

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0580</p> <p>Accredited to ISO/IEC 17025:2005</p>	Furness Controls Limited	
	Issue No: 036 Issue date: 13 September 2018	Contact: Mr D B Walker Tel: +44 (0)1424-819980 E-Mail: calibration@furness-controls.com Website: www.furness-controls.com
Beeching Road Bexhill East Sussex TN39 3LG		
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	Thierry Jéhanno 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



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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				
<u>Gas pressure (gauge)</u>				
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
<u>Gas pressure (absolute)</u>				
Calibration of pressure indicating instruments and gauges	0 Pa to 4 MPa	0.010 % + 10 Pa		Perm
<u>Gas pressure (gauge)</u>				
Calibration of pressure indicating instruments and gauges	-100 kPa to -24 kPa -24 kPa to -10 kPa -10 kPa to -2.4 kPa -2.4 kPa to -1 kPa -1 kPa to 1 kPa 1 kPa to 2.4 kPa 2.4 kPa to 10 kPa 10 kPa to 24 kPa 24 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 % + 4.0 Pa 0.30 % + 0.70 Pa 0.30 % + 0.40 Pa 0.30 % + 0.070 Pa 0.30 % + 0.40 Pa 0.30 % + 0.70 Pa 0.30 % + 4.0 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
<u>Gas pressure (absolute)</u>				
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 500 l/min 500 l/min to 2000 l/min	0.65 % 0.80 %	Calibration medium Air. Calibrations up to 10 l/min can be undertaken on Nitrogen.	Perm
Gas - Volume Passed (at flow rates of 2 l/min to 500 l/min)	10 l to 200 l 200 l to 10000 l	0.36 % 0.65 %		Perm



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FLOW Gas volume flow rate	0.04 ml/min to 0.4 ml/min 0.4 ml/min to 500 l/min 500 l/min to 2000 l/min	1.2 % + 0.0014 ml/min 1.2 % 1.3 %	Calibration medium Air. Calibrations of devices with an electrical output may be undertaken	Site
ELECTRICAL DC Voltage Measurement	0 V to 11 V 11 V to 55 V	35 ppm + 30 μ V 35 ppm + 300 μ V		Perm France Germany
DC Current Measurement	0 A to 110 mA	100 ppm + 1.0 μ A		Perm France Germany
RESISTANCE Measurement	0 Ω to 1.1 k Ω	150 ppm + 5.0 m Ω		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 300 l/min	0.95 % + 0.0010 ml/min 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 400 kPa 400 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 % + 50 Pa 0.10 % + 200 Pa 0.10 % + 800 Pa 0.10 % + 2 kPa		
<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 500 l/min	0.95 % + 0.0010 ml/min 1.0 %	Calibration medium Air	
PRESSURE				Germany
<u>Gas pressure (gauge)</u>				
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 % + 200 Pa 0.15 % + 800 Pa		
<u>Gas pressure (absolute)</u>				
Calibration of pressure indicating instruments and gauges	1 kPa to 160 kPa	0.10 % + 100 Pa		
END				