

United Kingdom Accreditation Service

ACCREDITATION CERTIFICATE



CALIBRATION LABORATORY
No. 0683

Pullman Instruments (UK) Ltd

is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005
General Requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope as detailed in and at the locations specified in the schedule to this certificate, and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated 18 June 2005).

The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued by the United Kingdom Accreditation Service. The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from the UKAS website www.ukas.org.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements. The absence of a schedule on the UKAS website indicates that the accreditation is no longer in force.

A handwritten signature in blue ink, appearing to read 'C. G. ...', is written over a horizontal line.

Accreditation Manager, United Kingdom Accreditation Service

Initial Accreditation date
26 February 2002

This certificate issued on
22 December 2006

The Department of Trade and Industry (DTI) has entered into a memorandum of understanding with the United Kingdom Accreditation Service (UKAS) through which UKAS is recognised as the national body responsible for assessing and accrediting the competence of organisations in the fields of calibration, testing, inspection and certification of systems, products and persons

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0683 Accredited to ISO/IEC 17025:2005	Pullman Instruments (UK) Ltd	
	Issue No: 012 Issue date: 11 February 2008	
	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 Calibrations performed at Permanent Laboratory are denoted: P

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Any Site	Temperature	Calibrations performed on site are denoted: S



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Calibration performed by the Organisation at the locations specified

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability 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	8.5 μ V 20 μ V 150 μ V 15 mV 65 mV		
Measurement	up to 3 mV 3 mV to 10 mV 10 mV to 30 mV 30 mV to 100 mV 100 mV to 300 mV 300 mV to 1 V 1 V to 3 V 3 V to 10 V 10 V to 30 V 30 V to 100 V 100 V to 300 V 300 V to 1 kV	3 μ V 3.1 μ V 4 μ V 4.1 μ V 12 μ V 15 μ V 100 μ V 230 μ V 8 mV 4 mV 120 mV 120 mV		
DC Current				P
Generation	1 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 500 A	45 nA 160 nA 2.2 μ A 32 μ A 300 μ A 35 mA 1%	For the calibration of clampmeters only	
Measurement	Up to 10 μ A 10 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	4.2 nA 11 nA 56 nA 600 nA 12 μ A 130 μ A 7 mA		
DC Resistance				P
Generation	10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω 1 M Ω 10 M Ω	1 m Ω 4 m Ω 35 m Ω 290 m Ω 3 Ω 70 Ω 4.2 k Ω		



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Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ($k=2$)	Remarks	Location Code
ELECTRICAL (cont'd)				
DC Resistance (cont'd)				
Measurement and Generation	up 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	0.9 m Ω 3.6 m Ω 35 m Ω 310 m Ω 10 Ω 160 Ω 1.4 k Ω		
AC Voltage				P
Generation	60 Hz to 1 kHz 10 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 700 V	300 μ V 3 mV 30 mV 220 mV 700 mV		
Measurement	1 kHz to 20 kHz 2 V to 20 V 45 Hz to 20 kHz 10 mV to 30 mV 30 mV to 300 mV 300 mV to 3 V 3 V to 30 V 45 Hz to 1 kHz 30 V to 300 V 45 Hz to 60 Hz 300 V to 1 kV	60 mV 65 μ V 85 μ V 5.5 mV 48 mV 190 mV 2 V		
AC Current				P
Generation	60 Hz to 500 Hz 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 10 A to 500 A	300 nA 3 μ A 30 μ A 260 μ A 3.2 mA 30 mA 1%	For the calibration of clampmeters only	



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Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ($k=2$)	Remarks	Location Code
ELECTRICAL (cont'd)				
AC Current (cont'd)				
Measurement	60 Hz to 5 kHz 1 μ A to 300 μ A 300 μ A to 3 mA 3 mA to 30 mA 30 mA to 300 mA 300 mA to 3 A 3 A to 10 A	190 nA 2.5 μ A 23 μ A 240 μ A 13 mA 20 mA		
TEMPERATURE				
Temperature indicators and recorders, with temperature sensor(s)	-30 °C to 140 °C above 140 °C to 300 °C above 300 °C to 450 °C	0.4 °C 0.7 °C 1 °C		P
	-30 °C to 140 °C above 140 °C to 300 °C above 300 °C to 450 °C	0.6 °C 0.7 °C 1 °C		S
Block calibrators	-30 °C to 450 °C	0.35 °C		P & S
Temperature controlled fridges, freezers, autoclaves, ovens and environmental chambers	-30 °C to 450 °C	0.5 °C		P & S
END				