


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>0440</b></p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Wortley Standards Limited</h3> <p>Issue No: 020 Issue date: 18 August 2021</p>	
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<p><b>Calibration performed at the above address only</b></p>		

### Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
<p>RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED</p>			
LENGTH			NOTES
Plain plug gauges (parallel), cylindrical setting standards, pin gauges and rollers	1 to 100 diameter	1.0	Note 1: Simple height gauges - vernier, dial and digital instruments designed only for measuring distances parallel to the beam.
	100 to 150	1.5	
	150 to 200	2.0	
	200 to 300	3.0	
Plain ring gauges (parallel) and setting standards	5 to 25 diameter	1.0	Note 2: Conformance statements cannot be made against specifications whose magnitudes are smaller than the specified CMC values
	25 to 50	1.5	
	50 to 100	2.0	
	100 to 150	2.5	
	150 to 200	3.0	
	200 to 300	3.5	
Plain gap gauges (parallel)	5 to 100	3.0	Note 3: Plain limit gauges calibrated by comparison to length standards.
	100 to 200	5.0	
	200 to 300	8.0	
MEASURING INSTRUMENTS AND MACHINES			
Micrometers External Internal Depth	As BS 870:2008 0 to 1000	Heads: 2.0 between any two points	
	As BS 959:2008 0 to 900		
Micrometer heads	As BS 6468:2008 0 to 450	Setting and extension rods: 1.0 + (8.0 x length in m)	
	As BS 1734:1951 0 to 100	1.0	
Bench micrometer	As NPL MOY/SCMI 22 0 to 100	Overall performance 2.0 between any two points	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED			
Vernier caliper, height and depth gauges	As BS 887:2008 0 to 1500 As BS 1643:2008 withdrawn 0 to 1200 As BS 6365: 2008 0 to 600	Overall performance $10 + (30 \times \text{length in m})$	
Height gauges - (Simple) including vernier, dial and digital types (See note 1 and note 2)	As BS EN ISO 13225:2012 (0 to 1200)	Length measurement error (E): $10 + (30 \times \text{length in metres})$	
Dial gauges and dial test indicators	As BS 907:2008 and BS 2795:1981 0 to 50	1.0	
Feeler Gauges	As BS 957:2008 0.03 to 1.00	1.0	
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$