


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

|  |   |   |
|--|---|---|
| <br><b>0615</b><br><br>Accredited to<br><b>ISO/IEC 17025:2017</b> | <b>Consolidated Medical Industries Limited</b><br><b>Trading as TME Calibration and Testing</b><br><br>Issue No: 034 Issue date: 20 August 2021 |   |
|  | <b>5 Rise Road</b><br><b>Sunningdale</b><br><b>Ascot</b><br><b>Berkshire</b><br><b>SL5 0BH</b>  | <b>Contact: Mr A Hodgson</b><br><b>Tel: +44 (0)1344 627624</b><br><b>Fax: +44 (0)1344 872204</b><br><b>E-Mail: sales@cmihealthcare.co.uk</b><br><b>Website: www.cmihealthcare.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                            |
|---|--------------------------------------|--|
| <b>Address</b><br>5 Rise Road<br>Sunningdale<br>Ascot<br>Berkshire<br>SL5 0BH | <b>Local contact</b><br>Mr A Hodgson | Pressure<br>Temperature<br>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<br>Temperature<br>Time interval | Site          |



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Calibration and Measurement Capability (CMC)

| Measured Quantity<br>Instrument or Gauge   | Range                               | Expanded<br>Measurement<br>Uncertainty ( $k = 2$ ) | Remarks   | Location<br>Code |
|--|-------------------------------------|--|---|------------------|
| TEMPERATURE  |                                     |  |   |                  |
| Temperature sensors with indicators  |                                     |  |   | Lab              |
| Resistance sensors   | -40 °C to +200 °C                   | 0.030 °C   | By comparison in a liquid bath  |                  |
| Thermocouple sensors   | -40 °C to +50 °C<br>50 °C to 200 °C | 0.10 °C<br>0.17 °C                                 | By comparison in a liquid bath  |                  |
| Temperature block calibrators  | -40 °C to +200 °C                   | 0.14 °C  | Using PRT sensors   |                  |
| Temperature sensors with indicators  |                                     |  |   | Site             |
| Resistance sensors   | -40 °C to +50 °C<br>50 °C to 150 °C | 0.16 °C<br>0.29 °C                                 | By comparison in a dry block  |                  |
| Thermocouple sensors   | -40 °C to +150 °C                   | 0.30 °C  | By comparison in a dry block  |                  |
| Temperature controlled autoclaves, media preparators, incubators, ovens, environmental chambers, fridges/refridgerators 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<br><br>Calibrations can be carried out as part of the performance and safety tests for sterilizers as prescribed in the following standards:<br>BS 2646:1993:Part 5:Section 3<br>BS 3970:1990<br>EN 285:2015 |                  |



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| Measured Quantity<br>Instrument or Gauge                  | Range   | Expanded<br>Measurement<br>Uncertainty ( $k = 2$ ) | Remarks  | Location<br>Code |
|---|---|--|--|------------------|
| <b>PRESSURE</b>   |   |  | Methods consistent with EURAMET CG17.                                  |                  |
| <u>Gas pressure gauge</u>                                 |   |  |  |                  |
| Calibration of Pressure indicating instruments and gauges | -96 kPa to 30 kPa<br>30 kPa to 700 kPa                          | 15 Pa<br>140 Pa                                    | By comparison with a digital pressure standard or deadweight tester    | Lab              |
|   | -96 kPa to +100 kPa<br>100 kPa to 400 kPa<br>400 kPa to 700 kPa | 300 Pa<br>380 Pa<br>560 Pa                         | By comparison with a digital pressure standard                         | Site             |
| <u>Gas pressure absolute</u>                              |   |  |  |                  |
| Calibration of Pressure indicating instruments and gauges | 3.5 kPa to 130 kPa<br>130 kPa to 800 kPa                        | 15 Pa<br>140 Pa                                    | By comparison with a digital pressure standard and a deadweight tester | Lab              |
|   | 35 kPa to 200 kPa<br>200 kPa to 500 kPa<br>500 kPa to 800 kPa   | 300 Pa<br>380 Pa<br>560 Pa                         | By comparison with a digital pressure standard                         | Site             |
| <b>TIME INTERVAL</b>                                      |   |  |  |                  |
| 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:  $Q[a, b] = [a^2 + b^2]^{1/2}$