


Schedule of Accreditation

issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 0822 Accredited to ISO/IEC 17025:2005	Chamois Metrology Limited Issue No: 038 Issue date: 25 January 2012	
	Unit 8 The Centre Holywell Business Park Northfield Road Southam Warwickshire CV47 0FP	Contact: Mr N Morgan Tel: +44 (0)1926 812066 Fax: +44 (0)1926 813569 E-Mail: neil.morgan@chamois.net Website: www.chamois.net
Calibration performed by the Organisations at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Address Unit 8 The Centre Holywell Business Park Northfield Road SOUTHAM Warwickshire CV47 0FP</td> <td style="width: 50%;">Local contact Mr N Morgan</td> </tr> </table>	Address Unit 8 The Centre Holywell Business Park Northfield Road SOUTHAM Warwickshire CV47 0FP	Local contact Mr N Morgan	<u>Mass calibration</u> <u>Electrical calibration</u> <u>Pressure calibration</u> <u>Temperature calibration</u>	UK
Address Unit 8 The Centre Holywell Business Park Northfield Road SOUTHAM Warwickshire CV47 0FP	Local contact Mr N Morgan			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Address Classic Metrology Unit K2 M7 Business Park Newhall Naas County Kildare Ireland</td> <td style="width: 50%;">Local contact Mr P Kinsella Tel. +353 (0) 45 896660 Fax. +353 (0) 45 896713 Email: info@classicmetrology.ie</td> </tr> </table>	Address Classic Metrology Unit K2 M7 Business Park Newhall Naas County Kildare Ireland	Local contact Mr P Kinsella Tel. +353 (0) 45 896660 Fax. +353 (0) 45 896713 Email: info@classicmetrology.ie	<u>Pressure calibration</u> <u>Electrical calibration</u> <u>Temperature calibration</u>	IRE
Address Classic Metrology Unit K2 M7 Business Park Newhall Naas County Kildare Ireland	Local contact Mr P Kinsella Tel. +353 (0) 45 896660 Fax. +353 (0) 45 896713 Email: info@classicmetrology.ie			

Site activities performed away from the locations listed above:

Location details	Activity	Location code		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"> 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 </td> <td style="width: 50%;">Local contact Mr N Morgan</td> </tr> </table>	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	Local contact Mr N Morgan	<u>Pressure calibration</u>	Site
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	Local contact Mr N Morgan			



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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
<p>PRESSURE Gas pressure (absolute)</p> <p>Calibration of pressure measuring instruments and gauges</p> <p>Gas pressure (gauge)</p> <p>Calibration of pressure measuring instruments and gauges and "Pressure equivalent" calibration of Dead Weight Testers (pressure balances supplied with an associated mass set) and Effective area calibration of Dead Weight Testers</p> <p>Gas pressure (differential)</p> <p>Calibrations of differential pressure devices with low and high pressure ports at a common mode pressure of 3.5kPa</p> <p>Calibration of pressure indicating instruments and gauges</p>	<p>2 Pa to 1.4 kPa 1.4 kPa to 200 kPa 200 kPa to 345 kPa 345 kPa to 27.6 MPa 27.6 MPa to 40 MPa</p> <p>- 100 kPa to - 3.5 kPa 0 Pa to 1.4 kPa 1.4 kPa to 200 kPa 200 kPa to 345 kPa 345 kPa to 27.6 MPa 27.6 MPa to 40 MPa</p> <p>0 Pa to 7 kPa (Line pressure 3.5 kPa)</p> <p>0 Pa to (7 - line pressure) MPa (Line pressure 200 kPa to 7 MPa)</p> <p>7 MPa to (27.6 - line pressure) MPa (Line pressure 7 MPa to 27.6 MPa)</p> <p>0 Pa to (41.4 - line pressure) MPa (Line pressure 27.6 MPa to 41.4 MPa)</p>	<p>20 % 0.0035 % + 2.0 Pa 0.0035 % + 15 Pa 0.0027 % + 15 Pa 0.0045 % + 15 Pa</p> <p>0.0035 % 0.0040 % + 0.50 Pa 0.0030 % + 0.040 Pa 0.0035 % 0.0027 % 0.0045 %</p> <p>0.010 % + 0.060 Pa</p> <p>0.000060 % of line pressure, plus 0.0035 % of differential pressure, plus 5.0 Pa</p> <p>0.000060 % of line pressure, plus 0.0035 % of differential pressure, plus 10 Pa</p> <p>0.000065 % of line pressure, plus 0.0060 % of differential pressure, plus 16 Pa</p>	<p>Calibration of pressure measuring devices with an electrical output may be undertaken.</p> <p>Calibrations may also be performed over an environmental temperature range of: + 20 °C to + 150 °C ± 1 °C Additional pressure uncertainty + 30 ppm + 23 Pa</p> <p>Differential pressure cells may be calibrated using digital communications protocols</p>	<p>UK & Site</p>



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Hydraulic pressure (gauge) Calibration of pressure measuring instruments and gauges. "Pressure equivalent" calibration of Dead Weight Testers (Pressure balance with associated mass set). Effective area calibration of Dead Weight Testers.	206 kPa to 7 MPa 7 MPa to 172 MPa 172 MPa to 345 MPa	0.0040 % + 16 Pa 0.0040 % + 0.24 ppm/MPa 0.0070 %		
Hydraulic pressure (absolute) Calibration of pressure measuring instruments and gauges.	206 kPa to 7 MPa 7 MPa to 172 MPa 172 MPa to 345 MPa	0.0040 % + 28 Pa 0.0040 % + 0.24 ppm/MPa + 15 Pa 0.0070 %		
Hydraulic pressure (differential) Calibration of pressure indicating instruments and gauges	0 Pa to (172 - line pressure) MPa (Line pressure 1.7 MPa to 172 MPa)	0.000060 % of line pressure plus 0.0055 % of differential pressure plus 20 Pa		
MASS	1 mg to 205 g 205 g to 510 g 510 g to 2.3 kg 2.3 kg to 26 kg	7.0 ppm + 0.16 mg 7.0 ppm + 0.25 mg 7.0 ppm + 0.30 mg 7.0 ppm + 3.0 mg		UK
ELECTRICAL				UK
DC Voltage	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1 kV	15 ppm + 1.5 μ V 12 ppm + 2.0 μ V 12 ppm + 30 μ V 16 ppm + 1.2 mV 16 ppm + 12 mV		
DC Current	0 μ A to 60 μ A 60 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 6 mA 6 mA to 20 mA 20 mA to 100 mA 100 mA to 202 mA 202 mA to 2.02 A 2.02 A to 20 A 100 mA to 1 A 1 A to 10 A 10 A to 30 A 20 A to 1000 A	53 ppm + 30 nA 53 ppm + 30 nA 53 ppm + 50 nA 53 ppm + 120 nA 40 ppm + 150 nA 40 ppm + 150 nA 62 ppm + 5.5 μ A 90 ppm + 72 μ A 330 ppm + 8.0 mA 250 ppm + 150 μ A 500 ppm + 1.0 mA 500 ppm + 3.0 mA 0.22 % + 100 mA	Using nominal 50 Ω shunt Using nominal 50 Ω shunt Using nominal 50 Ω shunt Using nominal 50 Ω shunt Using nominal 50 Ω shunt Using nominal 10 Ω shunt Generate only Generate only Generate only Measurement only Measurement only Measurement only Simulation using multi turn coil	UK



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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k = 2$)	Remarks	Location Code
DC Resistance	0 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2 k Ω 2 k Ω to 20 k Ω 20 k Ω to 200 k Ω 200 k Ω to 2 M Ω 2 M Ω to 20 M Ω 20 M Ω to 200 M Ω 200 M Ω to 1 G Ω	15 ppm + 20 $\mu\Omega$ 20 ppm + 150 $\mu\Omega$ 20 ppm + 1.5 m Ω 20 ppm + 15 m Ω 20 ppm + 100 m Ω 20 ppm + 1.5 Ω 40 ppm + 20 Ω 400 ppm + 500 Ω 0.35 % + 12 k Ω		
AC VOLTAGE	1 mV to 200 mV 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 200 mV to 2 V 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 500 kHz 2 V to 20 V 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 20 V to 200 V 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 60 kHz	180 ppm + 16 μ V 140 ppm + 16 μ V 350 ppm + 16 μ V 850 ppm + 20 μ V 150 ppm + 40 μ V 120 ppm + 40 μ V 280 ppm + 40 μ V 600 ppm + 120 μ V 2.0 % + 15 mV 150 ppm + 260 μ V 150 ppm + 260 μ V 280 ppm + 330 μ V 600 ppm + 300 mV 150 ppm + 7.0 mV 150 ppm + 7.0 mV 280 ppm + 7.0 mV 600 ppm + 15 mV		UK
AC CURRENT	25 μ A to 200 μ A 40 Hz to 45 Hz 45 Hz to 1 kHz 200 μ A to 2 mA 40 Hz to 45 Hz 45 Hz to 1 kHz 2 mA to 20 mA 40 Hz to 45 Hz 45 Hz to 1 kHz 20 mA to 200 mA 40 Hz to 45 Hz 45 Hz to 1 kHz	250 ppm + 25 mV 400 ppm + 30 mV 0.17 % + 410 nA 0.080 % + 390 nA 0.18 % + 1.0 μ A 0.075 % + 0.70 μ A 0.18 % + 1.1 μ A 0.073 % + 7.4 μ A 0.18 % + 120 μ A 0.077 % + 86 μ A		UK



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AC CURRENT (cont'd)	200 mA to 2 A 40 Hz to 45 Hz 45 Hz to 1 kHz	0.18 % + 1.1 μ A 0.085 % + 0.77 μ A		
	200 mA to 20 A 40 Hz to 45 Hz 45 Hz to 1 kHz	0.16 % + 11 mA 0.037 % + 6.6 mA		
	20 A to 100 A @ 50 Hz	0.22 % + 100 mA	Simulation using a multi turn coil	
	100 A to 1000 A @ 50 Hz	0.22 % + 400 mA		
CAPACITANCE Sourcing only	1 nF 10 nF 20 nF 50 nF 100 nF 1 μ F 10 μ F 100 μ F 1 mF 10 mF	29 pF 61 pF 99 pF 220 pF 370 pF 5.1 nF 78 nF 770 nF 12 μ F 120 μ F		UK
ELECTRICAL SIMULATION OF TEMPERATURE				UK
Base Metal Thermocouples Noble Metal Thermocouples Type B (Noble)	- 200 °C to + 1400 °C 500 °C to 1800 °C 500 °C to 1800 °C	0.12 °C 0.14 °C 0.30 °C	Excluding automatic CJC	
Base Metal Thermocouples Noble Metal Thermocouples Type B (Noble)	- 200 °C to + 1400 °C 500 °C to 1800 °C 500 °C to 1800 °C	0.27 °C 0.29 °C 0.45 °C	Including automatic CJC	
Pt 100 resistance thermometer simulation	- 200 °C to + 266 °C 266 °C to 830 °C	0.012 °C 0.022 °C		
FREQUENCY				UK
Generation Measurement	10 MHz Clock frequency 1 Hz to 60 MHz 10 mHz to 60 MHz	3.0 parts in 10^{10} 5.0 parts in 10^8 5.0 parts in 10^8 + 1.0 mHz	Frequency may also be expressed in terms of time; 1/f, for repetitive signals or in other units such as revolutions per minute.	
TIME INTERVAL	0 s to 1 day	100 ms	Manually triggered single events.	
RPM	60 RPM to 60000 RPM	50 ppm + 0.01 RPM	Generate	UK



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TEMPERATURE				
Temperature indicators and recorders, with temperature sensor(s)	- 15 °C to 130 °C	0.080 °C		UK
Resistance thermometers	- 15 °C to 130 °C	0.080 °C		
Capability at Classic Metrology				
TEMPERATURE				IRE
Temperature indicators and recorders, with temperature sensor(s)	0.01 °C (Water Triple Point) - 80 °C to + 100 °C 100 °C to 280°C	0.0030 °C 0.019 °C 0.034 °C		
Platinum Resistance Thermometers (4 wire)	0.01 °C (Water Triple Point) - 80 °C to + 100 °C 100 °C to 280°C	0.0030 °C 0.019 °C 0.034 °C		
Metal Block Calibrators and portable liquid baths	- 80 °C to + 100 °C 100 °C to 280 °C 280 °C to 420 °C 420 °C to 660 °C 0 °C	0.030 °C 0.036 °C 0.15 °C 0.15 °C 0.020 °C	Suitable zero reference baths	
PRESSURE				IRE
Gas pressure (absolute)				
Calibration of pressure measuring instruments and gauges	2 kPa to 35 kPa 35 kPa to 300 kPa 300 kPa to 600 kPa 600 kPa to 10 MPa	0.0060 % + 2.0 Pa 0.0070 % + 2.0 Pa 0.0065 % + 20 Pa 0.0050 % + 20 Pa		
Gas pressure (gauge)				
Calibration of pressure measuring instruments and gauges	- 95 kPa to - 34.5 kPa - 34.5 kPa to - 2 kPa 0 Pa to 2 kPa 2 kPa to 35 kPa 35 kPa to 200 kPa 200 kPa to 500 kPa 500 kPa to 10 MPa	0.0075 % 0.0060 % + 0.20 Pa 0.0075 % + 1.0 Pa 0.0060 % + 0.20 Pa 0.0070 % 0.0065 % 0.0050 %		
Gas pressure (differential)				
Calibrations of differential pressure devices with low and high pressure ports at a common mode pressure of 3.5 kPa	0 Pa to 7 kPa (Line pressure 3.5 kPa)	0.030 % + 0.080 Pa	Calibration of pressure measuring devices with an electrical output may be undertaken.	



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Hydraulic pressure (gauge) Calibration of pressure measuring instruments and gauges	358 kPa to 3.5 MPa 3.5 MPa to 111.5 MPa	0.0090 % + 30 Pa 0.0075 %		IRE
Hydraulic pressure (absolute) Calibration of pressure measuring instruments and gauges	458 kPa to 3.6 MPa 3.6 MPa to 111.6 MPa	0.0090 % + 50 Pa 0.0075 % + 20 Pa		
ELECTRICAL				
DC VOLTAGE	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1 kV	15 ppm + 3.0 μ V 12 ppm + 4.0 μ V 12 ppm + 40 μ V 16 ppm + 2.0 mV 16 ppm + 4.0 mV		IRE
DC CURRENT	0 mA to 4 mA 4 mA to 40 mA 40 to 100 mA	50 ppm + 50 nA 50 ppm + 100 nA 50 ppm + 400 nA	Using nominal 50 Ω shunt Using nominal 50 Ω shunt Using nominal 50 Ω shunt	IRE
Generation only	100 mA to 202 mA 202 mA to 2.02 A 2.02 A to 20 A 20 A to 1500 A	130 ppm + 6.6 μ A 150 ppm + 180 μ A 420 ppm + 1.5 mA 0.22 % + 100 mA	Simulation using a multi turn coil	
DC RESISTANCE	0 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2 k Ω 2 k Ω to 20 k Ω 20 k Ω to 200 k Ω 200 k Ω to 2 M Ω 2 M Ω to 20 M Ω 20 M Ω to 200 M Ω 200 M Ω to 1 G Ω	30 ppm + 310 μ Ω 20 ppm + 250 μ Ω 20 ppm + 3.0 m Ω 20 ppm + 30 m Ω 20 ppm + 300 m Ω 30 ppm + 3.0 Ω 35 ppm + 350 Ω 500 ppm + 3.0 k Ω 0.35 % + 600 k Ω		IRE
AC VOLTAGE	20 mV to 200 mV 20 Hz to 40 Hz 40 Hz to 2 kHz 2 kHz to 10 kHz	150 ppm + 30 μ V 120 ppm + 25 μ V 120 ppm + 25 μ V		IRE
AC VOLTAGE	200 mV to 2 V 20 Hz to 40 Hz 40 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 100 kHz	150 ppm + 100 μ V 100 ppm + 100 μ V 100 ppm + 100 μ V 600 ppm + 250 μ V		
AC VOLTAGE	2 V to 20 V 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 100 kHz	120 ppm + 3.0 mV 250 ppm + 2.0 mV 600 ppm + 3.0 mV		IRE



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AC VOLTAGE (cont'd)	20 V to 200 V 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 100 kHz	300 ppm + 20 mV 100 ppm + 20 mV 600 ppm + 120 mV		IRE
	200 V to 1 kV 55 Hz to 10 kHz	100 ppm + 650 mV		
AC CURRENT				
Generation	25 μ A to 202 μ A 40 Hz to 45 Hz 45 Hz to 999 Hz	0.28 % + 420 nA 0.099 % + 390 nA		
	202 μ A to 2.02 mA 40 Hz to 45 Hz 45 Hz to 999 Hz	0.22 % + 1.2 μ A 0.094 % + 0.80 μ A		
	2.02 mA to 20.2 mA 40 Hz to 45 Hz 45 Hz to 999 Hz	0.23 % + 12 μ A 0.094 % + 7.9 μ A		
	20.2 mA to 202 mA 40 Hz to 45 Hz 45 Hz to 999 Hz	0.22 % + 120 μ A 0.94 % + 90 μ A		
	202 mA to 2.02 A 40 Hz to 45 Hz 45 Hz to 999 Hz	0.25 % + 1.2 mA 0.11 % + 0.11 mA		
	2.02 A to 20 A 40 Hz to 45 Hz 45 Hz to 999 Hz	0.34 % + 13 mA 0.073 % + 4.4 mA		
	20 A to 100 A 40 Hz to 60 Hz 100 A to 1500 A 40 Hz to 60 Hz	0.25 % + 100 mA 0.25 % + 400 mA	Simulation using a multi turn coil	
CAPACITANCE				IRE
Generation	1 nF 10 nF 20 nF 50 nF 100 nF 1 μ F 10 μ F 100 μ F 1 mF 10 mF	29 pF 58 pF 92 pF 190 pF 360 pF 5.1 nF 74 nF 840 nF 13 μ F 130 μ F		



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FREQUENCY	0.2 Hz to 10 Hz 10 Hz to 10 MHz 10 MHz to 50 MHz	7.0 ppm + 2.0 mHz 1.0 ppm + 2.0 mHz 7.0 ppm + 2.0 mHz	Frequency may also be expressed in terms of time; 1/f, for repetitive signals or in other units such as revolutions per minute.	IRE
RPM (Revolutions per minute)	2 rpm to 10 rpm 10 rpm to 100 rpm 100 rpm to 1000 rpm 1000 rpm to 100000 rpm 100000 rpm to 100000 rpm	20 ppm + 0.00050 rpm 20 ppm + 0.0020 rpm 20 ppm + 0.020 rpm 20 ppm + 0.20 rpm 20 ppm + 2.0 ppm		IRE
ELECTRICAL SIMULATION OF TEMPERATURE				IRE
Base Metal Thermocouples Noble Metal Thermocouples Type B (Noble)	- 200 °C to + 1400 °C 500 °C to 1800 °C 500 °C to 1800 °C	0.16 °C 0.18 °C 0.38 °C	Excluding automatic CJC	
Base Metal Thermocouples Noble Metal Thermocouples Type B (Noble)	- 200 °C to 1400 °C 500 °C to 1800 °C 500 °C to 1800 °C	0.31 °C 0.33 °C 0.53 °C	Including automatic CJC	
Pt 100 resistance thermometer simulation	- 200 °C to 266 °C 266 °C to 830 °C	0.015 °C 0.025 °C		
TIME INTERVAL	0 to 1 day	20 ppm + 100 ms	Manually triggered single events.	IRE
TEMPERATURE	15 °C to 28 °C 0 °C	0.14 °C 0.14 °C	Supporting measurement for reporting ambient temperature or cold junction reference.	IRE
END				