


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>0646</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<p align="center"><b>Newtown Metrology Ltd</b></p> <p align="center"><b>Issue No: 011      Issue date: 16 January 2025</b></p>	
	<p><b>c/o Malken Gauge &amp; Tool Company</b>  <b>260 Summer Lane</b>  <b>Newtown</b>  <b>Birmingham</b>  <b>B19 2PX</b></p>	<p><b>Contact: Mr S A Taylor</b>  <b>Tel: +44 (0)121-333 3808</b>  <b>Fax: +44 (0)121-333 3617</b></p>

**Calibration performed at the above address only**

### Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED			
<b>DIMENSIONAL</b>			
Plain Plug gauges (Parallel) including Cylindrical setting standards	1 to 50 diameter	0.50	By comparison with reference standards
	50 to 100 diameter	0.80	
	100 to 150 diameter	1.0	
	150 to 200 diameter	1.5	
	200 to 300 diameter	2.0	
	300 to 400 diameter	2.5	
Plain Ring gauges (Parallel)	1 to 25 diameter	0.80	By comparison with reference standards
	25 to 50 diameter	1.0	
	50 to 100 diameter	1.5	
	100 to 150 diameter	2.0	
	150 to 300 diameter	2.5	
Plain Plug gauges (Taper)			
Taper up to 1 in 8 on diameter	3 to 50 diameter	3.0	By comparison with reference standards
	50 to 100 diameter	4.0	
	100 to 200 diameter	5.0	
	200 to 300 diameter	6.0	
Taper above 1 in 8 on diameter	3 to 50 diameter	3.0	By comparison with reference standards
	50 to 100 diameter	4.5	
	100 to 200 diameter	6.0	
	200 to 300 diameter	7.0	
Plain Ring gauges (Taper)			
Taper up to 1 in 8 on diameter	3 to 50 diameter	3.0	By comparison with reference standards
	50 to 100 diameter	4.0	
	100 to 200 diameter	5.0	
	200 to 300 diameter	6.0	
Taper above 1 in 8 and up to 1 in 3 on diameter	3 to 50 diameter	4.0	By comparison with reference standards
	50 to 100 diameter	6.0	
	100 to 200 diameter	7.0	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks
<b>DIMENSIONAL</b> (continued)  Plain Gap gauges (Parallel)	1 to 100 100 to 200 200 to 300 300 to 400 400 to 500	2.0 3.0 4.0 6.0 8.0	By comparison with reference standards
Receiver position and profile gauges, jigs and fixtures	0 to 500 x 500 x 500	50	Using documented in-house methods
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$