

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>UKAS</b> CALIBRATION  9735  Accredited to <b>ISO/IEC 17025:2017</b>	<b>Environmental and Technical Services Limited</b>	
	Issue No: 009    Issue date: 18 August 2021	
	<b>Unit 7</b> Millbrook Business Park Hoe Lane Nazeing EN9 2RJ	<b>Contact: Mr Safdar Ayub</b> Tel: +44 (0) 1992 899440 Fax: +44 (0) 1992 899441 E-Mail: safdar.ayub@ets.co.uk Website: www.ets.co.uk
<b>Calibration performed by the Organisation at the locations specified</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Unit 7 Millbrook Business Park Hoe Lane Nazeing EN9 2RJ	<b>Local contact</b> Mr Safdar Ayub Tel: +44 (0) 1992 899440 Fax: +44 (0) 1992 899441 E-Mail: safdar.ayub@ets.co.uk Website: www.ets.co.uk	Temperature Humidity	Lab

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

Location details		Activity	Location code
<b>Customer's sites or premises</b>  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.	<b>Contact</b> Mr Safdar Ayub Tel: +44 (0) 1992 899440 Fax: +44 (0) 1992 899441 E-Mail: safdar.ayub@ets.co.uk Website: www.ets.co.uk	Temperature Humidity	Site



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>Calibration of customer and ETS equipment</b>				
<b>TEMPERATURE</b>  Temperature controlled environmental chambers, ovens, fridges/refrigerators, freezers (inclusive of associated indicators, controllers and recorders, all with sensors, within the specified parameters and ranges)	-80°C to 150°C	0.25 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	Lab & Site
<b>HUMIDITY</b>  Humidity controlled enclosures				Lab & Site
Dewpoint	-10.8 °C to 81 °C dewpoint	0.57 °C dewpoint	Using dewpoint sensor	
Relative humidity	20%rh to 95%rh 10°C to 40°C	1.0 %rh to 2.7 %rh	Using dewpoint sensor	
	85 %rh at 85 °C	1.7 %rh		
	20 %rh to 95 %rh 10 °C to 70 °C	3.9 %rh to 4.4 %rh	Using RH sensor	
	85 %rh at 85 °C	4.3 %rh		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>Calibration of ETS equipment for use in customer calibrations</b>				
TEMPERATURE				
Temperature probes with indicators and recorders	-80 °C to +155 °C	0.05 °C	Comparison in a block calibrator	Lab
HUMIDITY				
Dewpoint instruments	-10.8 °C to 81 °C dewpoint	0.35 °C dewpoint	Comparison in an air chamber	Lab
Temperature probes used with humidity sensors	20 °C 10 °C to 70 °C	0.065 °C 0.40 °C	Comparison in an air chamber	Lab
Relative humidity indicators and recorders	20 %rh, 20 °C 50 %rh, 20 °C 95 %rh, 20 °C	0.80 %rh 0.95 %rh 1.1 %rh	Using unsaturated salts	Lab
	20 %rh to 95 %rh 10 °C to 70 °C	0.80 %rh to 2.3 %rh	Comparison with dewpoint meter	
	85 %rh at 85 °C	2.1 %rh		
<b>END</b>				



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