


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0499</b>  Accredited to <b>ISO/IEC 17025:2005</b>	<b>PreSet Calibration Services Ltd</b>	
	Issue No: 029    Issue date: 15 October 2009	
	94A East Street Bridport Dorset DT6 3LL	Contact: Mr S S Kick Tel: +44 (0)1308 456539 Fax: +44 (0)1308 421676 E-Mail: lab@preset.com Website: www.preset.com
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
<b>Address</b> 94A East Street Bridport Dorset DT6 3LL  <b>Local contact</b> Mr S S Kick  Tel: +44 (0)1308 456539 Fax: +44 (0)1308 421676 Email: lab@preset.com Website: www.preset.com	Electrical, Pressure, Humidity, Temperature and Time Interval Calibration	Lab

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Any Suitable Site	Electrical, Pressure, Humidity, Temperature and Time Interval Calibration	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
<b>TEMPERATURE</b>				Lab
Thermocouples and electronic thermometers with sensors	-60 °C to 20 °C 20 °C to 200 °C 200 °C to 600 °C 600 °C to 1100 °C 1100 °C to 1200 °C	0.11 °C 0.22 °C 0.34 °C 1.4 °C 2.2 °C		
Temperature block calibrators	-60 °C to 200 °C 200 °C to 600 °C 600 °C to 1100 °C	0.27 °C 0.40 °C 1.9 °C		
Temperature controlled baths, fridges, freezers, autoclaves, ovens, furnaces and environmental chambers	-60 °C to 200 °C 200 °C to 500 °C 500 °C to 1100 °C	1.0 °C 2.0 °C 3.0 °C	Single or multiple point measurements	Site
Pt100 sensors	-60 °C to 200 °C 200 °C to 300 °C 300 °C to 500 °C 500 °C to 800 °C	0.44 °C 0.62 °C 2.0 °C 3.0 °C		
Thermocouples	-60 °C to 200 °C 200 °C to 500 °C 500 °C to 1100 °C	1.0 °C 2.0 °C 3.0 °C		
Electronic thermometers with sensors	As for sensor types above	As for sensor types above		
Temperature block calibrators	-60 °C to 200 °C 200 °C to 400 °C 400 °C to 1100 °C	0.35 °C 0.5 °C 2.5 °C		
<b>HUMIDITY</b>				Lab
Relative Humidity	10% rh to 95% rh for the temperature range 10 °C to 40 °C	1.6 % rh		
	10% rh to 95% rh for the temperature range 40 °C to 60 °C	1.8 % rh		
Temperature sensors incorporated in humidity instruments	10 °C to 60 °C	0.4 °C		
Relative humidity	15% to 95% rh for the temperature range 10 °C to 40 °C	3.1 % rh		Site



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Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ( $k=2$ )	Remarks	Location Code
HUMIDITY (cont'd)				
Temperature (sensors incorporated in humidity instruments)	15 °C to 40 °C	0.7 °C		Lab & Site
PRESSURE				
Hydraulic Pressure (Gauge)				
Calibration of pressure indicating instruments and gauges	0 MPa to 20 MPa 20 MPa to 70 MPa	0.23% + 1.5 kPa 0.063% + 0.6 kPa		Lab & Site
Gas Pressure (Gauge)				
Calibration of pressure indicating instruments and gauges	-100 kPa to 0 kPa 0 kPa to 2.5 kPa 2.5 kPa to 400 kPa 400 kPa to 2 MPa	650 Pa 0.8 % + 3 Pa 660 Pa 800 Pa		
Gas Pressure (Absolute)				Lab & Site
Calibration of pressure indicating instruments and gauges	3.5 kPa to 350 kPa	0.2 kPa		
ELECTRICAL				
Fixed Points				Lab & Site
Generation				
	1 Ω	0.95 mΩ		
	10 Ω	0.3 mΩ		
	100 Ω	3.8 mΩ		
	1 kΩ	26 mΩ		
	100 kΩ	3.8 Ω		
	1 MΩ	175 Ω		
	10 MΩ	12 kΩ		
	100 MΩ	1.2 MΩ		
	1 GΩ	135 MΩ		
Measurement				Lab & Site
	Up to 100 Ω	7.7 mΩ		
	100 Ω to 1 kΩ	150 mΩ		
	1 kΩ to 10 kΩ	1.4 Ω		
	10 kΩ to 100 kΩ	13 Ω		
	100 kΩ to 1 MΩ	220 Ω		
	1 MΩ to 100 MΩ	1.5 MΩ		



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Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ( $k=2$ )	Remarks	Location Code
DC Voltage				
Generation	Up to 20 mV 20 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1 kV	6.4 $\mu$ V 14 $\mu$ V 59 $\mu$ V 390 $\mu$ V 11 mV 72 mV		
Measurement	Up to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1 kV	8.3 $\mu$ V 55 $\mu$ V 530 $\mu$ V 5.8 mV 62 mV		
DC Current				
Generation	Up to 200 $\mu$ A 200 $\mu$ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A	50 nA 860 nA 3.2 $\mu$ A 38 $\mu$ A 730 $\mu$ A 15 mA		
Simulation using a 50 turn coil	20 A to 50 A 50 A to 1000 A	37 mA 760 mA		
Measurement	Up to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 3 A 3 A to 10 A 10 A to 240 A 240 A to 1000 A	6.4 $\mu$ A 14 $\mu$ A 1.2 mA 4.3 mA 1.5 A 6 A 25 A		
AC Voltage All 40 Hz to 1 kHz				
Generation	20 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1 kV	160 $\mu$ V 910 $\mu$ V 10 mV 150 mV 980 mV		
Measurement	10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 750 V	80 $\mu$ V 620 $\mu$ V 6.2 mV 51 mV 410 mV		



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AC Current All 40 Hz to 1 kHz				
Generation	10 $\mu$ A to 200 $\mu$ A 200 $\mu$ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 10 A	550 nA 1.5 $\mu$ A 14 $\mu$ A 140 $\mu$ A 2.5 mA 49 mA		
Simulation using a 50 turn coil	10 A to 50 A 50 A to 500 A	120 mA 2.4 A		
Measurement	100 mA to 1 A 1 A to 3 A	1 mA 11 mA		
Specialist measurements associated with PAT testing				Lab and site
Earth Bond	20 m $\Omega$  190 m $\Omega$ , 210 m $\Omega$ , 950 m $\Omega$ , 1 $\Omega$ 1.05 $\Omega$ , 1.08 $\Omega$ , 2 $\Omega$ 10 $\Omega$ & 18 $\Omega$	5 %  1 %		
	0 V to 20 V  100 mA to 50 A 50 Hz 1 mA to 2 A 50 Hz Up to 2 A	50 mV  05 % + 200 mA 0.5 % + 2 mA 1 % + 2 mA		
Insulation	95 k $\Omega$ , 105 k $\Omega$ , 500 k $\Omega$ , 950 k $\Omega$ , 1.05 M $\Omega$ , 5 M $\Omega$ & 10 M $\Omega$  100 M $\Omega$	0.1 %  1 %		
	0 V to 1 kV 0 A to 20 mA	2.5 V 50 $\mu$ A		
Leakage	50 $\mu$ A to 20 mA 50 Hz	50 $\mu$ A		
Load	2 V to 500 V 50 Hz 5 mA to 13 A 50 Hz	1.25 V 6.5 mA		



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Electrical calibration of temperature simulators, indicators, controllers and recorders for the following sensors:-				
Noble metal thermocouples	0 °C to 500 °C 500 °C to 1760 °C	1.2 °C to 0.5 °C 0.5 °C	including cold junction compensation	Lab
Base metal thermocouples	-190 °C to 0 °C 0 °C to 1370 °C	0.4 °C to 0.2 °C 0.2 °C	including cold junction compensation	
Resistance sensors (Pt100)	-200 °C to 800 °C	0.06 °C	Simulation	
	-200 °C to 800 °C	0.05 °C	Measurement	
Cold junction compensation	At ambient temperature	0.07 °C		
Noble metal thermocouples	0 °C to 500 °C 500 °C to 1760 °C	1.6 °C to 0.8 °C 0.8 °C	including cold junction compensation	Site
Base metal thermocouples	-200 °C to 0 °C 0 °C to 1000 °C 1000 °C to 1370 °C	1.0 °C to 0.4 °C 0.4 °C 0.5 °C	including cold junction compensation	
Resistance sensors (Pt100)	-200 °C to 800 °C	0.5 °C	Simulation	
	-200 °C to 800 °C	0.65 °C	Measurement	
TIME INTERVAL				Lab & site
Timers		0.8 s		
END				