Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0580

Accredited to ISO/IEC 17025:2005

Furness Controls Limited

Issue No: 031 **Issue date:** 08 April 2016

Beeching Road
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East Sussex
TN39 3LJ

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Calibration performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Beeching Road Bexhill East Sussex TN39 3LJ	**Local contact** Doug Walker	Flow calibration Pressure calibration Electrical Calibration	Perm
Techniparc 3 rue Boole 91240 St. Michel sur Orge France	Jean-Philippe Noblet Tel.+33 1 69460020	Flow calibration Pressure calibration Electrical Calibration	France and site
Karl Arnold Strasse 12 D-47877 Willich Munchheide (2) Germany	Karsten Bartsch Tel. +49 21 54 49 96 80	Flow calibration Pressure calibration Electrical Calibration	Germany and site

Site activities performed away from the locations listed above:

Location details		Activity	Location code
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	**Site contact:** Sarah Hedge 4 The Pavilions Amber Close Tamworth Staffordshire B77 4RP Tel: +44 (0)1827 59950	Flow calibration Pressure calibration	Site

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Remarks	Location Code
PRESSURE				
Gas pressure (gauge)				
Calibration of pressure indicating instruments and gauges Pressure equivalent calibration of Furness controls FRS 4's and other dead weight testers	-100 kPa to -10 kPa -10 kPa to 0 Pa 0 Pa to 3 kPa 3 kPa to 12 kPa 12 kPa to 30 kPa 30 kPa to 40 kPa 40 kPa to 4 MPa	0.010 % 0.010 % + 0.30 Pa 0.010 % + 0.030 Pa 0.010 % + 0.30 Pa 0.010 % + 1.0 Pa 0.010 % + 2.0 Pa 0.010 %	Calibrations of devices with an electrical output may be undertaken	Perm
Gas pressure (absolute)				
Calibration of pressure indicating instruments and gauges	0 Pa to 4 MPa	0.010 % + 10 Pa		Perm
Gas pressure (gauge)				
Calibration of pressure indicating instruments and gauges	-100 kPa to 0 Pa 0 Pa to 220 Pa 220 Pa to 2200 Pa 2.2 kPa to 22 kPa 22 kPa to 100 kPa 100 kPa to 400 kPa 400 kPa to 1.6 MPa 1.6 MPa to 4 MPa	0.25 % + 100 Pa 0.30 % + 0.10 Pa 0.30 % + 0.60 Pa 0.30 % + 6.0 Pa 0.25 % + 50 Pa 0.25 % + 200 Pa 0.25 % + 800 Pa 0.25 % + 2.0 kPa	Calibrations of devices with an electrical output may be undertaken	Site
Gas pressure (absolute)				
Calibration of pressure indicating instruments and gauges	0 Pa to 160 kPa	0.25 % + 100 Pa		Site
FLOW				
Flow Rate - Gas Volume	0.02 ml/min to 2ml/min 2 ml/min to 2000 l/min	0.75 % 0.60 %	Calibration medium Air. Calibrations up to 10 l/min can be undertaken on Nitrogen.	Perm
Gas - Volume Passed	180 l to 300 l (at flow rates of 2 l/min to 2000 l/min)	0.36 %		Perm
	0.02 ml to 6000 l (at flow rates of 0.02 ml/min to 2ml/min 2 ml/min to 2000 l/min)	 0.75 % 0.50 %		Perm

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FLOW				
Gas volume flow rate	0.04 ml/min to 0.4 ml/min 0.4 ml/min to 40 ml/min 40 ml/min to 2000 l/min	1.3 % + 0.0020 ml/min 1.3 % 1.2 %	Calibration medium Air. Calibrations of devices with an electrical output may be undertaken	Site
ELECTRICAL				
DC Voltage Measurement	0 V to 10 V 10 V to 55 V	30 ppm + 20 µV 30 ppm + 200 µV		Perm France Germany
DC Current Measurement	0 A to 10 mA 10 mA to 100 mA	100 ppm + 0.30 µA 100 ppm + 3.0 µA		Perm France Germany
French Capability			Calibrations of devices with an electrical output may be undertaken	France
FLOW				
Flow Rate - Gas Volume	0.04 ml/min to 0.4 ml/min 0.4 ml/min to 40 ml/min 40 ml/min to 400 l/min	1.1 % + 0.0010 ml/min 1.1 % 1.0 %	Calibration medium Air	
PRESSURE				
<u>Gas pressure (gauge)</u>				
Calibration of pressure indicating instruments and gauges Furness Controls FRS 4s, pressure equivalent	-100 kPa to -10 kPa -10 kPa to 0 Pa 0 Pa to 3 kPa 3 kPa to 12 kPa 12 kPa to 30 kPa 30 kPa to 40 kPa 40 kPa to 100 kPa 100 kPa to 1.6 MPa 1.6 MPa to 4 MPa	0.10 % + 100 Pa 0.014 % + 0.50 Pa 0.014 % + 0.040 Pa 0.014 % + 0.50 Pa 0.014 % + 1.0 Pa 0.014 % + 2.0 Pa 0.10 % + 20 Pa 0.10 % + 150 Pa 0.10 % + 200 Pa		
<u>Gas pressure (absolute)</u>				
Calibration of pressure indicating instruments and gauges	1 kPa to 160 kPa 160 kPa to 200 kPa	0.10 % + 100 Pa 0.10 % + 200 Pa		

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German Capability			Calibrations of devices with an electrical output may be undertaken	Germany
FLOW				
Flow Rate - Gas Volume	0.04 ml/min to 0.4 ml/min 0.4 ml/min to 40 ml/min 40 ml/min to 400 l/min	1.1 % + 0.0010 ml/min 1.1 % 1.0 %	Calibration medium Air	
PRESSURE				Germany
Gas pressure (gauge)				
Calibration of pressure indicating instruments and gauges Furness controls FRS 4's. pressure equivalent	-100 kPa to -10 kPa -10 kPa to 0 Pa 0 Pa to 3 kPa 3 kPa to 12 kPa 12 kPa to 30 kPa 30 kPa to 40 kPa 40 kPa to 400 kPa 400 kPa to 1.6 MPa	0.15 % + 100 Pa 0.014 % + 0.50 Pa 0.014 % + 0.040 Pa 0.014 % + 0.50 Pa 0.014 % + 1.0 Pa 0.014 % + 2.0 Pa 0.15 % + 50 Pa 0.15 % + 150 Pa		
Gas pressure (absolute)				
Calibration of pressure indicating instruments and gauges	1 kPa to 120 kPa	0.15 % + 100 Pa		

END