Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks
FLOW Volume Flow (Natural Gas)	8 m ³ /hr to 20 m ³ /hr 20 m ³ /hr to 40 m ³ /hr 40 m ³ /hr to 400 m ³ /hr 400 m ³ /hr to 2500 m ³ /hr 2500 m ³ /hr to 6500 m ³ /hr 6500 m ³ /hr to 13000 m ³ /hr 13000 m ³ /hr to 19500 m ³ /hr	0.23 % 0.20 % 0.19 % 0.18 % 0.18 % 0.18 % 0.20 %	Calibration of devices with an electrical output may be undertaken Calibration of flow meters using reference meter methods
Mass Flow (Natural Gas)	304 kg/hr to 760 kg/hr 760 kg/hr to 1920 kg/hr 1920 kg/hr to 19200 kg/hr 19200 kg/hr to 120000 kg/hr 120000 kg/hr to 312000 kg/hr 312000 kg/hr to 624000 kg/hr 624000 kg/hr to 936000 kg/hr	0.33 % 0.33 % 0.30 % 0.30 % 0.30 % 0.30 % 0.31 %	
TEMPERATURE			
Resistance thermometers	-20 °C to 90 °C	0.022 °C	Calibrations performed within liquid baths
Temperature indicators with sensors	-20 °C to 90 °C	0.022 °C	
Liquid-in-glass thermometers	-20 °C to 90 °C	0.029 °C	Total immersion types



	Schedule of Accreditation issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK DNV Services UK Ltd Issue No: 061 Issue date: 17 April 2025				
UKAS CALIBRATION 0555 Accredited to ISO/IEC 17025:2017					
Calibration performed at main address only					
Measured Quantity	Range	Expanded Measurement	Remarks		
Instrument or Gauge		(k=2)			
DIMENSIONAL					
Orifice plates	Bore (d) diameters: 12 mm to 50 mm 50 mm to 100 mm 100 mm to 200 mm 200 mm to 650 mm Plate thickness (E) Edge thickness (e)	10 μm 10 μm 17 μm 25 μm 10 μm 25 μm	As BS EN ISO 5167-2:2022, BS EN ISO 5167-2:2003 (withdrawn), AGA Report No. 3, Part 2:2016 and ISO/TR 15377:2007 (withdrawn). All linear calibrations may be given in inch units.		

20 µm

. 25 µm

20 µm 25 µm

25 μm 15 μm

20 µm 60 minutes of arc 12 minutes of arc

10 % of reading, minimum 0.40 µm

Surface roughness of face - Ra

Flatness of face Bevel angle (α) Edge angle Edge radius (G)

Plate concentricity

Drain hole diameter:

Outside diameter of plate:

100 mm to 200 mm 200 mm to 650 mm

> 1 mm to 3 mm 3 mm to 13 mm

Methods: Unless otherwise stated, all measurements are performed by direct comparison with the indication from a calibrated reference instrument.

END



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

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DNV Services UK Ltd

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