


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>UKAS CALIBRATION</p> <p>0580</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Furness Controls Limited</h3>	
	<p>Issue No: 22</p>	<p>Issue date: 01 March 2010</p>
<p>Beeching Road Bexhill East Sussex TN39 3LJ</p>	<p>Contact: Mr D Walker Tel: +44 (0)1424-730316 Fax: +44 (0)1424-730317 E-Mail: calibration@furness-controls.com Website: www.furness-controls.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>Address Beeching Road Bexhill East Sussex TN39 3LJ</p> <p>Local contact Doug Walker</p>	<p>Flow calibration Pressure calibration Electrical Calibration</p>	Perm
<p>Techniparc 3 rue Boole 91240 St. Michel sur Orge France</p> <p>Jean-Philippe Noblet Tel.+33 1 69460020</p>	<p>Flow calibration Pressure calibration Electrical Calibration</p>	France and site
<p>Karl Arnold Strasse 12 D-47877 Willich Munchheide (2) Germany</p> <p>Karsten Bartsch Tel. +49 21 54 49 96 80</p>	<p>Flow calibration Pressure calibration Electrical Calibration</p>	Germany and site

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Customers premises - any</p> <p>Site contact: Sarah Hedge 4 The Pavilions Amber Close Tamworth Staffordshire B77 4RP</p> <p>Tel: 01827 59950</p>	<p>Flow calibration Pressure calibration</p>	Site



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability 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	-10 kPa to 0 0 to 3 kPa 3 kPa to 12 kPa 12 kPa to 30 kPa 30 kPa to 40 kPa 40 kPa to 4 MPa	0.01% + 0.3 Pa 0.01% + 0.03 Pa 0.01% + 0.3 Pa 0.01% + 1 Pa 0.01% + 2 Pa 0.01%	Calibrations of devices with an electrical output may be undertaken	Perm
<u>Gas pressure (absolute)</u> Calibration of pressure indicating instruments and gauges	0 to 130 kPa	0.01% + 5 Pa	Absolute instruments can be calibrated over the gauge pressure range using barometric pressure measurement with an additional uncertainty of 12 Pa	Perm
<u>Gas pressure (gauge)</u> Calibration of pressure indicating instruments and gauges	0 to 200 Pa 200 Pa to 2000 Pa 2kPa to 20 kPa 20 kPa to 100 kPa 100 kPa to 400 kPa 400 kPa to 1.6 MPa 1.6 MPa to 4 MPa	0.3% + 0.1 Pa 0.3% + 0.6 Pa 0.3% + 6 Pa 0.25% + 50 Pa 0.25% + 200 Pa 0.25% + 500 Pa 0.25% + 2 kPa		Site
<u>Gas pressure (absolute)</u> Calibration of pressure indicating instruments and gauges	0 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% 0.5%		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% 0.5%		Perm
Gas volume flow rate	0.2 ml/min to 40 ml/min 40 ml/min to 2000 l/min	1.2% 1%		Site



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ELECTRICAL DC Voltage Measurement	0 to 10 V 10 V to 55 V	30 ppm + 20 μ V 30 ppm + 200 μ V		UK, France, Germany
DC Current Measurement	0 to 10 mA 10 mA to 100 mA	100 ppm + 0.3 μ A 100 ppm + 3 μ A		UK, France, Germany
French Capability			Calibrations of devices with an electrical output may be undertaken	France
FLOW				
Flow Rate - Gas Volume	0.2 ml/min to 40 ml/min 40 ml/min to 400 l/min	1.2% 1%		
PRESSURE				
<u>Gas pressure (gauge)</u>				
Calibration of pressure indicating instruments and gauges Furness controls FRS 4's. pressure equivalent	0 to 3.2 kPa 3.2 kPa to 12 kPa 12 kPa to 30 kPa 30 kPa to 40 kPa 40 kPa to 1.6 MPa 1.6 MPa to 4 MPa	0.012% + 0.035 Pa 0.012% + 0.4 Pa 0.012% + 1 Pa 0.012% + 2 Pa 0.05% + 0.6 kPa 0.12% + 1.5 kPa		
<u>Gas pressure (absolute)</u>				
Calibration of pressure indicating instruments and gauges	0 to 140 kPa	0.03% + 200 Pa		
German Capability			Calibrations of devices with an electrical output may be undertaken	Germany
FLOW				
Flow Rate - Gas Volume	4 ml/min to 40 ml/min 40 ml/min to 400 l/min	1.2 % 1%		
PRESSURE				
<u>Gas pressure (gauge)</u>				
Calibration of pressure indicating instruments and gauges Furness controls FRS 4's. pressure equivalent	0 to 3.2 kPa 3.2 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	0.013% + 0.035 Pa 0.012% + 0.5 Pa 0.012% + 1 Pa 0.012% + 2 Pa 0.1% + 1 kPa 0.1% + 2.2 kPa		



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PRESSURE <u>Gas pressure (absolute)</u> Calibration of pressure indicating instruments and gauges	0 to 120 kPa 120 kPa to 160 kPa	0.075% + 50 Pa 0.1% + 50 Pa		
END				