Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



0157

Accredited to ISO/IEC 17025:2017

Element Materials Technology Sheffield Ltd, Trading as Element Materials Technology Sheffield – Magna Way

Issue No: 049 Issue date: 07 October 2021

3 Ignite, Magna Way Rotherham S60 1FD Contact: Dr Stuart Read Tel: +44 (0) 7554 328412 Fax: +44 (0)114 723248 E-Mail: Stuart.read@element.com Website: www.element.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 3 Ignite, Magna Way	Local contact Dr Stuart Read	Force	Р
Rotherham S60 1FD	Tel: +44 (0) 7554 328412		
	Fax: +44 (0)114 723248		
	E-mail:stuart.read@element.com		



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty $(k = 2)$	Remarks	Location Code		
FORCE			NOTES			
Calibration of force measuring devices e.g. proving devices, strain gauged load cells, load measuring rings and force meters in compression and tension modes	Machine No 1 100 kN up to 500 kN Increasing forces only	0.050 %	1. Calibration can be performed in accordance with BS EN ISO 376:2011 and ASTM E74-18e1.	Ρ		
	Machine No 2 10 kN up to 100 kN	0.020 %				
	Machine No. 3, 5 kN up to 56 kN	0.020 %				
	Machine No 4 1 kN up to 25 kN 0.5 kN up to 25 kN	0.020 % 0.050 %				
	Machine No 5 0.1 N up to 2.5 kN	0.010 %				
END						

Calibration and Measurement Capability (CMC)



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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: $Q[a, b] = [a^2 + b^2]^{1/2}$

Assessment Manager: MS5