

CERTIFICATE OF CALIBRATION

Issued By Transmille Ltd.

Certificate Number 27149

Date of Issue 24 October 2014



0324



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Approved Signatory

G.A. Shapland M.A. Bailey S.A. Hawkins J.A. Bailey

Customer : SIGNATROL LTD
UNIT E2, GREEN LANE BUSINESS PARK
TEWKESBURY GLOUCESTERSHIRE GL20 8SJ.

Date Received : 17 October 2014

Instrument :	System ID :	K30448527	Job Number :	53670-1
	Description :	Voltage Source	Site :	
	Manufacturer :	Keithley	Location :	
	Model Number :	230		
	Serial Number :	448527		
	Procedure Version :	1/N		

Environmental Conditions

Temperature : 20°C +/- 1°C
Relative Humidity : 50% +/- 20%

Mains Voltage : 230V +/- 12V
Mains Frequency : 50Hz +/- 1Hz

Comments

Instrument was allowed to stabilise for at least 12 hours before calibration.

Specifications Ref : 230-901-01- Rev. H

Calibration Information

The instrument was calibrated against laboratory standards whose values are traceable to recognised National Standards. The uncertainty limits quoted refer to the measured values only, with no account being taken of the instruments ability to maintain its calibration.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrated By : M. Nelson

Date of Calibration : 24 October 2014

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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UKAS Accredited Calibration Laboratory No. 0324
AS FOUND RESULTS

Certificate Number
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Test Title	Applied Value	Reading	Uncertainties
DC Voltage Output			
100mV Rng	0.000mV	-0.018mV	2.5uV
100mV Rng	190.000mV	189.962mV	3uV
100mV Rng	-190.000mV	-190.010mV	3uV
1V Rng	0.000 0V	0.000 0V	210uV
1V Rng	1.900 0V	1.899 9V	210uV
1V Rng	-1.9000V	-1.9000V	210uV
10V Rng	0.000 0V	0.000 0V	210uV
10V Rng	19.000 0V	19.000 4V	270uV
10V Rng	-19.0000V	-19.0004V	270uV
100V Rng	0.000 0V	0.000 0V	210uV
100V Rng	100.000 0V	100.004 7V	810uV
100V Rng	-100.0000V	-100.0021V	810uV

End of Results

Instrument Service Log

SIGNATROL LTD, UNIT E2, GREEN LANE BUSINESS PARK, TEWKESBURY, GLOUCESTERSHIRE GL20 8SJ.



Instrument Description	voltage source
Model Number	230
Serial Number	448527
System ID	K30448527
Reference Number	-
Used By / Location	-
Date Acquired	-
Instrument Cost	-
Calibration Interval	52 weeks

<i>Date</i>	<i>Details</i>	<i>Calibration</i>
22/10/2013	Calibration Only; UKAS Calibration; Certificate number : 24653 Parts Used : NONE Customer Order No. : 44426; Job No. : 49587-2 Instrument in good condition. All tests passed UKAS calibration. Mains safety tested.	by M.A. Bailey
24/10/2014	Calibration Only; UKAS Calibration; Certificate number : 27149 Parts Used : NONE Customer Order No. : 44738; Job No. : 53670-1 Instrument in good condition. All tests passed UKAS calibration.	by M. Nelson