Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Unit 2, The Green Hawks Green Lane	Local contact Mr Andrew Bilbrough	Electrical / Pressure / Temperature	Lab
Cannock WS11 7LG	Tel: +44 (0)1543 509020 Email: andrew.bilbrough@moorcroft.io		

Site activities performed away from the locations listed above:

Location details	Activity	Location code
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.	Electrical / Pressure / Temperature	Site

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	Moorcroft Controls Limited
22138 Accredited to ISO/IEC 17025:2017	Issue No: 007 Issue date: 20 February 2025
	Calibration performed by the Organisation at the locations specified

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks	Location Code
Calibrations are performed as a direct comparison against a reference standard unless otherwise stated.				
ELECTRICAL				
DC Resistance	$\begin{array}{l} 0 \ \Omega \ \text{to} \ 400 \ \Omega \\ 100 \ \Omega \ \text{to} \ 400 \ \Omega \\ 400 \ \Omega \ \text{to} \ 4000 \ \Omega \end{array}$	0.040 Ω 0.10 Ω 1.2 Ω		Site and Lab
DC Voltage Measurement	0 mV to 50 mV 50 mV to 1 V 1V to 10 V	0.05 mV 0.15 mV 1.5 mV		Site and Lab
Generation	0 mV to 100 mV 100 mV to 1 V 1V to 10 V	0.20 mV 0.35 mV 1.5 mV		Site and Lab
DC Current Measurement	4 mA to 20 mA	0.01 mA		Site and Lab
Generation	4 mA to 20 mA	0.01 mA		
Temperature by Electrical Simula Temperature calibrators, simulators controllers and transmitters, calibrat	tion , indicators, recorders, ion by electrical simulation			
Base metal thermocouple (J, K, T & N) Simulation and Measurement	-50 °C to +1300 °C	0.54 °C	including cold junction compensation	Site and Lab
Noble metal thermocouple (R & S type) Simulation and Measurement	0 °C to 1700 °C	0.88 °C	including cold junction compensation	Site and Lab
Pt 100 Simulation and Measurement	-190 °C to 0 °C 0 °C to 750 °C	0.15 °C 0.30 °C	3 and 4 wire measurement	Site and Lab
Pt 1000 Simulation and Measurement	-200 °C to 0 °C 0 °C to 830 °C	0.10 °C 0.38 °C	3 and 4 wire measurement	Site and Lab

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	Calibration performed by the C	organisation at the locations sp	ecified		
Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (<i>k</i> = 2)	Remarks	Location Code	
Calibrations are per	formed as a direct compariso	n against a reference standar	d unless otherwise stated		
PRESSURE			Methods consistent with EURAMET CG17		
Gas Pressure (Gauge)					
Calibration of pressure indicating instruments and gauges.	-95 kPa to -1 kPa -1 kPa to 1 kPa 1 kPa to 2 MPa	1.8 kPa 4.2 Pa 1.8 kPa	Comparison with gauge pressure reference	Site and Lab	
Hydraulic Pressure (Gauge)					
Calibration of pressure indicating instruments and gauges	0 MPa to 6 MPa 6 MPa to 60 MPa	11 kPa 45 kPa	Comparison with gauge pressure reference		
Gas Pressure (Absolute)					
Calibration of pressure indicating instruments and Gauges.	80 kPa to 120 kPa	0.10 kPa	Direct comparison with barometer standard	Site and Lab	
	5 kPa to 99 kPa 99 kPa to 101 kPa 101 kPa to 2.1 MPa	1.8 kPa 0.12 kPa 1.8 kPa	Comparison with gauge pressure reference summed with barometer		
Hydraulic Pressure (Absolute)					
calibration of pressure indicating instruments and gauges.	6.1 MPa to 60.1 MPa	11 kPa 45 kPa	comparison with gauge pressure reference summed with barometer		
TEMPERATURE					
Temperature controlled chambers, ovens, environmental cabinets, refrigerators and freezers	-80 °C to 200 °C 200 °C to 400 °C 400 °C to 1000 °C 1000 °C to 1250 °C	0.99 °C 1.3 °C 1.4 °C 1.6 °C	Single point calibration of control temperature probe and associated display.	Site and Lab	
	-196 °C to 0 °C 0 °C to 1300 °C	3.3 ℃ 3.1 ℃	Multipoint monitoring probes. Time dependent temperature profiling, also referred to as spatial temperature surveying or mapping		
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: $Q[a, b] = [a^2 + b^2]^{1/2}$