration of pressure measuring instruments and gauges.	- 95 kPa to 2 MPa 2 MPa to 10 MPa	Q [0.0067 %, 250 Pa] Q [0.0067 %, 3.8 kPa]		B, C
<u>Hydraulic pressure (gauge)</u> Calibration of pressure measuring instruments and gauges.	70 kPa to 2 MPa	Q [0.0067 %, 90 Pa]		B
<b>TORQUE</b>				
Hand torque tools (excluding torque screwdrivers)	As BS EN ISO 6789 :2017 0.7 N·m to 1500 N·m	0.031 % 0.030 %	Calibrations may also be given in lbf.in and lbf.ft.	B
<b>ELECTRICAL</b>				A
				B



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Electrical values and uncertainties listed below are applicable for the calibration of both measurement instruments and for instruments with an output. The method used is by direct comparison against laboratory standards unless otherwise stated in the remark's column.				
DC Voltage	0 mV to 100 mV	7.5 $\mu$ V/V + 420 nV	These output values can be measured	B
	100 mV to 1 V	2.9 $\mu$ V/V + 1.5 $\mu$ V		
	1 V to 10 V	2.9 $\mu$ V/V + 14 $\mu$ V		
DC Voltage	10 V to 100 V	4.3 $\mu$ V/V + 340 $\mu$ V	Values available for direct measurement	C
	100 V to 1.1 kV	4.4 $\mu$ V/V + 10 mV		
	0 V to 90 mV	0.012 % + 12 $\mu$ V		
High Voltage	90 mV to 20 V	0.013 % + 2.3 mV	These output values can be measured.	B
	0 V to 100 mV	0.012 % + 12 $\mu$ V		
	90 mV to 20 V	0.013 % + 2.3 mV		
DC Current	1 kV to 40 kV	0.70 % + 15 V	Values available for direct measurement	B
	0 $\mu$ A to 10 $\mu$ A	540 pA		
	10 $\mu$ A to 100 $\mu$ A	870 pA		
	100 $\mu$ A to 1 mA	9.2 $\mu$ A/A + 10 nA		
	1 mA to 10 mA	14 $\mu$ A/A + 70 nA		
	10 mA to 100 mA	57 $\mu$ A/A + 1.6 $\mu$ A		
	100 mA to 1 A	130 $\mu$ A/A + 100 $\mu$ A		
1 A to 10 A	230 $\mu$ A/A + 580 nA			
DC Current	10 A to 20 A	0.020 % + 4.9 mA	These output values can be measured	C
	1 A to 2 A	82 $\mu$ A/A + 370 $\mu$ A		
	2 A to 20 A	76 $\mu$ A/A + 9.8 mA		
	20 A to 120 A	50 $\mu$ A/A		
DC Current	0 A to 24 mA	0.031 % + 2.3 $\mu$ A	Output values above 10 A – simulation Using a multiturn coil	B
	0 A to 24 mA	0.031 % + 3.4 $\mu$ A		
	1 A to 10.5 A	0.074 % + 1.2 mA		
	10.5 A to 20 A	0.45 % + 26 mA		
	20 A to 105 A	0.075 % + 12 mA		
	105 A to 525 A	0.075 % + 60 mA		
	525 A to 1000 A	0.50 % + 1.3 A		
1000 A to 2500 A	0.069 % + 520 mA			



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
ELECTRICAL continued				
Resistance	0 $\Omega$ 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 100 M $\Omega$ 10 M $\Omega$ to 100 M $\Omega$ 100 M $\Omega$ to 1.1 G $\Omega$ 1 G $\Omega$ to 10 G $\Omega$	17 $\mu\Omega/\Omega + 10$ n $\Omega$ 9.0 $\mu\Omega/\Omega + 50$ n $\Omega$ 9.0 $\mu\Omega/\Omega + 220$ n $\Omega$ 9.0 $\mu\Omega/\Omega + 25$ $\mu\Omega$ 9.0 $\mu\Omega/\Omega + 890$ $\mu\Omega$ 9.0 $\mu\Omega/\Omega + 10$ $\Omega$ 12 $\mu\Omega/\Omega + 15$ k $\Omega$ 39 $\mu\Omega/\Omega + 110$ k $\Omega$ 650 $\mu\Omega/\Omega + 120$ M $\Omega$ 1300 $\mu\Omega/\Omega + 210$ M $\Omega$		B
AC Voltage	1 mV to 100 mV 10 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz  100 mV to 1 V 10 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 50 kHz  1 V to 10 V 10 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 50 kHz  10 V to 100 V 10 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 50 kHz	88 $\mu\text{V}/\text{V} + 10$ $\mu\text{V}$ 230 $\mu\text{V}/\text{V} + 8.2$ $\mu\text{V}$ 530 $\mu\text{V}/\text{V} + 3.7$ $\mu\text{V}$  76 $\mu\text{V}/\text{V} + 28$ $\mu\text{V}$ 230 $\mu\text{V}/\text{V} + 64$ $\mu\text{V}$ 530 $\mu\text{V}/\text{V} + 140$ $\mu\text{V}$  76 $\mu\text{V}/\text{V} + 560$ $\mu\text{V}$ 76 $\mu\text{V}/\text{V} + 430$ $\mu\text{V}$ 230 $\mu\text{V}/\text{V} + 1.5$ V  250 $\mu\text{V}/\text{V} + 2.6$ mV 250 $\mu\text{V}/\text{V} + 17$ mV 590 $\mu\text{V}/\text{V} + 25$ mV		B
High Voltage	100 V to 1050 V 10 Hz to 1 kHz 1 kV to 40 kV 50 Hz to 60 Hz	250 $\mu\text{V}/\text{V} + 25$ mV  1.5 % + 45 V	These output values can be measured.	B
AC Current	1 $\mu\text{A}$ to 100 $\mu\text{A}$ 40 Hz to 1 kHz  100 $\mu\text{A}$ to 1 mA 40 Hz to 1 kHz  1 mA to 10 mA 40 Hz to 1 kHz  10 mA to 100 mA 40 Hz to 1 kHz	0.0010 % + 7.6 nA  0.030 % + 90 nA  0.030 % + 1.1 $\mu\text{A}$  0.030 % + 2.5 $\mu\text{A}$		B



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code	
AC Current (continued)	100 mA to 1 A <i>40 Hz to 1 kHz</i>	0.030 % + 4.6 $\mu$ A	Values available for direct measurement	B	
	10 A to 20 A <i>40 Hz to 1 kHz</i>	0.20 % + 4.9 mA			
	1 A to 3.2 A <i>10 Hz to 3 kHz 3 kHz to 10 kHz</i>	0.12 % + 560 $\mu$ A 0.13 % + 3.0 mA			
	3.2 A to 10.5 A <i>10 Hz to 3 kHz 3 kHz to 10 kHz</i>	0.23 % + 4.4 mA 0.58 % + 12 mA			
	10.5 A to 120 A <i>50 Hz 51 Hz to 100 Hz</i>	0.36 % + 140 mA 0.58 % + 110 mA			Simulation using a Multiturn coil
	10.5 A to 105 A <i>10 Hz to 400 Hz</i>	0.28 % + 44 mA			
	105 A to 525 A <i>10 Hz to 400 Hz</i>	0.28 % + 220 mA			
	500 A to 1000 A <i>50 Hz 51 Hz to 100 Hz</i>	0.043 % + 130 mA 0.043 % + 310 mA			
Capacitance 1 kHz	0.1 nF to 1 nF	0.18 % + 10 pF	Simulated values for the calibration of capacitance meters.	B	
	1 nF to 10 nF	0.080 % + 4.6 pF			
	10 nF to 100 nF	0.049 % + 58 pF			
	100 nF to 1 $\mu$ F	0.041 % + 140 pF			
	1 $\mu$ F to 10 $\mu$ F	0.042 % + 2.5 nF			
	10 $\mu$ F to 100 $\mu$ F	0.061 % + 28 nF			
	100 $\mu$ F to 1 mF	0.062 % + 0.31 $\mu$ F			
	1 mF to 10 mF	0.071 % + 3.3 $\mu$ F			
Oscilloscopes	Vertical deflection <i>At 1 kHz</i> 10 mV to 100 mV 100 mV to 120 V	0.040 % + 27 $\mu$ V 0.050 %		B	
					Horizontal deflection 2 ns to 5 s
Tachometers	0 RPM to 6 000 RPM 6000 RPM to 60 000 RPM	0.10 RPM 1.0 RPM		B	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>17<sup>th</sup> Edition capability</b>				
Insulation Resistance	10 k $\Omega$ to 40 k $\Omega$ 40 k $\Omega$ to 200 k $\Omega$ 200 k $\Omega$ to 10 M $\Omega$ 10 M $\Omega$ to 1 G $\Omega$ 1 G $\Omega$ to 2 G $\Omega$	0.020 % + 15 $\Omega$ 0.025 % + 15 $\Omega$ 0.050 % + 590 $\Omega$ 0.22 % + 120 k $\Omega$ 0.52 % + 120 k $\Omega$		B
Insulation Resistance: test current	0 mA to 9.9 mA	76 $\mu$ A		
Continuity resistance	100 m $\Omega$ to 400 m $\Omega$ 400 m $\Omega$ to 5 $\Omega$ 5 $\Omega$ to 30 $\Omega$ 30 $\Omega$ to 200 $\Omega$ 200 $\Omega$ to 2 k $\Omega$ 2 k $\Omega$ to 10 k $\Omega$	1.0 % + 1.5 m $\Omega$ 0.80 % + 8.3 m $\Omega$ 0.12 % 0.11 % 0.11 % 0.17 %		B
Continuity resistance current	50 mA to 400 mA	21 %		B
Voltage Output	3 V to 600 V 3 V 50 Hz to 600 V 50 Hz	0.15 % 0.18 %		
Voltage measurement	180 mV to 1 kV 130 mV 50 Hz to 1 kV 50 Hz	0.060 % + 180 mV 0.10 % + 130 mV		B
High Voltage 50 Hz	1 kV to 7 kV 10 kV to 25 kV	0.25 % + 24 V 0.25 % + 120 V		B
High Voltage DC	1 kV to 10 kV 10 kV to 25 kV	0.060 % + 40 V 0.060 % + 120 V		B
High Voltage Current 50 Hz	300 $\mu$ A 3 mA 30 mA 300 mA	0.36 % + 3.4 $\mu$ A 0.24 % + 8.5 $\mu$ A 0.58 % + 27 $\mu$ A 0.23 % + 180 $\mu$ A		B
High Voltage Current DC	300 $\mu$ A 3 mA 30 mA 300 mA	0.36 % + 3.4 $\mu$ A 0.24 % + 8.5 $\mu$ A 0.58 % + 25 $\mu$ A 0.23 % + 180 $\mu$ A		B
Loop impedance 50 Hz	10 m $\Omega$ to 90 m $\Omega$ 90 m $\Omega$ to 320 m $\Omega$ 320 m $\Omega$ to 490 m $\Omega$ 490 m $\Omega$ to 1 $\Omega$ 1 $\Omega$ to 5 $\Omega$ 5 $\Omega$ to 500 $\Omega$ 500 $\Omega$ to 1.8 k $\Omega$	3.7 % + 18 m $\Omega$ 1.8 % + 18 m $\Omega$ 0.90 % + 23 m $\Omega$ 0.60 % + 24 m $\Omega$ 0.30 % + 43 m $\Omega$ 0.10 % + 200 m $\Omega$ 0.10 % + 24 $\Omega$		B
RCD Trip Current 50 Hz	1 mA to 30 mA 30 mA to 300 mA 300 mA to 3 A	0.20 % + 38 $\mu$ A 0.20 % + 1.4 mA 0.20 % + 11 mA		B
RCD Trip time	0 ms to 5 s	0.10 % + 4.7 ms		B





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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>17<sup>th</sup> Edition capability</b>				
PAT Insulation resistance	10 k $\Omega$ to 40 k $\Omega$ 40 k $\Omega$ to 200 k $\Omega$ 200 k $\Omega$ to 10 M $\Omega$ 10 M $\Omega$ to 1 G $\Omega$ 1 G $\Omega$ to 2 G $\Omega$	0.020 % + 15 $\Omega$ 0.025 % + 15 $\Omega$ 0.050 % + 590 $\Omega$ 0.22 % + 120 k $\Omega$ 0.52 % + 120 k $\Omega$		B
Earth Bond resistance	0 $\Omega$ to 10 $\Omega$ 10 $\Omega$ to 1 k $\Omega$	0.30 % + 40 m $\Omega$ 0.11 % + 200 m $\Omega$		B
Earth bond current	100 $\mu$ A to 100 mA 100 mA to 20 A	4.0 mA 0.53 % + 32 mA		B
Leakage current	1 $\mu$ A to 30 mA	0.52 % + 20 $\mu$ A		B
<b>Temperature simulation</b> Thermocouple type				B
K	-180 $^{\circ}$ C to 0 $^{\circ}$ C  0 $^{\circ}$ C to 1300 $^{\circ}$ C	0.16 $^{\circ}$ C  0.14 $^{\circ}$ C	Excluding internal reference junction compensation	B
J	-200 $^{\circ}$ C to 0 $^{\circ}$ C 0 $^{\circ}$ C to 1190 $^{\circ}$ C	0.15 $^{\circ}$ C 0.13 $^{\circ}$ C		
K	-180 $^{\circ}$ C to 0 $^{\circ}$ C  0 $^{\circ}$ C to 1300 $^{\circ}$ C	0.64 $^{\circ}$ C  0.63 $^{\circ}$ C	Including internal reference junction compensation	B
J	-200 $^{\circ}$ C to 0 $^{\circ}$ C 0 $^{\circ}$ C to 1190 $^{\circ}$ C	0.63 $^{\circ}$ C 0.63 $^{\circ}$ C		
Resistance thermometer simulation				
PT 100	-200 $^{\circ}$ C to 0 $^{\circ}$ C 0 $^{\circ}$ C to 850 $^{\circ}$ C	0.21 $^{\circ}$ C 0.21 $^{\circ}$ C		
K	-200 $^{\circ}$ C to 0 $^{\circ}$ C 0 $^{\circ}$ C to 1000 $^{\circ}$ C 1000 $^{\circ}$ C to 1362 $^{\circ}$ C	0.46 $^{\circ}$ C 0.23 $^{\circ}$ C 0.24 $^{\circ}$ C	Excluding internal reference junction compensation	C
J	-210 $^{\circ}$ C to 0 $^{\circ}$ C 0 $^{\circ}$ C to 800 $^{\circ}$ C 800 $^{\circ}$ C to 1200 $^{\circ}$ C	0.46 $^{\circ}$ C 0.30 $^{\circ}$ C 0.38 $^{\circ}$ C		
K	-200 $^{\circ}$ C to 0 $^{\circ}$ C 0 $^{\circ}$ C to 1000 $^{\circ}$ C 1000 $^{\circ}$ C to 1362 $^{\circ}$ C	0.77 $^{\circ}$ C 0.68 $^{\circ}$ C 0.65 $^{\circ}$ C	Including internal reference junction compensation	C
J	-210 $^{\circ}$ C to 0 $^{\circ}$ C 0 $^{\circ}$ C to 800 $^{\circ}$ C 800 $^{\circ}$ C to 1200 $^{\circ}$ C	0.89 $^{\circ}$ C 0.78 $^{\circ}$ C 0.82 $^{\circ}$ C		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
TEMPERATURE				
Electronic thermometers with indicators and data-loggers	-25 °C to +28 °C +28 °C to +350 °C	0.48 °C 0.43 °C	By comparison with a reference thermometer in a dry block calibrator.	B & C
	5 °C to 50 °C	0.19 °C	Performed in air using a portable chamber	B
Temperature controlled ovens, environmental chambers, fridges/refrigerators, freezers (inclusive of associated indicators, controllers and recorders, all with sensors, within the specified parameters and ranges)	-25 °C to 0°C 0 °C to +250 °C	0.60 °C 0.40 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping.	C
HUMIDITY				
Relative Humidity	10 %rh to 95 %rh Performed at 25 °C	2.0 %rh 0.19 °C	By comparison with a reference hygrometer.	B

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