


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0683</p> <p>Accredited to ISO/IEC 17025:2005</p>	Pullman Instruments (UK) Ltd	
	Issue No: 022	Issue date: 29 September 2016
Chatsworth House Chatsworth Terrace Harrogate HG1 5HT	Contact: Mr M Conboy Tel: +44 (0)1423 720360 Fax: +44 (0)1423 720361 E-Mail: info@pullman.co.uk Website: www.pullman.co.uk	
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 Chatsworth House Chatsworth Terrace Harrogate HG1 5HT Local contact Mr M Conboy Tel: +44 (0)1423 720360 Fax: +44 (0)1423 720361 Email: info@pullman.co.uk Website: www.pullman.co.uk	Electrical Temperature Pressure	Calibrations performed at Permanent Laboratory are denoted: P

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.	Temperature	Calibrations performed on site are denoted: 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				P
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	5.0 μ V 25 μ V 220 μ V 4.0 mV 16 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	1.8 μ V 6.5 μ V 100 μ V 1.3 mV 13 mV		
DC Current				P
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 10 A 10 A to 30 A 30 A to 1500 A	15 nA 120 nA 1.2 μ A 17 μ A 220 μ A 3.7 mA 16 mA 1.0 %	For the calibration of clamp meters only	
Measurement	0 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 30 A	3.0 nA 33 nA 250 nA 5.6 μ A 220 μ A 6.1 mA 22 mA		
DC Resistance				P
Generation	1 Ω 10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω 1 M Ω 10 M Ω	7.0 m Ω 6.0 m Ω 8.0 m Ω 28 m Ω 140 m Ω 2.7 Ω 80 Ω 1.2 k Ω		



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ELECTRICAL (cont'd)				
DC Resistance (cont'd)				
Measurement	0 Ω to 1 Ω 1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 10 M Ω	33 $\mu\Omega$ 200 $\mu\Omega$ 1.7 m Ω 15 m Ω 600 m Ω 1.8 Ω 25 Ω 470 Ω		
AC Voltage				P
Generation	40 Hz to 1 kHz 10 mV to 200 mV	62 μ V		
	40 Hz to 50 kHz 200 mV to 2 V	800 μ V		
	40 Hz to 1 kHz 2 V to 20 V	5.0 mV		
	1 kHz to 20 kHz 2 V to 20 V	6.0 mV		
	40 Hz to 1 kHz 20 V to 200 V	48 mV		
	56 Hz to 1 kHz 200 V to 1000 V	240 mV		
Measurement	40 Hz to 20 kHz 10 mV to 100 mV 10 V to 100 V	50 μ V 55 mV		
	10 Hz to 50 kHz 100 mV to 1 V	1.2 mV		
	40 Hz to 50 kHz 1 V to 10 V	17 mV		
	40 Hz to 1 kHz 100 V to 1 kV	650 mV		



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ELECTRICAL (cont.) AC Current (cont.) 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 30 A	220 nA 1.2 μ A 12 μ A 110 μ A 1.2 mA 33 mA		P
Measurement	45 Hz to 100 Hz 30 A to 1500 A	1.0 %	For the calibration of clamp meters only	
CAPACITANCE Generation fixed points	40 Hz to 1 kHz 1 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 30 A	50 nA 500 nA 5.0 μ A 60 μ A 630 μ A 13 mA 33 mA		
FREQUENCY Measurement	1 nF 10 nF 20 nF 50 nF 100 nF 1 μ F 10 μ F	25 pF 42 pF 74 pF 180 pF 360 pF 5.0 nF 84 nF		
Generation	100 Hz to 10 kHz 10 kHz to 100 kHz 100 kHz to 1 MHz	350 mHz 450 mHz 5.2 Hz	Frequency may also be reported as 1/f for repetitive events.	
Generation	500 mHz to 1 kHz 1 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz to 10 MHz	240 mHz 420 mHz 900 mHz 2.2 Hz 4.3 Hz 4.5 Hz 45 Hz		



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TEMPERATURE				
Temperature indicators and recorders, with temperature sensor(s)	- 100 °C to 150°C 150 °C to 700 °C 700 °C to 1100 °C	0.10 °C 0.20 °C 3.5 °C		P & S
Block calibrators	- 90 °C to - 30 °C - 30 °C to 450 °C	0.38 °C 0.50 °C		P & S
Temperature controlled fridges, freezers, autoclaves, ovens and environmental chambers	- 90 °C to - 30 °C - 30 °C to 450 °C -50 °C to 150 °C	0.33 °C 0.40 °C 0.70 °C	Single monitoring probe. Time dependent temperature profiling Multipoint monitoring probes. Time dependent temperature profiling	P & S
Data Loggers (in air chamber)	- 30 °C to 120 °C	0.64 °C		P
PRESSURE				
Gas pressure (gauge)				P
Calibration of pressure indicating instruments and gauges	-90 kPa to 700 kPa 700 kPa to 7 MPa	0.14 kPa 0.75 kPa		P
Gas pressure (absolute)				P
Calibration of pressure indicating instruments and gauges	0 Pa to 800 kPa 800 kPa to 7.1 MPa	0.14 kPa 0.75 kPa		P
END				