

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0625</b> Accredited to ISO/IEC 17025:2017	<b>Labcal Limited</b>	
	Issue No: 053    Issue date: 26 November 2025	
	Unit 265 Ampress Park Lymington Hampshire SO41 8JU	Contact: Mr Steven Coe Tel: +44 (0)1590 670146 E-Mail: <a href="mailto:contact@labcal.co.uk">contact@labcal.co.uk</a> Website: <a href="http://www.labcal.co.uk">www.labcal.co.uk</a>
Calibration performed by the Organisation at the locations specified		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code	
<b>Address</b> Labcal Limited Unit 265 Ricardo Way Ampress Park Lymington Hampshire SO41 8JU	<b>Local contact</b>  Mr Steven Coe	<a href="#">Air velocity calibration</a> <a href="#">Electrical calibration</a> <a href="#">Flow calibration</a> <a href="#">Humidity calibration</a> <a href="#">Pressure calibration</a> <a href="#">Temperature calibration</a>	A
<b>Address</b> Saltmarsh Park 67 Gosport Street Lymington SO41 9EG	<b>Local contact</b>  Mr Steven Coe	<a href="#">Air velocity calibration</a>	B





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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
<b>PRESSURE</b>			Methods consistent with EURAMET CG17:	
<u>Hydraulic pressure (gauge)</u>				A
Calibration of pressure indicating instruments and gauges	500 kPa to 60 MPa 60 MPa to 140 MPa	0.010 % 0.014 %		
<u>Hydraulic pressure (absolute)</u>				A
Calibration of pressure indicating instruments and gauges	600 kPa to 60 MPa 60 MPa to 140 MPa	Q [0.010 %, 10 Pa] 0.014 %		
<u>Gas pressure (gauge)</u>				A
Calibration of pressure indicating instruments and gauges	-100 kPa to 0 Pa 0 Pa to 3 kPa 3 kPa to 9 kPa 9 kPa to 40 kPa 40 kPa to 500 kPa 500 kPa to 8.2 MPa	Q [0.010 %, 30 Pa] Q [0.016 %, 0.070 Pa] Q [0.016 %, 0.31 Pa] Q [0.010 %, 3.4 Pa] Q [0.010 %, 41 Pa] Q [0.010 %, 710 Pa]		
<u>Gas pressure (absolute)</u>				A
Calibration of pressure indicating instruments and gauges	80 kPa to 115 kPa	0.010 %	Absolute pressure calibrations can be undertaken using associated barometric pressure measurement correction. The uncertainties quoted will be increased by 10 Pa	



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<b>ELECTRICAL</b>			Reference meter methods:	
DC Voltage	0 V to 120 mV 120 mV to 1.2 V 1.2 V to 12 V 12. V to 120 V	Q [0.0070 %, 7.0 μV] Q [0.0060 %, 20 μV] Q [0.0050 %, 80 μV] Q [0.0060 %, 33 mV]		A
DC Current	0 A to 12 mA 12 mA to 120 mA	Q [0.080 %, 4.0 μA] Q [0.080 %, 14 μA]		
DC Resistance	10 Ω to 1.2 kΩ 1.2 kΩ to 12 kΩ	Q [0.015 %, 30 mΩ] Q [0.015 %, 160 mΩ]		
FREQUENCY	1 Hz to 50 kHz	Q [0.0020 %, 10 μHz]		
TIME INTERVAL				
Elapsed time, single event Stop watches and timers	5 s to 24 Hours	20 ms		
ELECTRICAL CALIBRATION OF TEMPERATURE INDICATORS AND SIMULATORS			Reference meter methods:	
<u>Base Metal thermocouples</u>			Including reference junction compensation	A
Type T	- 200 °C to +400 °C	0.50 °C		
Type N	- 200 °C to +1300 °C	0.50 °C		
Type K	- 200 °C to +1372 °C	0.50 °C		
Type J	- 200 °C to +1200 °C	0.50 °C		
Type E	- 200 °C to +1000 °C	0.50 °C		
<u>Noble Metal thermocouples</u>			Including reference junction compensation	
Type S	0 °C to 1760 °C	0.90 °C		
Type R	0 °C to 1760 °C	0.90 °C		
<u>PRT simulation</u> (Pt 50 to 1000)				
	- 200 °C to 200 °C	0.16 °C		
	200 °C to 600 °C	0.26 °C		
	600 °C to 850 °C	0.36 °C		



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<b>TEMPERATURE</b>			Reference meter methods in block or fluid baths:	A
Resistance thermometers	-30 °C to +140 °C	0.10 °C		
Base Metal Thermocouples	-30 °C to +140 °C	0.25 °C		
Temperature indicators with probes				
Resistance thermometers	-30 °C to +70 °C 70 °C to +140 °C	0.10 °C 0.15 °C		
Base Metal Thermocouples	-30 °C to +140 °C	0.25 °C		
Temperature probes in air	10 °C to 60 °C -5 °C to 10 °C	0.15 °C 0.22 °C	Reference meter method in environmental chamber:	
<b>HUMIDITY</b>			Reference meter methods: in environmental chamber	
Relative humidity measuring instruments	15 %rh to 90 %rh 10 °C to 15 °C 10 %rh to 90 %rh 15 °C to 40 °C	1.5 %rh	Dependant on probe length	A
Temperature probes built into humidity meters	10 °C to 40 °C -5 °C to 10 °C	0.15 °C 0.22 °C	Dependant on probe length	
Dew Point	-15 °C to 0 °C 0 °C to 20 °C 20 °C to 40 °C	0.35 °C 0.18 °C 0.21 °C		
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$