

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION 0778</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>Eurotherm Limited</p> <p>Issue No: 010 Issue date: 25 November 2011</p>	
	<p>Faraday Close Durrington Worthing West Sussex BN13 3PL</p>	<p>Contact: Mr A E Solway Tel: +44 (0)1903 268500 Fax: E-Mail: tony.solway@invensys.com Website: www.invensys.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 Faraday Close Durrington Worthing West Sussex BN13 3PL</p> <p>Local contact Mr Tony Solway</p>	<p>Electrical</p>	<p>Calibrations performed at Permanent Laboratory are denoted: P</p>

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>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.</p> <p>Local contact Mr Tony Solway</p>	<p>Electrical Pressure Temperature Time</p>	<p>Calibrations performed on site are denoted: S</p>



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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</p> <p><u>Gas Pressure (Gauge)</u></p> <p>Calibration of pressure indicating instruments and gauges</p>	- 100 kPa to + 2 MPa	2.5 kPa	<p>Results may be expressed in other units of pressure as required.</p> <p>Calibration of pressure measuring devices with an electrical output may be undertaken.</p>	S
<p>TEMPERATURE</p> <p>Electronic thermometers with sensors</p> <p>Platinum resistance thermometers 3-wire and 4-wire</p> <p>Thermocouples</p>	<p>- 40 °C to - 20 °C - 20 °C to + 100 °C 100 °C to 140 °C</p> <p>- 40 °C to - 20 °C - 20 °C to + 100 °C 100 °C to 140 °C</p> <p>- 40 °C to - 20 °C - 20 °C to + 100 °C 100 °C to 140 °C</p>	<p>0.50 °C 0.40 °C 0.50 °C</p> <p>0.50 °C 0.40 °C 0.50 °C</p> <p>0.75 °C 0.70 °C 0.75 °C</p>	<p>Calibration of temperature measuring devices with an electrical output may be undertaken.</p>	S
<p>ELECTRICAL</p> <p>Temperature indicators, calibration by electrical simulation</p> <p>Base metal thermocouples Noble metal thermocouples</p> <p>Pt 100</p> <p>Temperature simulators, calibration by electrical simulation</p> <p>Base metal thermocouples Noble metal thermocouples</p> <p>Pt 100</p>	<p>- 100 °C to + 1370 °C 0 °C to 1600 °C</p> <p>- 100 °C to + 400 °C</p> <p>- 100 °C to + 1370 °C 0 °C to 1600 °C</p> <p>- 100 °C to + 400 °C</p>	<p>0.55 °C 1.6 °C</p> <p>0.15 °C</p> <p>0.60 °C 1.8 °C</p> <p>0.11 °C</p>	<p>including cold junction compensation</p> <p>including cold junction compensation</p>	<p>S</p> <p>S</p> <p>S</p>



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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 VOLTAGE				S
Generation	0 mV to 100 mV 100 mV to 10 V	0.023 mV 11 mV		
Measurement	0 mV to 100 mV 100 mV to 10 V	0.032 mV 6.5 mV		
DC CURRENT				S
Generation	0 mA to 25 mA	8.0 μ A		
Measurement	0 mA to 25 mA	10 μ A		
DC RESISTANCE				S
Generation	0 Ω to 1 k Ω	0.39 Ω		
TIME				
Timers	10 s to 200 hr	3.0 s	Including absolute time	S
DC VOLTAGE				P
Generation	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V	2.0 μ V 5.0 μ V 40 μ V		
Measurement	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V	3.0 μ V 5.0 μ V 80 μ V		
DC CURRENT				P
Generation	0 mA to 200 mA	4.0 μ A		
Measurement	0 mA to 200 mA	0.015 mA		
DC RESISTANCE				P
Generation	1 Ω 10 Ω 100 Ω 1 k Ω	0.010 Ω 0.010 Ω 0.010 Ω 0.010 Ω		
Measurement	0 Ω to 2 k Ω	0.010 Ω		



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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (<i>k</i> = 2)	Remarks	Location Code
Temperature indicators, calibration by electrical simulation				P
Base metal thermocouples	- 200 °C to - 50 °C - 50 °C to + 1370 °C	0.33 °C to 0.15 °C 0.15 °C	excluding cold junction compensation	
Noble metal thermocouples	0 °C to 750 °C 750 °C 1600 °C	1.0 °C to 0.42 °C 0.42 °C	excluding cold junction compensation	
Pt 100	- 100 °C to + 400 °C	0.026 °C		
Temperature simulators, calibration by electrical simulation				P
Base metal thermocouple	- 200 °C to - 50 °C - 50 °C to + 1370 °C	0.13 °C to 0.06 °C 0.06 °C	excluding cold junction compensation	
Noble metal thermocouple	0 °C to 750 °C 750 °C 1600 °C	0.40 °C to 0.17 °C 0.17 °C	excluding cold junction compensation	
Pt 100	- 100 °C to + 400 °C	0.026 °C		
Cold junction compensation	At ambient temperature of 22 °C ± 3 °C	0.067 °C		
END				