

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 22245 Accredited to ISO/IEC 17025:2017	Calcert Instruments Ltd.	
	Issue No: 003 Issue date: 03 January 2025	
	Unit 4A Birch Lane Business Park Aldridge Walsall WS9 0NF	Contact: Mr Roger Palethorpe Tel: +44 (0)1922 744740 Fax: +44 (0)1922 689022 E-Mail: sales@calcertinstruments.co.uk Website: http://www.calcertinstruments.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
Address Calcert Instruments Ltd Unit 4A Birch Lane Business Park Aldridge Walsall WS9 0NF	Local contact Mr Roger Palethorpe	Temperature Electrical Simulation Lab

Site activities performed away from the locations listed above:

Location details	Activity	Location code
The customer's 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 Simulation	Site



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL				
Temperature calibrators, simulators, indicators, recorders and controllers, calibration by electrical simulation			Using millivolt injection or measurement	Lab
Base Metal Thermocouple (Type K, J, T, N)	-20 °C to +1200 °C	0.15 °C	Including cold junction compensation	Lab
Noble Metal Thermocouple (Type R & S)	+200 °C to +1200 °C	0.16 °C	Including cold junction compensation	Lab
Pt 100	-50 °C to +300 °C	0.11 °C		
Temperature indicators, recorders and controllers, calibration by electrical simulation			Using millivolt injection	Site
Base Metal Thermocouple (Type K, J, T, N)	-20 °C to +1200 °C	0.47 °C	Including cold junction compensation	Site
Noble Metal Thermocouple (Type R & S)	+200 °C to +900 °C	0.73 °C	Including cold junction compensation	Site
Pt 100	-50 °C to +300 °C	0.47 °C		Site
TEMPERATURE				
Platinum resistance Thermometers (4 wire)	-15 °C to +100 °C +100 °C to +200 °C	0.61 °C 1.6 °C	Calibration by comparison in a liquid bath or dry block	Lab
Noble Metal Thermocouple (Type R & S)	500 °C to 900 °C	1.7 °C	Calibration by comparison in a dry block or horizontal furnace	Lab
Base Metal Thermocouple (Type K, J, T, N)	0 °C to 500 °C 500 °C to 900 °C	1.2 °C 1.7 °C	Calibration by comparison in a dry block or horizontal furnace	Lab

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