Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

4372

Accredited to ISO/IEC 17025:2017

Intech Calibration Ltd

Issue No: 027 **Issue date:** 07 November 2025

Old Customs House
Wharf Road
Littlehampton
West Sussex
BN17 5DD

Contact: Mr J du Plessis
Tel: +44 (0)1903 772 859
Fax: +44 (0)1903 754 437
E-Mail: sales@intechcalibration.co.uk
Website: www.intechcalibration.co.uk

Calibration performed by the Organisations at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Intech Calibration Ltd. Old Customs House Wharf Road Littlehampton West Sussex BN17 5DD **Local contact** Mr J du Plessis Tel: +44 (0)1903 772 859 Fax: +44 (0) 903 754 437 Email: info@intechcalibration.co.uk Website: www.intechcalibration.co.uk	Temperature, Humidity and Electrical Calibration	Lab

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customer Premises, e.g. Hospitals, Laboratories and Manufacturing & Processing Plants	Temperature, Humidity and Electrical Calibration	Site

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEMPERATURE			Calibration by comparison with reference instruments	
Temperature indicators with sensors	-196 °C -196 °C	0.040 °C 0.080 °C	Liquid Nitrogen	Lab Site
	0 °C	0.030 °C	Ice point	Lab & Site
	-100 °C to +155 °C	0.050 °C	Calibration in metal block bath	Lab & Site
	-40 °C to -30°C -30 °C to 0 °C 0 °C to +100 °C	0.20 °C 0.20 °C 0.12 °C	Calibration in a liquid bath	Lab Lab & Site
	-100 °C to +0 °C 0 °C to 232 °C 232 °C to 420 °C 420 °C to 660 °C	0.15 °C 0.10 °C 0.13 °C 0.17 °C	Calibration in metal block bath	Lab & Site
Temperature calibration in air chamber, for instruments such as dataloggers	-40 °C to 0 °C 0 °C to 22 °C 22 °C to 60 °C 60 °C to 90 °C 90 °C to 100 °C 100 °C to 180 °C	0.36 °C 0.08 °C 0.09 °C 0.13 °C 0.43 °C 1.26 °C		Lab
	0 °C to 22 °C 22 °C to 60 °C	0.17 °C 0.25 °C		Lab & Site
In-situ temperature calibration in air	Ambient temperature	0.70 °C	Uncertainty will depend on stability of the ambient conditions	Site
Temperature controlled fridges, freezers, incubators, ovens and environmental chambers,	-90 °C to +600 °C	1.0 °C	Multiple point measurements	Site
including associated recorders, indicators and controllers. Thermal characterisation of Warehouses, controlled storage facilities & cold rooms over time	-90 °C to +155 °C 155 °C to 600 °C	0.30 °C 0.70 °C	Single point measurement	Site

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
HUMIDITY				
Dew point	-32 °C to +90 °C	0.14 °C	By comparison with a dew-point hygrometer	Lab
Relative humidity	Example conditions		Corresponding to above dew-point and temperature uncertainties.	
	Temperature range 0 °C to 22 °C 5 %rh to 50 %rh 50 %rh to 95 %rh	0.08 °C 0.20 %rh to 0.70 %rh 0.70 %rh to 1.20 %rh	By comparison with dew-point hygrometer and Platinum Resistance Thermometers	Lab
	Temperature range 22 °C to 60 °C 5 %rh to 50 %rh 50 %rh to 95 %rh	0.09 °C 0.20 %rh to 0.50 %rh 0.50 %rh to 0.90 %rh		
	Temperature range 60 °C to 90 °C 5 %rh to 50 %rh 50 %rh to 96 %rh	0.13 °C 0.20 %rh to 0.43 %rh 0.43 %rh to 0.80 %rh		
	Temperature range 0 °C to 22 °C 5 %rh to 50 %rh 50 %rh to 95 %rh	0.19 °C 1.26 %rh to 1.47 %rh 1.47 %rh to 2.05 %rh	By comparison with a reference thermo-hygrometer	Lab
	Temperature range 22 °C to 60 °C 5 %rh to 50 %rh 50 %rh to 95 %rh	0.22 °C 1.26 %rh to 1.97 %rh 1.97 %rh to 2.07 %rh		
	Temperature range 0 °C to 22 °C 5 %rh to 50 %rh 50 %rh to 95 %rh	0.29 °C 1.54 %rh to 1.72 %rh 1.72 %rh to 2.40 %rh	By comparison with a reference thermo-hygrometer	Site
	Temperature range 22 °C to 60 °C 5 %rh to 50 %rh 50 %rh to 95 %rh	0.30 °C 1.54 %rh to 2.65 %rh 2.65 %rh to 2.85 %rh		
Humidity controlled chambers, including associated recorders, indicators and controllers	Temperature range 0 °C to 60 °C 5 %rh to 95 %rh	0.23 °C 2.0 %rh	Single point measurement	Site
	Temperature range 60 °C to 90 °C 5 %rh to 95 %rh	0.32 °C 2.44 %rh		
	Temperature range 0 °C to 90 °C 5 %rh to 95 %rh	0.39 °C 2.95 %rh	Multipoint measurements	
In-situ humidity calibration in air	Ambient humidity	3.0 %rh	Uncertainty will depend on stability of the ambient conditions	Site

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL				
All electrical measurements, including temperature simulation are carried out using the method of direct comparison or transfer to laboratory reference standards unless otherwise determined in the remarks column.				
DC Voltage	0 mV to 25 mV 25 mV to 75 mV 75 mV to 30 V	22 µV 27 µV 13 mV	Measure	Lab & site
	0 mV to 25 mV 25 mV to 75 mV 75 mV to 20 V	18 µV 29 µV 15 mV	Source	
DC Current	0 A to 24 mA	15 µA	Measure and Source	
Resistance	0 Ω to 400 Ω 400 Ω to 4 kΩ	42 mΩ 300 mΩ	Measure 2,3 & 4 wire	
	5 Ω to 400 Ω 400 Ω to 4 kΩ	120 mΩ 400 mΩ	Source 2 wire	
TEMPERATURE MEASUREMENT BY ELECTRICAL SIMULATION				Lab & site
Temperature indicators Thermocouple Type				
K	-200 °C to 1200 °C	0.53 °C	Including reference junction compensation	
N	-0 °C to 1200 °C	0.53 °C		
R	0 °C to 1600 °C	0.76 °C		
T	0 °C to 390 °C	0.35 °C		
J	0 °C to 1000 °C	0.46 °C		
S	0 °C to 1600 °C	0.80 °C		
B	800 °C to 1600 °C	1.4 °C		
E	0 °C to 990 °C	0.72 °C		
PRT Indicators PT100	-200 °C to 500 °C	0.25 °C		
Temperature calibrators				
Thermocouple Type				
K	-200 °C to 1200 °C	0.67 °C	Including reference junction compensation	
N	-0 °C to 1200 °C	0.57 °C		
R	0 °C to 1600 °C	1.3 °C		
T	0 °C to 390 °C	0.38 °C		
J	0 °C to 1000 °C	0.53 °C		
S	0 °C to 1600 °C	1.2 °C		
B	800 °C to 1600 °C	1.0 °C		
E	0 °C to 990 °C	0.75 °C		
PRT Indicators PT 100	-200 °C to 500 °C	0.29 °C		
Internal reference junction calibration	Ambient	0.12 °C		

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