

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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



6500

Accredited to  
ISO/IEC 17025:2017

### MEL Aviation Ltd

Issue No: 001 Issue date: 04 March 2025

Laurence Walter House  
Addison Road  
Chilton Industrial Estate  
Sudbury  
Suffolk  
CO10 2YW

Contact: Mr Bob Austin  
Tel: +44 (0)1787 373282  
Fax: +44 (0)1787 310812  
E-Mail: bobaustin@melaviation.co.uk  
Website: www.melaviation.co.uk

Calibration performed at the above address only

#### Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
<b>PRESSURE</b>  <u>Gas pressure (gauge)</u> Calibration of pressure indicating instruments and gauges  <u>Gas pressure (absolute)</u> Calibration of pressure indicating instruments and gauges	  -100 kPa to -35 kPa -35 kPa to 35 kPa 35 kPa to 2 MPa 2 MPa to 42 MPa   3.4 kPa to 2.1 MPa 2.1 MPa to 42 MPa	  Q [0.014 %, 150 Pa] Q [0.035 %, 6.5 Pa] Q [0.014 %, 150 Pa] Q [0.013 %, 3.6 kPa]   Q [0.014 %, 150 Pa] Q [0.013 %, 3.6 kPa]	  Methods consistent with EURAMET CG17  Oxygen gauges can be calibrated
END			



6500

Accredited to  
ISO/IEC 17025:2017

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**MEL Aviation Ltd**  
**Issue No: 001   Issue date: 04 March 2025**

Calibration performed at main address only

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