

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p style="margin: 0;">0600</p> <p style="margin: 0;">Accredited to ISO/IEC 17025:2005</p>	<h3 style="margin: 0;">CCPI Europe Ltd</h3> <p style="margin: 0;">Issue No: 018 Issue date: 14 July 2011</p>	
	<p>Temperature Technology Centre Vector 31 Business Park Waleswood Way Wales Bar Sheffield South Yorkshire S26 5NU</p>	<p>Contact: Mr P Williams Tel: +44 (0)1909 775 333 Fax: +44 (0)1909 772 225 E-Mail: lab@ccpi-europe.com Website: www.ccpi-europe.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		
<table style="width: 100%; border: none;"> <tr> <td style="width: 35%;">Address Temperature Technology Centre Vector 31 Business Park Waleswood Way Wales Bar Sheffield South Yorkshire S26 5NU</td> <td style="width: 35%;">Local contact Mr Phil Williams Tel: +44 (0)1909 775 333 Fax: +44 (0)1909 772 225 Email: lab@ccpi-europe.com Website: www.ccpi-europe.com</td> </tr> </table>	Address Temperature Technology Centre Vector 31 Business Park Waleswood Way Wales Bar Sheffield South Yorkshire S26 5NU	Local contact Mr Phil Williams Tel: +44 (0)1909 775 333 Fax: +44 (0)1909 772 225 Email: lab@ccpi-europe.com Website: www.ccpi-europe.com	Electrical Temperature	P
Address Temperature Technology Centre Vector 31 Business Park Waleswood Way Wales Bar Sheffield South Yorkshire S26 5NU	Local contact Mr Phil Williams Tel: +44 (0)1909 775 333 Fax: +44 (0)1909 772 225 Email: lab@ccpi-europe.com Website: www.ccpi-europe.com			

Site activities performed away from the locations listed above:

Location details	Activity	Location code		
<table style="width: 100%; border: none;"> <tr> <td style="width: 35%;">The customers' 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: 35%;">Contact as above</td> </tr> </table>	The customers' 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.	Contact as above	Electrical Pressure Temperature	S
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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
ELECTRICAL				
DC Voltage	0 mV to 100 mV 100 mV to 1 V 1 V to 30 V	20 ppm + 1.0 μ V 30 ppm + 1.0 μ V 30 ppm		P
	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V	90 ppm + 5.0 μ V 70 ppm + 10 μ V 70 ppm		S
DC Current	0 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100.0 mA	150 ppm + 2.0 nA 150 ppm + 20 nA 150 ppm + 250 nA 300 ppm		P
	0 mA to 10 mA 10 mA to 100 mA	750 ppm + 2.5 μ A 800 ppm + 6.0 μ A		S
Electrical calibration of temperature indicators, controllers and recorders for the following sensors:				P
Nobel metal thermocouples	- 40 $^{\circ}$ C to 1800 $^{\circ}$ C	0.30 $^{\circ}$ C	with cold junction compensation	P
	- 40 $^{\circ}$ C to 1800 $^{\circ}$ C	1.0 $^{\circ}$ C	with cold junction compensation	S
Base metal thermocouples	- 250 $^{\circ}$ C to 1370 $^{\circ}$ C	0.25 $^{\circ}$ C	with cold junction compensation	P
	- 250 $^{\circ}$ C to 1370 $^{\circ}$ C	0.80 $^{\circ}$ C	with cold junction compensation	S
Cold Junction Measurement	Normal Ambient 18 $^{\circ}$ C to 22 $^{\circ}$ C	0.5 $^{\circ}$ C		P
Time Interval	0 s to 120 minutes	3.0 s		S
PRESSURE				
Gauge, gas pressure	0 kPa to 200 kPa (2000 mbar)	2.0 kPa (20 mbar)		S
TEMPERATURE				
Resistance thermometers	- 196 $^{\circ}$ C - 80 $^{\circ}$ C to 300 $^{\circ}$ C 300 $^{\circ}$ C to 525 $^{\circ}$ C Triple Point of Water (0.01 $^{\circ}$ C)	0.015 $^{\circ}$ C 0.015 $^{\circ}$ C 0.020 $^{\circ}$ C 0.0040 $^{\circ}$ C	2, 3 and 4 Wire	P
	- 30 $^{\circ}$ C to 0 $^{\circ}$ C Ice Point 0 $^{\circ}$ C 20 $^{\circ}$ C to 200 $^{\circ}$ C	0.40 $^{\circ}$ C 0.15 $^{\circ}$ C 0.20 $^{\circ}$ C		S



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TEMPERATURE (continued)				
Platinum thermocouples	200 °C to 525 °C 0 °C to 1100 °C 1100 °C to 1350 °C 1350 °C to 1600 °C	0.20 °C 0.50 °C 0.80 °C 1.7 °C		P
	<i>Fixed point calibrations</i> FP aluminium (660.323 °C) FP gold (1064.18 °C) MP Co-C eutectic (1324.29 °C) MP Palladium (1553.5 °C)	0.40 °C 0.40 °C 0.65 °C 1.4 °C	FP = Freezing Point MP = Melting Point	P
	0 °C to 1100°C 1100 °C to 1350 °C 1350 °C to 1600°C	1.5 °C 2.5 °C 3.0 °C		S
Other thermocouples	- 196 °C - 80 °C to 525 °C 525 °C to 1000 °C 1000 °C to 1350 °C	0.20 °C 0.20 °C 1.0 °C 1.5 °C		P
	0 °C to 200 °C 200 °C to 600 °C 600 °C to 1000 °C 1000 °C to 1350 °C	0.50 °C 1.5 °C 2.0 °C 2.7 °C		S
Compensating and extension cables	- 20 °C to 200 °C 0 °C to 200 °C	0.20 °C 0.50 °C		P S
Electronic thermometers with sensors, analogue and digital	Range as per sensors	As for sensors		P and S
Metal block calibrators	- 40 °C to 250 °C 250 °C to 660 °C 660 °C to 1000 °C 1000 °C to 1300 °C	0.35 °C 1.1 °C 1.5 °C 3.0 °C		P
Temperature surveys			A list of individual approved engineers is held by the laboratory and by UKAS	S
Autoclaves	0 °C to 200 °C	0.60 °C		
Ovens, furnaces, freezers, 'cold' rooms	- 30 °C to 600 °C 600 °C to 1000 °C 1000 °C to 1300 °C	3.0 °C 4.0 °C 6.0 °C	Single and multipoint monitoring probes Time dependent temperature profiling	
END				