

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



0595

Accredited to
ISO/IEC 17025:2017

Common Services Agency - NHS National Services Scotland

Issue No: 020 Issue date: 19 August 2021

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Tel: +44 (0) 131 275 6562
Email: Norman.McLean@nhs.scot
Website: <http://www.hfs.scot.nhs.uk/validation>

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 5 Kirkhill Business Unit Park Court Broxburn West Lothian EH52 6EE	Local contact Mr Norman McLean Tel: +44 (0)131-275 6562 Email: Norman.McLean@nhs.scot Website: www.hfs.scot.nhs.uk/validation	Electrical Pressure Temperature P

Site activities performed away from the locations listed above:

Location details	Activity	Location code
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.	Local contact Mr Norman McLean Contact details as above	Electrical Pressure Temperature S



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL			Calibration by comparison with a reference device	
Calibration of temperature indicators by electrical simulation.				
Base metal thermocouples	0 °C to 200 °C	0.63 °C	with cold junction compensation	P and S
Time Interval	10 s to 1 hour	1.8 s		P and S
PRESSURE			Calibration by comparison with a reference device	
Gas pressure (absolute)	5 kPa to 400 kPa 5 kPa to 400 kPa	0.43 kPa 1.1 kPa	Direct calibration Transfer calibration	P and S
Gas pressure (gauge)	0 to 300 kPa 0 to 300 kPa	0.58 kPa 1.1 kPa	Direct calibration Transfer calibration	P and S
TEMPERATURE			Calibration by comparison with a reference device	
Thermometers with sensors, digital and analogue	0 °C to 200 °C	0.08 °C		P
	0 °C to 200 °C	0.21 °C		P and S
Temperature controlled autoclaves, washer disinfectors, media preparators, incubators, sterilizers, ovens, environmental chambers, fridges/refrigerators and liquid baths (inclusive of associated indicators, controllers and recorders, all with sensors, within the specified parameters and ranges)	0 °C to 200 °C	0.21 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	P and 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: $Q[a, b] = [a^2 + b^2]^{1/2}$