

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 10741 Accredited to ISO/IEC 17025:2017	AVL United Kingdom Limited	
	Issue No: 005 Issue date: 23 August 2021	
	Avon House Hartlebury Trading Estate Hartlebury DY10 4JB United Kingdom	Contact: Mr Mark Baker Tel: +44 (0) 1299 254600 E-Mail: mark.baker@avl.com Website: www.avl.com
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
Unit 1 Viggen Way Ansty Business Park Coventry CV7 9RE	Local contact As above Pressure calibration Temperature calibration	P

Site activities performed away from the locations listed above:

Location details	Activity	Location code
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	Pressure calibration Temperature 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
<p>PRESSURE</p> <p>Gas pressure gauge</p> <p>Calibration of pressure indicating instruments and gauges by comparison</p> <p>Gas pressure absolute</p> <p>Calibration of pressure indicating instruments and gauges by comparison</p> <p>TEMPERATURE</p> <p>PRT sensor and indicator calibration</p>	<p>- 100 kPa to - 20 kPa - 20 kPa to - 2 kPa - 2 kPa to 2 kPa 2 kPa to 20 kPa 20 kPa to 350 kPa 350 kPa to 1 MPa 1 MPa to 2 MPa</p> <p>60 kPa to 120 kPa</p> <p>1 °C to 95 °C</p>	<p>0.076 % + 168 Pa 0.39 % + 1.7 Pa 0.41 % + 1.0 Pa 0.39 % + 1.7 Pa 0.044 % + 190 Pa 0.044 % + 283 Pa 0.044 % + 338 Pa</p> <p>97 Pa</p> <p>0.20 °C</p>	<p>Methods consistent with EURAMET CG17</p> <p>By comparison in a liquid bath</p>	<p>P & S</p> <p>P & S</p> <p>P & S</p>
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: $Q[a, b] = [a^2 + b^2]^{1/2}$