


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION</p> <p>4691</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>College Gauge Calibration (A division of College Gauge & Tool Co Ltd)</p> <p>Issue No: 008 Issue date: 13 August 2021</p>	
	<p>Unit 16 The Business Centre 20 James Road Tyseley Birmingham B11 2BA</p>	<p>Contact: Stephen Wareham Tel: +44 (0)121 764 6433 Fax: +44 (0)121 706 1662 E-Mail: davecollegegauge@gmail.com</p>
<p>Calibration performed by the Organisations at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
<p>Address Unit 16 The Business Centre 20 James Road Tyseley Birmingham</p>	<p>Local contact Mr S Wareham</p>	Dimensional	A

Site activities performed away from the locations listed above:

Location details		Activity	Location code
<p>Address At customers' premises</p>	<p>Contact Mr S Wareham</p>	Dimensional	B



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Calibration performed at main address only

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH Gauge blocks Inch (Steel and tungsten carbide) Millimetre (Steel and tungsten carbide)	As BS 4311-1:2007 0.01 inch to 0.4 inch 0.4 inch to 1 inch 2 inch 3 inch 4 inch As BS EN ISO 3650:1999 0.50 to 10 10 to 25 30, 40, 50 60, 70, 75 80, 90, 100	Class (see note 1) C 3.0 4.0 5.0 μ inches 6.0 7.0 C .080 .10 .12 .15 .18	Notes: 1) Class C uncertainties apply to the measurement of length of gauges by comparison with grade K standards of length of a similar material. Class C uncertainties apply to new and used grade 0,1 & 2 gauges to BS 4311-1:2007 and BS EN ISO 3650:1999	A
MEASURING INSTRUMENTS AND MACHINES Dial Caliper Gauges (Internal and External) Steel	0 to 100	Overall performance 25	Calibrated using length standards	A
FORM Surface plates Granite Cast iron	160 x 100 to 2500 x 1600	1.5 + (0.80 x diagonal in m) See Note 2	BS 817:2008 Calibrated using an electronic level. The uncertainty quoted is for the departure from flatness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration	A, B
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: $Q[a, b] = [a^2 + b^2]^{1/2}$