

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0548 Accredited to ISO/IEC 17025:2017	3M UK Plc Issue No: 036 Issue date: 19 August 2021	
	5 Seymour Court Manor Park Runcorn Cheshire WA7 1UZ	Contact: Mr R Norton Tel: +44 (0)1928 532595 Fax: +44 (0)1928 597769 E-Mail: 3mruncorn@mmm.com Website: www.3m.com
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 3M Service Centre 5 Seymour Court Manor Park Runcorn Cheshire WA7 1UZ	Local contact Mr Rick Norton Tel: +44 (0)1928 532595 Fax: +44 (0)1928 597769 Email: 3mruncorn@mmm.com Website: www.3m.com	Electrical Flow Temperature	P

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Customer Premises - Any	Contact as above	Electrical Temperature	S



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL Time interval - Timers	10 s to 60 min	0.19 s	Comparison to a reference timer.	P & S
FLOW Air Flow (Air Samplers)	28.3 l/min	0.85 %	Comparison to a reference flow meter	P
TEMPERATURE Temperature indicators, controllers and recorders all with temperature sensors.	-24 °C to 140 °C	0.15 °C	Comparison within dry media	P & S
Temperature controlled autoclaves, media preparators, chambers, environmental cabinets and ovens and similar apparatus.	0 °C to 150 °C	0.16 °C	Comparison Using PT100	P & S
	0 °C to 140 °C	0.36 °C	Comparison Using Thermocouples	P & S
Calibration of 3M heater blocks	37 °C to 60 °C	0.38 °C	3M digital heater block Method consistent with Euramet CG13	P & S
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: $Q[a, b] = [a^2 + b^2]^{1/2}$