

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 32229 Accredited to ISO/IEC 17025:2017	MAControls Limited	
	Issue No: 001 Issue date: 20 August 2026	
	9 Enterprise Way Cheltenham Trade Park Cheltenham Gloucestershire GL51 8LZ	Contact: Ms Eleanor MacKay Tel: +44 (0)1452 887265 E-Mail: Eleanor@macontrols.com Website: www.macontrols.com
Calibration performed at the above address only		

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
TEMPERATURE			
Resistance thermometers	-25 °C to 0 °C 0 °C to 125 °C 125 °C to 300 °C 300 °C to 660 °C	0.10 °C 0.075 °C 0.14 °C 0.45 °C	Calibration by comparison in a stirred liquid bath in a metal block bath
Thermocouples	-25 °C to 125 °C 125 °C to 300 °C 300 °C to 660 °C	0.35 °C 0.50 °C 0.95 °C	in a stirred liquid bath in a metal block bath
Temperature indicators and recorders with the following probe types			
Resistance (eg Pt100)	-25 °C to 0 °C 0 °C to 125 °C 125 °C to 300 °C 300 °C to 660 °C	0.10 °C 0.060 °C 0.14 °C 0.45 °C	in a stirred liquid bath in a metal block bath
Thermocouples	-25 °C to 0 °C 0 °C to 125 °C 125 °C to 300 °C 300 °C to 660 °C	0.10 °C 0.060 °C 0.40 °C 0.90 °C	in a stirred liquid bath in a metal block bath
PRESSURE			
Hydraulic pressure (gauge)			Methods consistent with EURAMET CG17
Calibration of pressure indicating instruments and gauges	400 kPa to 14 MPa	0.011 % + 0.30 kPa	Calibration by comparison with a deadweight tester
Gas pressure (gauge)			
Calibration of pressure indicating instruments and gauges	0 kPa to 2 MPa	0.35 kPa to 0.55 kPa	Calibration by comparison with an indicating instrument
END			



Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

MAControls Limited

Issue No: 001 Issue date: 20 August 2026

Calibration performed at main address only

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