


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0615 Accredited to ISO/IEC 17025:2017	Consolidated Medical Industries Limited Trading as TME Calibration and Testing Issue No: 038 Issue date: 24 June 2024	
	5 Rise Road Sunningdale Ascot Berkshire SL5 0BH	Contact: Mr A Hodgson Tel: +44 (0)1344 627624 Fax: +44 (0)1344 872204 E-Mail: sales@cmihealthcare.co.uk Website: www.cmihealthcare.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 5 Rise Road Sunningdale Ascot Berkshire SL5 0BH	Local contact Mr A Hodgson	Pressure Temperature Time interval	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.		Pressure Temperature Time interval	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				
Temperature sensors with indicators				Lab
Resistance sensors	-40 °C to +200 °C -40 °C to +150 °C	0.030 °C 0.046 °C	By comparison in a liquid bath By comparison in a dry block	
Thermocouple sensors	-40 °C to +50 °C 50 °C to 200 °C	0.10 °C 0.17 °C	By comparison in a liquid bath	
Temperature block calibrators	-40 °C to +150 °C 150 °C to 200 °C	0.046 °C 0.14 °C	Using PRT sensors	
Temperature sensors with indicators				Site
Resistance sensors	-40 °C to +140 °C	0.11 °C	By comparison in a dry block	
Thermocouple sensors	-40 °C to +140 °C	0.18 °C	By comparison in a dry block	
Temperature controlled autoclaves, media preparators, incubators, ovens, environmental chambers, fridges/refrigerators and freezers (inclusive of associated indicators, controllers and recorders)	-40 °C to +200 °C	0.50 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping Calibrations can be carried out as part of the performance and safety tests for sterilizers as prescribed in the following standards: BS 2646:1993:Part 5:Section 3 BS 3970:1990 EN 285:2015	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
PRESSURE <u>Gas pressure gauge</u> Calibration of Pressure indicating instruments and gauges	-96 kPa to 30 kPa 30 kPa to 700 kPa	23 Pa 144 Pa	Methods consistent with EURAMET CG17. By comparison with a digital pressure standard. By comparison with a deadweight tester.	Lab
<u>Gas pressure absolute</u> Calibration of Pressure indicating instruments and gauges	-96 kPa to +100 kPa 100 kPa to 400 kPa 400 kPa to 700 kPa 3.5 kPa to 130 kPa 130 kPa to 800 kPa	340 Pa 400 Pa 580 Pa 20 Pa 144 Pa	By comparison with a digital pressure standard. By comparison with a deadweight tester. By comparison with a deadweight tester.	Site
<u>Gas pressure absolute</u> Calibration of Pressure indicating instruments and gauges	35 kPa to 200 kPa 200 kPa to 500 kPa 35 kPa to 800 kPa	340 Pa 400 Pa 580 Pa	By comparison with a digital pressure standard.	Site
TIME INTERVAL Timers	10 s to 12 hrs	2.0 s		Lab & 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: $Q[a, b] = [a^2 + b^2]^{1/2}$