


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0260</b> <b>Accredited to ISO/IEC 17025:2017</b>	<b>Norfolk Calibration Services</b> <b>Issue No: 033    Issue date: 08 October 2024</b>	
	<b>Norfolk County Council</b> 69, Hethel Engineering Centre Chapman Way Hethel Norwich NR14 8FB	<b>Contact: Mr Adrian Chapman</b> <b>Tel: +44 (0)1953 859149</b> <b>E-Mail: <a href="mailto:calibration@norfolk.gov.uk">calibration@norfolk.gov.uk</a></b> <b>Website: <a href="http://www.norfolk.gov.uk/calibration">http://www.norfolk.gov.uk/calibration</a></b>

**Calibration performed by the Organisation at the locations specified below**

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Norfolk County Council 69, Hethel Engineering Centre Chapman Way Norwich NR14 8FB	<b>Local contact</b> Adrian Chapman	Mass (Weights) Mass (Weighing machines)  Lab

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

Location details	Activity	Location code
Customers' Premises The customers' 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.	Mass ( Weighing machines)	Site



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>MASS</b> See Notes 1, 2, 3 and 4	Nominal value(g)	(mg)		Lab
	25 000	21	1 Intermediate values can be calibrated with an uncertainty equal to that of the next higher nominal value.  2 Calibrations can be given in other units as required.  3 The Calibration and Measurement Capability shown will permit statements of compliance to the Maximum Permissible Errors shown in OIML R111 up to Class F1 at 25kg, up to Class E2 from 20kg to 1mg, and up to Class E1 from 50g to 1mg.  4 Borda's Substitution Method	
	20 000	7.0		
	10 000	4.2		
	5 000	2.0		
	2 000	0.70		
	1 000	0.40		
	500	0.18		
	200	0.080		
	100	0.040		
	50	0.008 0		
	20	0.006 0		
	10	0.005 0		
	5	0.004 0		
	2	0.001 2		
	1	0.000 90		
	0.5	0.000 80		
	0.2	0.000 80		
	0.1	0.000 80		
	0.05	0.000 80		
0.02	0.000 60			
0.01	0.000 60			
0.005	0.000 60			
0.002	0.000 60			
0.001	0.000 60			
<b>NON AUTOMATIC WEIGHING MACHINES</b> See notes 5, 6 and 7  (From 1 mg to 2300 kg)	200 mg	0.009 2 mg	5 Methods consistent with EURAMET CG18  6 Weights are available in OIML Class:  E2 from 1 mg to 2 kg, max. grouped load 5 kg  F1 from 1 mg to 20 kg, max. grouped load 75 kg  M1 from 1 g to 20 kg, max. grouped load 2300 kg  7 Other loads within the overall listed range may also be used.	Lab & Site
	500 mg	0.012 2 mg		
	1 g	0.015 mg		
	2 g	0.018 mg		
	5 g	0.023 mg		
	10 g	0.033 mg		
	20 g	0.045 mg		
	50 g	0.074 mg		
	100 g	0.14 mg		
	200 g	0.28 mg		
	500 g	0.69 mg		
	1 kg	1.4 mg		
	2 kg	2.8 mg		
	2.5 kg	3.5 mg		
	5 kg	6.9 mg		
	10 kg	19 mg		
	20 kg	39 mg		
	50 kg	127 mg		
	75 kg	166 mg		
	100 kg	1.3 g		
200 kg	7.4 g			
500 kg	17 g			
1000 kg	35 g			
2000 kg	74 g			
2300 kg	110 g			
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$