

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0433 Accredited to ISO/IEC 17025:2017	Mettler-Toledo Ltd	
	Issue No: 024 Issue date: 04 March 2024	
	64 Boston Road Leicester LE4 1AW	Contact: Mr Troy Smith Tel: +44 (0)116 2357070 E-Mail: Troy.Smith@mt.com Website: www.mt.com
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 64 Boston Road Leicester LE4 1AW	Local contact Troy Smith	Mass Volume	P

Site activities performed away from the locations listed above:

Location details		Activity	Location code
At 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.		Calibration of non automatic weighing machines Volume Calibration of PCR Machines and thermal cyclers	S



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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)	NOTES 1 Calibrated using Borda substitution method. 2 Intermediate values can be calibrated with an uncertainty not less than that interpolated from the next higher and lower nominal value in the table. 3 Calibrations can be given in other units as required	P
	30 000	30		
	20 000	20		
	10 000	10		
	5 000	5.0		
	2 000	1.0		
	1 000	0.50		
	500	0.25		
	200	0.10		
	100	0.050		
	50	0.030		
	20	0.025		
	10	0.020		
	5	0.015		
	2	0.012		
	1	0.010		
	0.5	0.0080		
	0.2	0.0060		
	0.1	0.0050		
	0.05	0.0040		
	0.02	0.0030		
	0.01	0.0020		
	0.005	0.0020		
	0.002	0.0020		
	0.001,	0.0020		
	See notes 1 and 2			
NON-AUTOMATIC WEIGHING MACHINES	1 mg to 5 mg	0.0036 mg	3.Weights are available in OIML Class:	S
	5 mg to 10 mg	0.0039 mg		
	10 mg to 20 mg	0.0055 mg		
	20 mg to 50 mg	0.0071 mg	E2 1 mg to 1 kg. max grouped load 2.3 kg	
	50 mg to 100 mg	0.009 mg		
	100 mg to 200 mg	0.011 mg		
	200 mg to 500 mg	0.015 mg	F1 1 g to 10 kg. max grouped load 64 kg	
	500 mg to 1 g	0.018 mg		
	1 g to 2 g	0.022 mg		
	2 g to 5 g	0.028 mg	M1 10 kg. max grouped load 1000 kg	
	5 g to 10 g	0.043 mg		
	10 g to 20 g	0.055 mg		
	20 g to 50 g	0.067 mg		
	50 g to 100 g	0.12 mg	4. Other loads within the overall listed range may also be used.	
	100 g to 2.3 kg	$m(1.1 \times 10^{-6})$		
	2.3 kg to 10 kg	$m(2.9 \times 10^{-6})$		
	10 kg to 64 kg	$m(6.5 \times 10^{-6})$	5. Where m is applied mass	
	64 kg to 1000 kg	$m(6.1 \times 10^{-5})$		
	See notes 3 and 4.	See note 5	6. Method in line with Euramet guide cg-18	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
VOLUME of liquids (See Note 7)	Nominal value			
Single channel instruments	0.1 μ L to 2.0 μ L 2.0 μ L to 20.0 μ L 20.0 μ L to 100 μ L 100 μ L to 200 μ L 200 μ L to 500 μ L 0.5 mL to 1 mL 1 mL to 2 mL 2 mL to 5 mL 5 mL to 10 mL 10 mL to 20 mL 20 mL to 50 mL 50 mL to 100 mL	0.030 μ L 0.060 μ L 0.20 μ L 0.30 μ L 0.70 μ L 0.002 0 mL 0.003 0 mL 0.007 0 mL 0.015 mL 0.020 mL 0.030 mL 0.050 mL	Note 7. For water delivered from piston and/or plunger operated volumetric apparatus using procedure as defined in ISO 8655 (gravimetric method). Users requiring conformity to ISO 8655-6 should note that this cannot be demonstrated using fewer than 10 readings.	P, S
Multi-channel instruments up to 12 channels simultaneously calibrated	1.0 μ L to 20 μ L 20.0 μ L to 50.0 μ L 50.0 μ L to 100 μ L 100 μ L to 200 μ L 200 μ L to 600 μ L 600 μ L to 1200 μ L Above 1200 μ L to 1250 μ L	0.10 μ L 0.20 μ L 0.30 μ L 0.50 μ L 1.5 μ L 5.0 μ L 7.0 μ L		P, S
TEMPERATURE (See Note 8)				
Static and dynamic calibration of: 1. PCR [®] cycler 2. Thermocycler 3. Temp controlled dry-block incubators	30 °C to 95 °C	0.22 °C	Note 8. Single point or multi-point calibration Calibration against digital thermometer with an array of sensors. The PCR [®] (Polymerase Chain Reaction), process is covered by patents owned by Hoffman-LaRoche Inc	S
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: $Q[a, b] = [a^2 + b^2]^{1/2}$