


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> CALIBRATION</p> <p><b>0031</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<h3>Uniper Technologies Limited</h3> <p><b>Issue No: 035      Issue date: 05 September 2025</b></p>	
	<p><b>Hams Hall Calibration Laboratory</b> Faraday Avenue Hams Hall Distribution Park Coleshill Birmingham West Midlands B46 1PT</p>	<p><b>Contact: Dr. Mehrdad Esfandiari</b> Tel: +44 (0)7595 125170 E-Mail: Mehrdad.Esfandiari@uniper.energy</p>
<p><b>Calibration performed at the above address only</b></p>		

### Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
FLOW (Water)			
Volumetric Flow Rate	0.5 l/s to 440 l/s	0.10 %	Gravimetric System. (Main Rig) Temperature: ambient to 70 °C Up to 3 bar static pressure
Mass Flow Rate	0.5 kg/s to 440 kg/s	0.043 %	
Volume Passed	2,000 litres to 24,000 litres	0.10 %	
Volumetric Flow Rate	3 l/s to 140 l/s	0.15 %	Transfer Standard System. (Intermediate Rig) Temperature: ambient to 50 °C Up to 4.2 bar static pressure
Mass Flow Rate	3 kg/s to 140 kg/s	0.15 %	
Volume Passed	1000 litres to 50,000 litres	0.15 %	
Volumetric Flow Rate	0.25 l/min to 530 l/min	0.22 %	Gravimetric System (Mini Rig) Ambient temperature. Up to 12 bar static pressure
Mass Flow Rate	0.25 kg/min to 530 kg/s	0.22 %	
Volume Passed	2 litres to 1500 litres (at flow rates between 1.5 l/hr and 30,000 l/hr)	0.22 %	
PRESSURE			
Gas pressure (gauge)			Calibration of devices with an electrical output can be undertaken
Calibration of pressure indicating instruments and gauges	3.4 kPa to 301 kPa	0.015 %	
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$