


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 0499 Accredited to ISO/IEC 17025:2005	PreSet Calibration Services Ltd	
	Issue No: 039 Issue date: 25 April 2016	
	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
Address 94A East Street Bridport Dorset DT6 3LL Local contact 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, Time Interval and Weighing Instrument Calibration	Lab

Site activities performed away from the locations listed above:

Location details	Activity	Location code
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.	Electrical, Pressure, Humidity, Temperature, Time Interval and Weighing Instrument Calibration	Site



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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
TEMPERATURE				Lab
Resistance thermometers	- 95 °C to + 20 °C 20 °C to 200 °C 200 °C to 600 °C	0.12 °C 0.11 °C 0.14 °C		
Thermocouples	- 95 °C to + 20 °C 20 °C to 200 °C 200 °C to 600 °C 600 °C to 1100 °C 1100 °C to 1200 °C	0.27 °C 0.26 °C 0.40 °C 1.2 °C 2.2 °C		
Electronic thermometers with sensors	As for sensor type above			
Temperature block calibrators	- 95 °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	- 95 °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	- 95 °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	- 95 °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	- 95 °C to + 200 °C 200 °C to 400 °C 400 °C to 1100 °C	0.35 °C 0.50 °C 2.5 °C		
HUMIDITY				Lab
Relative Humidity	12 %rh to 50 %rh 50 %rh to 95 %rh for the temperature range 10 °C to 40 °C	1.8 %rh 1.8 %rh to 2.2 %rh		
	12 %rh to 50 %rh 50 %rh to 95 %rh for the temperature range 40 °C to 60 °C	1.7 %rh 1.7 %rh and 2.0 %rh		



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HUMIDITY (continued)				
Temperature sensors incorporated in humidity instruments	10 °C to 60 °C	0.37 °C		Site
Relative humidity	15 %rh to 95 %rh for the temperature range 10 °C to 40 °C	3.7 %rh		
Temperature (sensors incorporated in humidity instruments)	15 °C to 40 °C	0.60 °C		
PRESSURE				Lab & Site
Hydraulic Pressure (Gauge)				
Calibration of pressure indicating instruments and gauges	0 MPa to 20 MPa 20 MPa to 70 MPa	50 ppm + 6.4 kPa 50 ppm + 14 kPa		
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	0.65 kPa 0.80 % + 3.0 Pa 0.67 kPa 0.80 kPa		
Gas Pressure (Absolute)				Lab & Site
Calibration of pressure indicating instruments and gauges	3.5 kPa to 350 kPa	0.80 % + 0.36 kPa		
ELECTRICAL				
DC RESISTANCE				Lab & Site
Specific values				
	1 Ω	1.7 mΩ		
	10 Ω	0.53 mΩ		
	100 Ω	4.0 mΩ		
	1 kΩ	27 mΩ		
	10 kΩ	0.43 Ω		
	100 kΩ	3.8 Ω		
	1 MΩ	190 Ω		
	10 MΩ	12 kΩ		
	100 MΩ	1.2 MΩ		
	1 GΩ	120 MΩ		



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ELECTRICAL (continued)				Lab & Site
DC RESISTANCE (continued)				
Other values	0 Ω to 1 Ω 1 Ω to 20 Ω 20 Ω to 90 Ω 90 Ω to 1.1 k Ω 1.1 k Ω to 9 k Ω 9 k Ω to 90 k Ω 90 k Ω to 900 k Ω 900 k Ω to 9 M Ω 9 M Ω to 120 M Ω	6.9 m Ω 6.6 m Ω 6.5 m Ω 95 m Ω 1.4 Ω 4.4 Ω 0.72 k Ω 74 k Ω 0.40 M Ω		
DC Voltage				
Generation	0 mV 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 μ V 14 μ V 59 μ V 390 μ V 11 mV 72 mV		
Measurement	0 mV 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 μ V 55 μ V 530 μ V 5.8 mV 62 mV		
DC Current				
Generation	0 μ A to 200 μ A 200 μ 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 μ A 38 μ A 730 μ A 15 mA		
	20 A to 50 A 50 A to 250 A 250 A to 500 A 500 A to 1000 A	0.27 mA 0.91 mA 1.5 A 1.5 A	Simulation using a 50 turn coil	
Measurement	0 mA 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 μ A 14 μ A 1.2 mA 4.3 mA 1.5 A 6.0 A 25 A		



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ELECTRICAL (continued)				Lab & Site
AC Voltage				
Generation	40 Hz to 1 kHz: 20 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 700 V	160 μ V 910 μ V 10 mV 150 mV 980 mV		
Measurement	40 Hz to 1 kHz: 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 μ V 620 μ V 6.2 mV 51 mV 410 mV		
AC Current				
Generation	40 Hz to 1 kHz: 10 μ A to 200 μ A 200 μ 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 μ A 14 μ A 140 μ A 2.5 mA 49 mA		
	20 A to 50 A 50 to 250 A 250 to 500 A 500 A to 1000 A	0.59 A 2.9 A 3.1 A 3.1 A	Simulation using a 50 turn coil	
Measurement	40 Hz to 1 kHz: 100 mA to 1 A 1 A to 3 A	1.0 mA 11 mA		
Additional measurements in support of IEE 17 th Edition test equipment				Lab & Site
RCD testers				
Trip current	6 mA, 10 mA and 30 mA 100 mA, 300 mA, and 500 mA 1000 mA	7.0 % + 20 μ A 7.0 % + 160 μ A 7.0 % + 840 μ A		
Trip time	20 ms to 390 ms 390 ms to 5 s	1.0 ms 8.9 ms		
AC Resistance for loop testers at 50 Hz				
Nominal values; additive to prevailing loop impedance	0.05 Ω , 0.15 Ω , 0.33 Ω , 1.8 Ω , 3.3 Ω , 18 Ω and 33 Ω	0.054 Ω	Nominal laboratory loop impedance 0.4 Ω .	



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ELECTRICAL (continued)				Lab & Site
Calibration of Portable Appliance Testers				
Earth Bond	20 m Ω 190 m Ω , 210 m Ω , 950 m Ω , 1 Ω 1.05 Ω , 1.08 Ω , 2 Ω 10 Ω and 18 Ω 0 V to 20 V	5.0 % 1.0 % 50 mV		
Insulation	100 mA to 50 A 50 Hz 1 mA to 2 A 50 Hz 0 mA to 2 A dc 95 k Ω , 105 k Ω , 500 k Ω , 950 k Ω , 1.05 M Ω , 5 M Ω and 10 M Ω 100 M Ω 0 kV to 1 kV 0 mA to 20 mA	0.50 % + 200 mA 0.50 % + 2.0 mA 0.10 % + 2.0 mA 0.10 % 1.0 % 2.5 V 50 μ A		
Leakage	At 50 Hz: 50 μ A to 20 mA	50 μ A		
Load	At 50 Hz 2 V to 500 V 5 mA to 13 A at 50 Hz	1.2 V 6.5 mA		
Electrical calibration of temperature simulators, indicators, controllers and recorders for the following sensors:-				
Noble metal thermocouples	0 $^{\circ}$ C to 500 $^{\circ}$ C 500 $^{\circ}$ C to 1760 $^{\circ}$ C	1.2 $^{\circ}$ C to 0.50 $^{\circ}$ C 0.50 $^{\circ}$ C	including cold junction compensation	Lab
Base metal thermocouples	- 160 $^{\circ}$ C to 0 $^{\circ}$ C 0 $^{\circ}$ C to 1370 $^{\circ}$ C	0.40 $^{\circ}$ C to 0.20 $^{\circ}$ C 0.20 $^{\circ}$ C	including cold junction compensation	
Resistance sensors (Pt100)	- 200 $^{\circ}$ C to + 800 $^{\circ}$ C - 200 $^{\circ}$ C to + 800 $^{\circ}$ C	0.060 $^{\circ}$ C 0.050 $^{\circ}$ C	Simulation Measurement	
Cold junction compensation	At ambient temperature	0.070 $^{\circ}$ C		



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Electrical calibration of temperature simulators, indicators, controllers and recorders for the following sensors:- (continued)				
Noble metal thermocouples	0 °C to 500 °C 500 °C to 1760 °C	1.6 °C to 0.80 °C 0.80 °C	including cold junction compensation	Site
Base metal thermocouples	-160 °C to 0 °C 0 °C to 1000 °C 1000 °C to 1370 °C	1.0 °C to 0.40 °C 0.40 °C 0.50 °C	including cold junction compensation	
Resistance sensors (Pt100)	- 200 °C to 800 °C - 200 °C to 800 °C	0.50 °C 0.65 °C	Simulation Measurement	
TIME INTERVAL				Lab & Site
Timers	10 s to 72 hr	0.80 s		
WEIGHING INSTRUMENTS				
Digital one pan non-automatic weighing instruments	Maximum capacity 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 30 kg	CMC (mg) 0.003 1 0.003 9 0.004 7 0.062 0.077 0.093 0.13 0.17 0.28 0.52 1.4 7.8 16 390 770 1 600 2 300	Weights are available in OIML class: E2 from 1 mg to 200 g, Max. grouped load 500 g F1 from 100 mg to 1 kg, Max. grouped load 2 kg M1 from 5 kg to 10 kg, Max. grouped load 30 kg	Lab & Site
END				