Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

UKAS CALIBRATION **8427** **Accredited to ISO/IEC 17025:2017**	**Gilson Scientific Ltd** **Issue No:** 010 **Issue date**: 16 August 2021	
	3B Humphrys Road **Woodside Estate** **Dunstable** **LU5 4TP**	**Contact: Mrs Aleksandra Orda-Dejnarowicz** **Tel: +44 (0) 1582 399475** **E-Mail: aorda@gilsonuk.com** **Website: www.gilsonuk.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 3B Humphrys Road Woodside Estate Dunstable LU5 4TP	**Local contact** Aleksandra Orda-Dejnarowicz	Volume	A

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.	Volume	Site

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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
VOLUME of liquids (See Note 1) For water delivered from a POVA.	Nominal volume Single Channel Pipettes 0.2uL to 2uL 2 µL to10 µL 10 µL to 20 µL 20 µL to 100 µL 100 µL to 200 µL 200 µL to 1000 µL 1000 µL to 10000 µL Multi Channel Pipettes 1 µL to 20 µL 20 µL to 300 µL 300 µL to 600 µL 600 µL to 1200 µL	 0.09uL 0.11uL 0.15uL 1.46uL 2.15uL 7.44uL 90.65uL 0.19 µL 0.50 µL 0.90 µL 1.8 µL	Note 1. For water delivered from POVA (piston and/or plunger operated volumetric apparatus) using procedures agreed with UKAS. Note 2. To include multi-channel instruments of up to 12 channels simultaneously calibrated. Gravimetric method 3 volumes 10 readings (as specified in ISO 8655) 3 volumes 5 readings 2 volumes 4 readings	A and Site
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: $Q[a, b] = [a^2 + b^2]^{1/2}$