


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|---|--|---|
|  0467 Accredited to ISO/IEC 17025:2017 | Devon Metrology Laboratory | |
| | Issue No: 018 Issue date: 18 August 2021 | |
| | Trading Standards Service County Hall Topsham Road Exeter EX2 4QH | Contact: Victor Wardle Tel: +44 (0) 1392 383316 / 383000 Fax: +44 (0) 1392 382732 E-Mail: calibration@devon.gov.uk Website: www.devonsomersettradingstandards.gov.uk/weight-testing-service |
| 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 |
|---|--|-----------------------------------|
| Address Trading Standards Service County Hall Topsham Road Exeter EX2 4QH | Local contact As above | Mass - Weights and artefacts A |
| Address Trading Standards Service West Buckland Road Chelston Somerset TA21 9HP | Local contact As above Tel +44 (0)1392 383000/01823 666548 Email As above | Mass - Weights and artefacts B |



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Calibration and Measurement Capability (CMC)

| Measured Quantity Instrument or Gauge | Range | Expanded Measurement Uncertainty ($k = 2$) | Remarks | Location Code |
|--|-------------------|---|---|------------------|
| MASS | Nominal value (g) | (mg) | | A, B |
| Weights and artefacts | 25 000 | 75 | 1. Calibrations can be given in other units as required. 2. Intermediate values can be calibrated with an uncertainty interpolated from the next higher and lower values in the table above. 3. Calibration by comparison using Borda's method of substitution. | |
| | 20 000 | 20 | | |
| | 10 000 | 10 | | |
| | 5 000 | 5.0 | | |
| | 2 000 | 2.0 | | |
| | 1 000 | 1.0 | | |
| | 500 | 0.50 | | |
| | 200 | 0.10 | | |
| | 100 | 0.050 | | |
| | 50 | 0.033 | | |
| | 20 | 0.027 | | |
| | 10 | 0.020 | | |
| | 5 | 0.017 | | |
| | 2 | 0.013 | | |
| | 1 | 0.010 | | |
| | 0.5 | 0.0080 | | |
| | 0.2 | 0.0070 | | |
| | 0.1 | 0.0050 | | |
| | 0.05 | 0.0040 | | |
| | 0.02 | 0.0030 | | |
| | 0.01 | 0.0030 | | |
| | 0.005 | 0.0020 | | |
| | 0.002 | 0.0020 | | |
| | 0.001 | 0.0020 | | |
| 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: $Q[a, b] = [a^2 + b^2]^{1/2}$