


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> CALIBRATION</p> <p>0767</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>HORIBA UK Ltd</b></p> <p>Issue No: 040      Issue date: 12 January 2026</p>	
	<p>Kyoto Close Moulton Park Industrial Park Northampton NN3 6FL</p>	<p>Contact: Mr T Lowe Tel: +44 (0) 1604 542500 E-Mail: tony.lowe@horiba.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><b>Address</b> Kyoto Close Moulton Park Industrial Park Northampton NN3 6FL</p> <p><b>Local contact</b> Mr T Lowe</p>	<p>Pressure Temperature Humidity Flow Electrical</p>	<p>Permanent</p>

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>The customer's site or premises must be suitable for the nature of the particular calibrations undertaken and will be the subject of contract review arrangements between the laboratory and the customer</p>	<p>Pressure Temperature Humidity Electrical Force Speed</p>	<p>Site</p>



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<p><b>PRESSURE</b></p> <p><u>Gas Pressure Gauge</u> Calibration of pressure indicating instruments and gauges</p> <p><u>Gas Pressure Differential</u> Calibration of pressure indicating instruments and gauges</p> <p><u>Gas Pressure Absolute</u> Calibration of pressure indicating instruments and gauges</p>	<p>-95 kPa to 0 kPa 0 kPa to 500 kPa 500 kPa to 1 MPa 1 MPa to 2 MPa</p> <p>± 3 kPa ± (3 to 12) kPa ± 2 kPa ± (2 to 20) kPa</p> <p>30 kPa to 200 kPa</p>	<p>Q [0.038 %, 89 Pa] Q [0.038 %, 97 Pa] Q [0.038 %, 151 Pa] Q [0.038 %, 210 Pa]</p> <p>Q [0.30 %, 0.84 Pa] Q [0.30 %, 0.89 Pa] Q [0.48 %, 0.86 Pa] Q [0.44 %, 6.8 Pa]</p> <p>82 Pa</p>	<p>Methods consistent with EURAMET CG17</p>	<p>Perm and site</p>
<p><b>TEMPERATURE</b></p> <p>Temperature indicating instruments with resistance thermometer sensors</p>	<p>0 °C to 100 °C</p> <p>0 °C to 100 °C</p> <p>1 °C to 60 °C</p>	<p>0.11 °C</p> <p>0.20 °C</p> <p>0.31 °C</p>	<p>Direct comparison with a reference probe using a block bath calibrator</p> <p>Direct comparison with a reference probe using a block bath calibrator</p> <p>Direct comparison with a reference probe performed in air</p>	<p>Perm</p> <p>Site</p>



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
HUMIDITY  Relative humidity instruments	1 °C to 10 °C 5 %rh to 90 %rh  10 °C to 17 °C 5 %rh to 95 %rh  17 °C to 23 °C 5 %rh to 95 %rh  23 °C to 50 °C 5 %rh to 95 %rh  50 °C to 60 °C 5 %rh to 90 %rh	2.9 %rh  2.9 %rh  1.8 %rh  2.9 %rh  2.9 %rh	Direct comparison with a reference hygrometer	Perm and site
FORCE  Dynamometer load cells in tension and compression.	500 N to 7500 N  1.5 kN to 20 kN	7.0 N  8.0 N	Calibration using masses and lever amplification	Site
SPEED  Dynamometer speed	14 km/h to 200 km/h	0.21 km/h	Calibration by diameter and rotational speed	Site
FLOW <u>Gas Flow – volume</u>  Calibration of Critical Flow Orifices  Calibration of gas dividers  Calibration of pitot tubes	400 ml/min to 1.2 l/min  5 ml/min to 50 ml/min 50 ml/min to 5 l/min  5 l/min to 30 l/min 30 l/min to 60 l/min  100 l/min to 200 l/min  200 l/min to 1000 l/min 1000 l/min to 2000 l/min 2000 l/min to 10000 l/min 10000 l/min to 30000 l/min	0.76 %  0.40 % 0.42 %  0.56 % 1.03 %  2.8 %  2.8 % 2.8 % 2.8 % 2.8 %	Calibration gas – propane (prover method)  Calibration gas – nitrogen (mass flowmeter method)  Calibration gas – nitrogen (mass flowmeter method)  Calibration gas – air (subsonic nozzle method)	Perm only



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>ELECTRICAL Generation</b>			Calibration of measuring devices by direct comparison with a reference meter or calibrator.	Perm and site
DC Voltage	0 V to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	Q [0.0059 %, 5 $\mu$ V] Q [0.0036 %, 17 $\mu$ V] Q [0.0036 %, 170 $\mu$ V] Q [0.0036 %, 1.7mV] Q [0.0036 %, 17 mV]		
DC Current	0 A to 100 mA 100 mA to 1 A 1 A to 19 A 19 A to 500 A	Q [0.0042 %, 5.6 $\mu$ A] Q [0.025 %, 50 $\mu$ A] Q [0.050 %, 8.9 mA] Q [0.38 %, 490 mA]	For the calibration of clamp on ammeters, using a 50 turn coil	
Resistance	0 $\Omega$ to 400 $\Omega$ 400 $\Omega$ to 4000 $\Omega$	Q [0.010 %, 13 m $\Omega$ ] Q [0.010 %, 140 m $\Omega$ ]		
Frequency	40 mHz to 1 kHz 1 kHz to 50 kHz	40 mHz 290 mHz		
AC Voltage	100 V to 700 V, 60 Hz	Q [0.14 %, 230 mV]		
AC Current	5 A to 60 A, 55 Hz	Q [0.058 %, 72 mA]		
<b>ELECTRICAL Measurement</b>			Using a digital multimeter	
DC Voltage	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V	Q [0.014 %, 18 $\mu$ V] Q [0.013 %, 140 $\mu$ V] Q [0.017 %, 12 mV] Q [0.017 %, 17 mV] Q [0.017 %, 130 mV]		
DC Current	100 $\mu$ A to 200 mA 2000 mA to 2 A 2 A to 10 A	Q [0.035 %, 37 $\mu$ A] Q [0.063 %, 170 mA] Q [0.18 %, 3.0 mA]		
AC Voltage	60 mV to 200 mV, 55 Hz 20 V to 200 V, 55 Hz 200 V to 700 V, 55 Hz	Q [0.13 %, 76 $\mu$ V] Q [0.13 %, 170 mV] Q [0.13 %, 410 mV]		
AC Current	2 A to 60 A, 55 Hz	Q [0.44 %, 1.1 A]	Using a shunt and digital multimeter	



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<b>ELECTRICAL</b> <u>Temperature simulation:</u> Temperature simulators and indicators, calibration by electrical simulation				
Base metal thermocouple	- 100 °C to 1370 °C	0.60 °C	Including cold junction compensation	
PRT Simulation (PT 100)	- 200 °C to 800 °C	0.12 °C		
<b>GAS CONCENTRATION</b>			Blending of CRM gases with a nitrogen base gas using a Gas Divider Checker (GDC)  MEXA and OBS analysers	Perm and site
	Concentration (molar)			
Carbon monoxide	0.018% to 9%	2.2% of conc.		
Carbon dioxide	0.038% to 19%	2.1% of conc.		
Nitric Oxide	0.0006% to 0.3%	2.2% of conc.		
Propane	0.0006% to 0.33%	2.3% of conc.		
Methane	0.0019% to 0.95%	2.3% of conc.		
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:  $Q[a, b] = [a^2 + b^2]^{1/2}$