


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>UKAS</b> CALIBRATION <b>0705</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>CP Instruments Ltd</b> <b>Trading as Control Point</b>  Issue No: 025 Issue date: 05 March 2025	
	<b>6 Lawson Close</b> <b>Aldridge</b> <b>West Midlands</b> <b>WS9 0RX</b>	<b>Contact: Mr Martin Hutchinson</b> <b>Tel: +44 (0)1922 441798</b> <b>E-Mail: enquiries@control-point.co.uk</b>
<b>Calibration performed by the Organisations at the locations specified below</b>		

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

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> 6 Lawson Close Aldridge West Midlands WS9 0RX	<b>Local contact</b> Mr Martin Hutchinson  Tel: +44 (0)1922 441798 Email: enquiries@control-point.co.uk	Electrical Temperature	Lab

#### 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 Temperature	Site



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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</b>				
DC Resistance	0 $\Omega$ to 400 $\Omega$ 400 $\Omega$ to 1 k $\Omega$	0.017 $\Omega$ 0.066 $\Omega$	Measured using digital multimeter. The capability includes generation and measurement of these quantities.	Lab
DC Voltage	0 mV to 30 mV 30 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 50 V	1.6 $\mu$ V 5.7 $\mu$ V 20 $\mu$ V 0.12 mV 1.8 mV		Lab
DC Current	0 mA to 20 mA	1.14 $\mu$ A		Lab
Temperature calibrators, simulators, indicators, recorders, controllers and transmitters, calibration by electrical simulation			Using millivolt injection or measurement	
Base metal thermocouple	-200 $^{\circ}$ C to 0 $^{\circ}$ C 0 $^{\circ}$ C to 1370 $^{\circ}$ C	0.20 $^{\circ}$ C 0.25 $^{\circ}$ C	excluding cold junction compensation	Lab
Noble metal thermocouple (R & S type)	0 $^{\circ}$ C to +100 $^{\circ}$ C 100 $^{\circ}$ C to 1760 $^{\circ}$ C	0.35 $^{\circ}$ C 0.26 $^{\circ}$ C	excluding cold junction compensation	Lab
Noble metal thermocouple (B type)	300 $^{\circ}$ C to 600 $^{\circ}$ C 600 $^{\circ}$ C to 1820 $^{\circ}$ C	0.43 $^{\circ}$ C 0.30 $^{\circ}$ C	excluding cold junction compensation	Lab
Pt 100	-200 $^{\circ}$ C to +800 $^{\circ}$ C	0.090 $^{\circ}$ C		Lab
Cold junction compensation	Ambient temperatures 10 $^{\circ}$ C to 35 $^{\circ}$ C	0.20 $^{\circ}$ C		Lab
Base metal thermocouple	-200 $^{\circ}$ C to +1370 $^{\circ}$ C	0.48 $^{\circ}$ C	including cold junction compensation	Site and Lab
Noble metal thermocouple (R & S type)	0 $^{\circ}$ C to +100 $^{\circ}$ C 100 $^{\circ}$ C to 1760 $^{\circ}$ C	0.68 $^{\circ}$ C 0.54 $^{\circ}$ C	including cold junction compensation	Site and Lab
Noble metal thermocouple (B type)	300 $^{\circ}$ C to 600 $^{\circ}$ C 600 $^{\circ}$ C to 1820 $^{\circ}$ C	0.78 $^{\circ}$ C 0.58 $^{\circ}$ C	including cold junction compensation	Site and Lab
Pt 100	-200 $^{\circ}$ C to +800 $^{\circ}$ C	0.29 $^{\circ}$ C		Site and Lab



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
Electrical output	0 V to 10 V 10 V to 50 V 0 mA to 20 mA	1.83 mV 14.2 mV 5.8 $\mu$ A	Measured using digital multimeter. The capability includes generation and measurement of these quantities.	Site and Lab
Current loops	0 mA to 20 mA	5.8 $\mu$ A		Site and Lab
Time Interval Timers	10 s to 24 hrs	0.94 s		Site and Lab
<b>TEMPERATURE</b>				
Temperature controlled ovens and furnaces	50 °C to 650 °C 650 °C to 1230 °C	3.3 °C 4.3 °C	Multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	Site and Lab
Base Metal Thermocouples (Type K, N, J, T)	0 °C 50 °C to 350 °C 350 °C to 450 °C 450 °C to 650 °C	0.80 °C 1.0 °C 1.1 °C 1.5 °C		Ice point Calibration in vertical Dry block bath
	650 °C to 850 °C 850 °C to 1100 °C 1100 °C to 1230 °C	2.1 °C 2.4 °C 3.1 °C	Calibration in horizontal Spherical Furnace	
Noble Metal Thermocouples (Type R & S)	50 °C to 350 °C 350 °C to 650 °C	1.0 °C 1.1 °C	Calibration in vertical Dry block bath	Lab
	650 °C to 850 °C 850 °C to 1100 °C 1100 °C to 1230 °C	1.5 °C 1.7 °C 2.4 °C		Calibration in horizontal Spherical Furnace
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$