Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0829

Accredited to ISO/IEC 17025:2017

PMT (GB) Ltd

Issue No: 015 **Issue date:** 09 May 2022

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Calibration performed by the Organisation at the locations specified

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Willow End Park Danemoor Malvern Worcestershire WR13 6NN **Local contact** Contact: Mr I Norman Tel: +44 (0)1684 312950	Particle Counter Calibration Microbial Air Sampler Calibration	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	On-Site Particle Counter Calibration On-site Microbial Air Sampler Calibration	Site

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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
PARTICLE COUNTER CALIBRATION (Lab)			Calibration performed using monodisperse spherical particles method	
Particle size analysis				
Threshold determination for spherical particles	Particle sizes			Lab and site
	0.1 μm	3.2 %		
	0.15 μm	2.3 %		
	0.2 μm	2.3 %		
	0.25 μm	1.7 %		
	0.3 μm	2.3 %		
	0.5 μm	2.1 %		
	1.0 μm	1.8 %		
	2.0 μm	1.9 %		
	3.0 μm	2.2 %		
	5.0 μm	1.4 %		
	10 μm	1.7 %		
	25 μm	3.0 %		
Counting efficiency	0.1 μm	5.0 %		Lab and site
	0.15 μm	5.5 %		
	0.2 μm	6.2 %		
	0.3 μm	5.8 %		
	0.5 μm	5.5 %		
	1 μm	4.9 %		
Viewing volume	0.1 μm	5.0 %		
	0.15 μm	5.5 %		Lab and site
	0.2 μm	6.2 %		
	0.3 μm	5.8 %		
	0.5 μm	5.5 %		
	1.0 μm	4.9 %		
Flow rate (gas)	2.8 l/min to 100 l/min	1.3 %	In support of aerosol particle calibration.	Lab and site
CALIBRATION OF MICROBIAL AIR SAMPLERS				Lab and Site
Gas Flow rate	28.3 l/min to 100 l/min	1.3 %	Comparison method with a reference flow meter	
Time	1 minute to 1 hour	0.15 seconds		

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