Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0370

Accredited to ISO/IEC 17025:2017

Northern Balance Limited

Issue No: 028 **Issue date:** 05 June 2025

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First Avenue
Team Valley Trading Estate
Gateshead
NE11 0TX

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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
Address Unit 3 Bamburgh Court First Avenue Team Valley Trading Estate Gateshead NE11 0TX	**Local contact:** Paul Moran	Volume	Perm

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customers' sites or premises The customer's sites or premises must be suitable for the nature of the particular calibrations undertaken and will be subject of contract review arrangements between the laboratory and the customer	Mass – weighing machines (non automatic)	S

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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
NON AUTOMATIC WEIGHING MACHINES	200 mg 500 mg 1g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 50 kg 60 kg 100 kg 200 kg 500 kg 1000 kg 2000kg 2500 kg 5000 kg 6500 kg	0.0166 mg 0.0201 mg 0.0252 mg 0.0328 mg 0.0407 mg 0.052 mg 0.069 mg 0.101 mg 0.17 mg 0.34 mg 0.85 mg 2.8 mg 5.5 mg 13.8 mg 27.7 mg 56 mg 162 mg 186 mg 885 mg 6.6 g 15.1 g 30 g 66 g 76 g 151 g 184 g	1. Weights are available in OIML Class E2 from 1 mg to 200 g Max grouped load 912 g F1 from 50 mg to 10 kg Max grouped load 108 kg M1 from 5 kg to 20 kg Max. grouped load 6500 kg 2 Other loads within the overall listed range may also be used 3. Method based on the requirements of Euramet guide cg-18	S
VOLUME of liquids	0.5ul to 2ul 2 µl to 10 µl 10 µl to 20 µl 20 µl to 100 µl 100 µl to 200 µl 200 µl to 1000 µl 1000 µl to 5000 µl 5000 µl to 10000 µl	0.082 µl 0.146 µl 0.170 µl 0.61 µl 0.63 µl 0.86 µl 1.64 µl 1.96 µl	For water delivered from piston and/or plunger operated volumetric apparatus using procedure as defined in ISO 8655-6:2022 (gravimetric method). Single channel pipettes only	Perm
END				

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