


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0560</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>Don Whitley Scientific Limited</b> <b>Issue No: 023 Issue date: 19 August 2021</b>	
	<b>Victoria Works</b> <b>Victoria Street</b> <b>Bingley</b> <b>West Yorkshire</b> <b>BD16 2NH</b>	<b>Contact: Mr David Boast</b> <b>Tel: +44 (0)1274 595728</b> <b>Fax: +44 (0)1274 531197</b> <b>E-Mail: info@dwscientific.co.uk</b> <b>Website: www.dwscientific.co.uk</b>

**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
Victoria Works Victoria Street Bingley West Yorkshire BD16 2NH	Temperature (Temperature Indicators)	Lab

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customer Premises, eg, Hospitals, Laboratories, and Manufacturing Plants (*including those of DWS)	Temperature (Sterilizers, etc, Thermal Products, and Temperature Indicators)  Non-Automatic weighing machines	Site



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
Temperature controlled autoclaves, media preparators, incubators, sterilizers, ovens, environmental chambers, fridges/refridgerators, freezers and liquid baths (inclusive of associated indicators, controllers and recorders, all with sensors, within the specified parameters and ranges)			A list of individual approved engineers is held by the laboratory	
TEMPERATURE	-80 °C to -40 °C -40 °C to -25 °C -25 °C to +140 °C	0.85 °C 0.75 °C 0.40 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	Site
Temperature indicators with sensors or recorders	-80 °C to -40 °C -40 °C to -25 °C -25 °C to +140 °C	0.85 °C 0.75 °C 0.14 °C	Calibration within a dry block	Lab & Site
TIME INTERVAL				
Timers	10 s to 200 min	0.70 s	Calibration with a reference timer	Site
NON-AUTOMATIC WEIGHING MACHINES	1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g  1 kg 2 kg 5 kg 9 kg	0.07 mg 0.08 mg 0.11 mg 0.13 mg 0.17 mg 0.21 mg 0.36 mg 0.70 mg 1.75 mg  3.50 mg 6.92 mg 18.9 mg 32.9 mg	Weights are available in OIML Class:  F1 from 1 g to 5 kg, max. grouped load 9 kg  Calibration method in line with the requirements of Euramet gauge cg-18	Site
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$