


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0604</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Young Calibration Limited</p> <p>Issue No: 047 Issue date: 11 May 2026</p>	
	<p>5 Cecil Pashley Way Shoreham Airport Shoreham-by-Sea West Sussex BN43 5FF</p>	<p>Contact: Dr Mark Hindle Tel: +44 (0)1273 455572 E-Mail: MH@youngcalibration.co.uk Website: www.youngcalibration.co.uk</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 5 Cecil Pashley Way Shoreham Airport Shoreham-by-Sea West Sussex BN43 5FF</p> <p>Local contact Dr Mark Hindle</p>	<p>Pressure Electrical Temperature indicators - Electrical simulation Air velocity Air flow Water flow Hydrocarbon flow Temperature Humidity</p>	<p>Lab</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>Local contact Dr Mark Hindle</p>	<p>Pressure Electrical Temperature indicators - Electrical simulation Temperature Humidity</p>	<p>Site</p>



0604
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

Young Calibration Limited
Issue No: 047 Issue date: 11 May 2026

Calibration performed by the Organisation at the locations specified

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
FLOW				
Hydrocarbon oils				
Calibration of flow meters using gravimetric and reference meter methods				
Volume flow rate	0.5 l/min to 440 l/min	0.40 %	Calibrations are carried out with fluids within the viscosity range 5 to 20 cSt at fluid temperatures of up to 60 °C	Lab
Quantity of fluid passed	0.33 l to 361.7 l 361.7 l to 4 400 l (at flow rates of 0.5 l/min to 440 l/min)	0.40 % 1.0 %		
Mass flow rate	0.5 kg/min to 367.4 kg/min	0.40 %	Calibrations are carried out at pressures of up to 10 bar	
Mass of fluid passed	0.4 kg to 302 kg 302 kg to 3 674 kg (at flow rates of 0.5 kg/min to 367.4 kg/min)	0.40 % 1.0 %		
Water				
Calibration of flow meters using gravimetric and reference meter methods				
Volume flow rate	1.0 ml/hr to 2400 ml/hr 1.0 ml/hr to 2400 ml/hr	Q[0.10 %, 0.0040 ml/hr] Q[0.55 %, 0.36 ml/hr]	Gravimetric Reference meter	Lab
Quantity of fluid passed	0.04 l/min to 1 000 l/min	0.15 %		
Mass flow rate	1 g/hr to 2400 g/hr 1 g/hr to 2400 g/hr	Q[0.10 %, 0.0040 g/hr] Q[0.55 %, 0.36 g/hr]	Gravimetric Reference meter	
Mass of fluid passed	0.04 kg/min to 998 kg/min	0.15 %		
	0.25 g to 800 kg 800 kg to 9 980 kg (at flow rates of 0.04 kg/min to 998 kg/min)	0.15 % 1.0 %	Gravimetric Reference meter	



0604
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

Young Calibration Limited
Issue No: 047 Issue date: 11 May 2026

Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
Gas flow Calibration medium Air			Calibration of flow meters with an electrical or pressure output can be undertaken	
Calibration of flow meters using Sonic nozzle method				
Volume flow rate	1 ml/min to 40 ml/min 40 ml/min to 2400 l/min	Q[0.69 %,0.70 ml/min] 0.50 %	Calibrations are carried out at pressures of up to 8 bar	Lab
Quantity of gas passed	300 ml to 50000 l (at flow rates of 1 ml/min to 40 ml/min 40 ml/min to 2600 l/min)	Q[0.69 %,0.70 ml/min] 0.51 %		
Mass flow rate	0.001 2 g/min to 0.06 g/min 0.06 g/min to 2.88 kg/min	Q[0.69 %,0.84 mg/min] 0.47 %		
Mass of gas passed	0.36 g to 60.4 kg (at flow rates of 0.001 2 g/min to 0.06 g/min 0.06 g/min to 2.88 kg/min)	Q[0.69 %,0.84 mg/min] 0.49 %		
Calibration of flow meters using Turbine meter method				
Volume flow rate	10 l/s to 450 l/s	0.90 %	Calibrations are carried out at ambient conditions	
Quantity of gas passed	300 l to 540 kl (at flow rates of 10 l/s to 450 l/s)	0.90 %		
Mass flow rate	12 g/s to 0.54 kg/s	0.90 %		
Mass of gas passed	0.36 kg to 643 kg (at flow rates of 12 g/s to 0.54 kg/s)	0.90 %		
Calibration of flow meters using LDA method				
Volume flow rate	40 l/s to 1 250 l/s	Q[0.70 %, 0.030 l/s]	Calibrations are carried out at ambient conditions using a laser doppler anemometer	Lab
Quantity of gas passed	12 kl to 375 kl (at flow rates of 40 l/s to 1 250 l/s)	Q[0.70 %, 9.0 l]		
Mass flow rate	48 g/s to 1.488 kg/s	Q[0.70 %, 0.036 g/s]		
Mass of gas passed	14.28 kg to 1 785 kg (at flow rates of 48 g/s to 1.488 kg/s)	Q[0.70 %, 11 g]		



0604
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

Young Calibration Limited
Issue No: 047 Issue date: 11 May 2026

Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
AIR VELOCITY				
Pitot tubes	1.0 m/s to 80 m/s	Q[0.15 %, 0.000 20 m/s]	1) Calibrations are performed against a laser doppler anemometer, or a secondary standard where requested. 2) Pitot tube uncertainty dependant on pitot differential pressure range 3) Air velocity instruments up to 480 x 120 mm diameter (working area): uncertainty is dependent on design of instrument under caibration. Methods consistent with EURAMET CG17.	Lab
Thermal and ultrasonic anemometers	0.05 m/s to 80 m/s	Q[0.16 %, 0.000 30 m/s]		
Vane anemometers	0.1 m/s to 40 m/s	Q[0.20 %, 0.0010 m/s]		
Rotating cup anemometers	1.0 m/s to 21 m/s	0.23 %		
PRESSURE				
Gas pressure (absolute)				
Calibration of pressure indicating instruments and gauges	60 kPa to 100 kPa 75 kPa to 115 kPa	17 Pa 38 Pa	Devices with an electrical output can also be calibrated	Lab Site
Gas pressure (gauge)				
Calibration of pressure indicating instruments and gauges	-95 kPa to -5.0 kPa -5 kPa to -2.5 kPa -2.5 kPa to 0 kPa 0 Pa to 2.5 kPa 2.5 kPa to 5 kPa 5 kPa to 20 kPa 20 kPa to 120 kPa 120 kPa to 1.1 MPa 1.1 MPa to 3.5 MPa	Q[0.039 %, 13 Pa] Q[0.035 %, 0.15 Pa] Q[0.030 %, 0.18 Pa] Q[0.030 %, 0.18 Pa] Q[0.035 %, 0.15 Pa] Q[0.036 %, 9.3 Pa] 0.037 % 0.25 kPa 0.43 kPa	Absolute pressure calibrations can be undertaken using gauge pressure generation and the associated barometric pressure with the additional absolute pressure uncertainty as listed.	Lab Site
	-95 kPa to -80 kPa -80 kPa to -70 kPa -70 kPa to -5 kPa -5 kPa to -2.5 kPa -2.5 kPa to 0 kPa 0 Pa to 2.5 kPa 2.5 kPa to 5 kPa 5 kPa to 70 kPa 70 kPa to 0.25 MPa 0.25 MPa to 2 MPa 2 MPa to 10 MPa	0.26 kPa 0.16 kPa 0.14 % + 5.6 Pa Q[0.035 %, 0.15 Pa] Q[0.030 %, 0.18 Pa] Q[0.030 %, 0.18 Pa] Q[0.035 %, 0.15 Pa] Q[0.14%, 5.6 Pa] 0.16 kPa 0.85 kPa 0.44 kPa		
Hydraulic pressure (gauge)	0 kPa to 270 kPa 270 kPa to 1.6 MPa	Q[0.029 %, 0.84 kPa] Q[0.023 %, 0.90 kPa]	Oxygen-duty pressure instruments	Lab & Site
Calibration of pressure indicating instruments and gauge	0.50 MPa to 55 MPa 55 MPa to 110 MPa	Q[0.019 %, 90 Pa] 0.018 %		Lab
	0 MPa to 10 MPa 10 MPa to 99 MPa	14 kPa 55 kPa		Site



0604
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

Young Calibration Limited
Issue No: 047 Issue date: 11 May 2026

Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
Hydraulic pressure (gauge) Ctd				
Calibration of pressure indicating instruments and gauge	0 kPa to 5.5 MPa 5.5 MPa to 40 MPa 40 MPa to 70 MPa	Q[0.031 %, 11 kPa] Q[0.031 %, 11 kPa] Q[0.039%, 6.6 kPa]	Oxygen-duty pressure instruments	Lab & Site
ELECTRICAL				Lab & site
DC Voltage Generation	0 V to 330 mV 330 mV to 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 1020 V	Q[0.0079 %, 5.0 μ V] Q[0.0065 %, 8.0 μ V] Q[0.0065 %, 80 μ V] Q[0.0071 %, 800 μ V] Q[0.0075 %, 2.5 mV]	Using multifunction calibrator.	
Measurement	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[0.0047 %, 5.5 μ V] Q[0.0034 %, 34 μ V] Q[0.0033 %, 330 μ V] Q[0.0048 %, 3.3 mV] Q[0.0051 %, 31 mV]	Using digital multimeter.	
Mains Voltage Measurement Mains Voltage Frequency	200 V to 300 V Nominal 50 Hz	1.0 % 2.5 %		
DC Current Generation	0 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 2.2 A 2.2 A to 11 A	Q[0.019 %, 0.12 μ A] Q[0.016 %, 0.35 μ A] Q[0.016 %, 4.5 μ A] Q[0.041 %, 130 μ A] Q[0.076 %, 430 μ A]	Using multifunction calibrator.	
Measurement	0 mA to 30 mA 0 mA to 100 mA 0 mA to 10A	Q[0.017 %, 6.0 μ A] Q[0.060 %, 7.5 μ A] Q[0.21 %, 1.2 mA]	Using digital multimeter.	
DC Resistance	0 Ω to 33 Ω 33 Ω to 110 Ω 110 Ω to 330 Ω 330 Ω to 1.1 k Ω 1.1 k Ω to 3.3 k Ω 3.3 k Ω to 11 k Ω 11 k Ω to 33 k Ω 33 k Ω to 110 k Ω 110 k Ω to 330 k Ω 330 k Ω to 1.1 M Ω 1.1 M Ω to 3.3 M Ω 3.3M Ω to 11 M Ω 11 M Ω to 33 M Ω 33 M Ω to 110 M Ω 110 M Ω to 330 M Ω	24 m Ω 24 m Ω 60 m Ω 210 m Ω 470 m Ω 1.4 Ω 4.7 Ω 24 Ω 60 Ω 290 Ω 1.8 k Ω 11 k Ω 43 k Ω 720 k Ω 2.2 M Ω	Using multifunction calibrator.	
Measurement	0 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 100 M Ω 100 M Ω to 1 G Ω	20 m Ω 150 m Ω 1.5 Ω 15 Ω 140 Ω 5.0 k Ω Q[1.1 %, 23 k Ω] Q[3.2 %, 7.4 M Ω]	Using digital multimeter.	



0604
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

Young Calibration Limited
Issue No: 047 Issue date: 11 May 2026

Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
ELECTRICAL (continued)				Lab and site
Frequency			Using GPS disciplined oscillator and frequency counter.	
Ranges source and measure	0.5 Hz to 250 kHz	3.7 parts in 10^6	Frequency can be expressed in other units, for example RPM, at equivalent uncertainties.	
Source only	400 Hz to 800 MHz	0.12 parts in 10^6		
Elapsed time	10 s to 24 hours	Q[0.13 parts in 10^6 , 54 ms]	For calibration of timers and stopwatches.	
Electrical calibration of temperature indicators				
Ambient	15 °C to 30 °C	0.41 °C	For reporting reference junction temperature.	
Base Metal Thermocouples	-270 °C to 0 °C 0 °C to 1370 °C	0.61 °C 0.35 °C	Including reference junction compensation	
Noble Metal Thermocouples	-50 °C to +399 °C 400 °C to 1760 °C	1.1 °C 0.63 °C		
PRTs				
Generate resistance (Pt 100)	-200 °C to +850 °C	0.37 °C		
Measure resistance (Pt 100)	-200 °C to +850 °C	0.37 °C		
TEMPERATURE			By comparison with Reference thermometers	
Resistance thermometers and electronic probes with indicators	-40 °C to 20 °C 155 °C to 200 °C 0 °C	0.067 °C 0.065 °C 0.043 °C	In dry block calibrator In liquid bath	Lab and site
Base metal thermocouples	-40 °C to 150 °C 150 °C to 200 °C	0.68 °C 0.56 °C	In dry block calibrator In liquid bath	
Block Calibrators	-40 °C to +200 °C	0.062 °C		Lab and site
Liquid baths	-40 °C to +200 °C	0.062 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	
Air temperature	0 °C to 60 °C 0 °C to 60 °C	0.19 °C 0.25 °C	In air chamber In air chamber	Lab and site



0604
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

Young Calibration Limited
Issue No: 047 Issue date: 11 May 2026

Calibration performed by the Organisation at the locations specified

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
HUMIDITY				
Dew point	-20 °C to +60 °C	0.33 °C	By comparison with chilled mirror hygrometer and reference thermometers	Lab
Relative humidity	Relative Humidity derived from dew point and temperature		Achievable ranges:- 0 °C to 10 °C 20 %rh to 95 %rh	Lab
	Temperature range 0 °C to 60 °C 5 %rh to 20 %rh 20 %rh to 40 %rh 40 %rh to 60 %rh 60 %rh to 80 %rh 80 %rh to 95 %rh	0.19 °C 0.22 %rh 0.36 %rh 0.56 %rh 0.81 %rh 1.0 %rh	10 °C to 18 °C 10 %rh to 95 %rh	
	Temperature range 0 °C to 60 °C 5 %rh to 20 %rh 20 %rh to 40 %rh 40 %rh to 60 %rh 60 %rh to 80 %rh 80 %rh to 95 %rh	0.25 °C 1.4 %rh 1.5 %rh 1.8 %rh 1.8 %rh 2.7 %rh	18 °C to 60 °C 5 %rh to 95 %rh	Site

END



0604
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

Young Calibration Limited
Issue No: 047 Issue date: 11 May 2026

Calibration performed by the Organisation at the locations specified

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