Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



CoMech Metrology Ltd

Issue No: 050 Issue date: 07 November 2025

Contact: Mr K Pallett

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Accredited to ISO/IEC 17025:2017

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
Address Metrology Division Calibration House Castings Road Derby DE23 8YL	Dimensional Torque	A
Address 1 Riverside Court Pride Park Derby DE24 8JN	Humidity Pressure Temperature Electrical	В

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	Electrical Pressure Temperature	S

Assessment Manager: PC Page 1 of 11



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 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	4.8 1.0 2.3 7.7 7.7 1.0 + (5 x length in m)		
Vernier gauges (inc. digital and dial)	rods			Α
Caliper	BS 887:2008 0 to 600 Linear error Flatness Parallelism Squareness Coplanar of jaws	10 + (30 x length in m) 1.8 2.0 14 8.3		
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	BS 907:2008 and BS 2795:1981 0 to 50 Scale interval	3.6		A
	measurements Discrimination	1.8		

Assessment Manager: PC Page 2 of 11



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
DIMENSIONAL (continued)				
Surface texture of Gauges (excluding surface texture standards)	As BS 1134:Part 1:1988	7.0 % (minimum 1.0 μm Ra)		А
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	1.9	Using a length measuring machine	А
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	4.8	Procedure CM-C-705	
	Back to Back Gauges (HB018) 0 to 1360	9.3	Procedure CM-C-704	

Assessment Manager: PC Page 3 of 11



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
PRESSURE			Methods consistent	В
Gas pressure (gauge) Calibration of pressure measuring instruments and gauges.	- 95 kPa to 0 Pa 0 Pa to 20 kPa 20 k Pa to 2 MPa 2 MPa to 10 MPa	Q [0.0067 %, 250 Pa] Q [0.10 %, 5.4 Pa] Q [0.0067 %, 170 Pa] 2.2 kPa	with EURAMET CG17	В
	- 95 kPa to 2 MPa	1.2 kPa		S
Gas pressure (absolute) Calibration of pressure measuring instruments and gauges.	70 kPa to 2 MPa	Q [0.0067 %, 170 Pa]		В
Hydraulic pressure (gauge) Calibration of pressure measuring instruments and gauges.	500 kPa to 5.5 MPa 5 MPa to 110 MPa	0.018 % 0.024 %		В
TORQUE				
Hand torque tools (excluding torque screwdrivers)	As BS EN ISO 6789 :2017 0.7 N·m to 1500 N·m	0.30 %	Calibrations may also be given in lbf.in and lbf.ft.	А

Assessment Manager: PC Page 4 of 11



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code		
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.						
ELECTRICAL						
DC Voltage	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1.1 kV	7.5 μ V/V + 420 nV 2.9 μ V/V + 1.5 μ V 2.9 μ V/V + 14 μ V 4.3 μ V/V + 340 μ V 4.4 μ V/V + 10 mV	These output values	В		
	0 V to 90 mV 90 mV to 20 V	0.012 % + 12 μV 0.013 % + 2.3 mV	can be measured	3		
	0 V to 100 mV 90 mV to 20 V	0.012 % + 12 μV 0.013 % + 2.3 mV	Values available for direct measurement	s		
High Voltage	1 kV to 40 kV	0.70 % + 15 V	These output values can be measured.	В		
DC Current	0 μA to 10 μA 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 1 A to 10 A 10 A to 20 A	540 pA 870 pA 9.2 μA/A + 10 nA 14 μA/A + 70 n A 57 μA/A + 1.6 μA 130 μA/A + 100 μA 230 μA/A + 580 nA 0.020 % + 4.9 mA		В		
	1 A to 2 A 2 A to 20 A 20 A to 120 A	82 μA/A + 370 μA 76 μA/A + 9.8 mA 50 μA/A	Values available for direct measurement	В		
	0 A to 24 mA 0 A to 24 mA	0.031 % + 2.3 μA 0.031 % + 3.4 μA	These output values can be measured Values available for	S		
DC Current	1 A to 10.5 A 10.5 A to 20 A 20 A to 105 A 105 A to 525 A 525 A to 1000 A 1000 A to 2500 A	0.074 % + 1.2 mA 0.45 % + 26 mA 0.075 % + 12 mA 0.075 % + 60 mA 0.50 % + 1.3 A 0.069 % + 520 mA	direct measurement Output values above 10 A – simulation Using a multiturn coil	B		

Assessment Manager: PC Page 5 of 11



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks	Location Code
ELECTRICAL (continued)				
Resistance	0 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 100 M Ω 10 M Ω to 100 M Ω 100 M Ω to 1.1 G Ω 1 G Ω to 10 G Ω	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 Ω 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 $M\Omega$		В
AC Voltage	1 mV to 100 mV 10 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	88 μV/V + 10 μV 230 μV/V + 8.2 μV 530 μV/V + 3.7 μV		В
	100 mV to 1 V 10 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 50 kHz	76 μV/V + 28 μV 230 μV/V + 64 μV 530 μV/V + 140 μV		
	1 V to 10 V 10 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 50 kHz	76 μV/V + 560 μV 76 μV/V + 430 μV 230 μV/V + 1.5 V		
	10 V to 100 V 10 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 50 kHz	250 μV/V + 2.6 mV 250 μV/V + 17 mV 590 μV/V + 25 mV		
	100 V to 1050 V 10 Hz to 1 kHz	250 μV/V + 25 mV		
High Voltage	1 kV to 40 kV 50 Hz to 60 Hz	1.5 % + 45 V	These output values can be measured.	В
AC Current	1 μA to 100 μA 40 Hz to 1 kHz	0.0010 % + 7.6 nA		В
	100 μA to 1 mA 40 Hz to 1 kHz	0.030 % + 90 nA		
	1 mA to 10 mA 40 Hz to 1 kHz	0.030 % + 1.1 μA		
	10 mA to 100 mA 40 Hz to 1 kHz	0.030 % + 2.5 μA		

Assessment Manager: PC Page 6 of 11



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks	Location Code
AC Current (continued)	100 mA to 1 A 40 Hz to 1 kHz	0.030 % + 4.6 µA		В
	10 A to 20 A 40 Hz to 1 kHz	0.20 % + 4.9 mA		
	1 A to 3.2 A 10 Hz to 3 kHz 3 kHz to 10 kHz	0.12 % + 560 μA 0.13 % + 3.0 mA	Values available for direct measurement	
	3.2 A to 10.5 A 10 Hz to 3 kHz 3 kHz to 10 kHz	0.23 % + 4.4 mA 0.58 % + 12 mA		
	10.5 A to 120 A 50 Hz 51 Hz to 100 Hz	0.36 % + 140 mA 0.58 % + 110 mA	Simulation using a Multiturn coil	
	10.5 A to 105 A 10 Hz to 400 Hz	0.28 % + 44 mA		
	105 A to 525 A 10 Hz to 400 Hz	0.28 % + 220 mA		
	500 A to 1000 A 50 Hz 51 Hz to 100 Hz	0.043 % + 130 mA 0.043 % + 310 mA		
	1000 A to 2500 A 50 Hz to 100 Hz	0.043 % + 1.3 A		
Capacitance 1 kHz	0.1 nF to 1 nF 1 nF to 10 nF 10 nF to 100 nF 100 nF to 1 μF 1 μF to 10 μF 10 μF to 100 μF 100 μF to 1 mF 1 mF to 10 mF 10 mF to 100 mF	0.18 % + 10 pF 0.080 % + 4.6 pF 0.049 % + 58 pF 0.041 % + 140 pF 0.042 % + 2.5 nF 0.061 % + 28 nF 0.062 % + 0.31 µF 0.071 % + 3.3 µF 0.071 % + 3.3 µF	Simulated values for the calibration of capacitance meters.	В
Oscilloscopes	TO THE TO TOO THE	0.071 76 + 3.3 μΓ		
Vertical deflection	At 1 kHz 10 mV to 100 mV 100 mV to 120 V	0.040 % + 27 μV 0.050 %		В
Horizontal deflection	2 ns to 5 s	0.12 %		
Tachometers	0 RPM to 6 000 RPM 6000 RPM to 60 000 RPM	0.10 RPM 1.0 RPM		В

Assessment Manager: PC Page 7 of 11



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

Assessment Manager: PC Page 8 of 11



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

Assessment Manager: PC Page 9 of 11



0318

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks	Location Code
TEMPERATURE Electronic thermometers with	-25 °C to +28 °C	0.48 °C	By comparison with a reference thermometer in a dry block calibrator.	B&S
indicators and data-loggers	+28 °C to +350 °C 5 °C to 50 °C	0.43 °C 0.19 °C	Performed in air using a portable chamber	В
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.	S
HUMIDITY				
Relative Humidity	10 %rh to 95 %rh Performed at 25 °C	2.0 %rh 0.19 °C	By comparison with a reference hygrometer.	В
END				

Assessment Manager: PC Page 10 of 11



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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 nonrepeatability) 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] = $[a^2 + b^2]^{1/2}$

Assessment Manager: PC Page 11 of 11