

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0060</b>  Accredited to <b>ISO/IEC 17025:2017</b>	<b>CSA Group Testing UK Ltd</b>	
	Issue No: 060    Issue date: 23 January 2024	
	<b>Unit 6</b> Hawarden Industrial Park Hawarden Deeside CH5 3US	<b>Contact: Mr Wayne Thomas</b> Tel: +44 (0)1244 670900 Fax: +44 (0)1244 681330 E-Mail: wayne.thomas@csagroup.org Website: www.csagroupuk.org

**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> Unit 6 Hawarden Industrial Park Hawarden Deeside CH5 3US  <b>Local contact</b> Mr Wayne Thomas  Tel: +44 (0)1244 670900 Fax: +44 (0)1244 681330 E-Mail: wayne.thomas@csagroup.org Website: www.csagroupuk.org	Gas Detectors Optical Measurements	P

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

Location details	Activity	Location code
Customer Premises, e.g. MoT Test Centres, Garages, and Repair/Service Facilities (including those of CSA Group Testing UK Ltd). The customer's 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.	Vehicle Exhaust Analyser (VEGA/DSM) Calibration	S



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>GAS ANALYSERS</b>				
Instruments approved by the VOSA on behalf of the Department for Transport for the measurement of vehicle exhaust emissions	As per Vehicle Inspectorate requirements VPB/07/24/20/CAL dated May 1995 (1 <sup>st</sup> revision August 1995)	1.2 % of reading	A list of individual approved signatories and the type of approved instruments they may calibrate is held by the laboratory and by UKAS.	S
Instruments approved by the VOSA on behalf of the Department for Transport for the measurement of free acceleration smoke	As per Vehicle Inspectorate requirements MOT/08/19/01 dated October 2001 (3 <sup>rd</sup> revision January 2007)	Smoke Obscuration Coefficient 0.12 m <sup>-1</sup>		
<b>GAS DETECTORS</b>			SELGAS 1 using reference gas mixtures	P
0 % to 100 % Methane in air or Nitrogen		1.5 % relative + 0.00010 % Measured gas in air or Nitrogen		
0 % to 100 % Propane in air or Nitrogen				
0 % to 100 % Butane in air or Nitrogen				
0 % to 25 % Oxygen in Nitrogen				
<b>OPTICAL MEASUREMENTS</b>			SELOPT1 using calibrated spectrophotometer as a reference	P
Optical Transmission at 565 nm	7% to 20%	0.25%		
	>20 % to 100 %	0.41 % of optical transmission		
Derived Smoke Obscuration Coefficient (K value)	0.4 m <sup>-1</sup> to 3.8 m <sup>-1</sup> (Optical path length 200 mm to 690 mm)	0.050 m <sup>-1</sup>		
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$