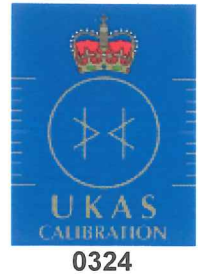


CERTIFICATE OF CALIBRATION

Issued By Transmille Ltd.

Certificate Number 37491

Date of Issue 28 November 2018



Transmille Ltd.
Unit 4, Select Business Centre
Lodge Road
Staplehurst, Kent. TN12 0QW.
TEL 01580 890700 FAX 01580 890711

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Approved Signatory

A handwritten signature in black ink, appearing to be 'G.A. Shapland'.

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

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

Date Received : 27 November 2018

Instrument :	System ID :	K30448527	Job Number :	70842-2
	Description :	Voltage Source	Ref. Number :	CE1067
	Manufacturer :	Keithley	Site :	
	Model Number :	230	Location :	
	Serial Number :	448527	Last Calibration Certificate :	34764
	Procedure Version :	1/N	Last Calibration Date :	15/11/2017

Environmental Conditions

Temperature : 20°C +/- 1°C
Relative Humidity : 40% +/- 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
All Tests Passed calibration.

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 : 28 November 2018

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.

CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324
AS FOUND RESULTS

Certificate Number
37491

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Test Title	Applied Value	Reading	Uncertainties
DC Voltage Output			
100mV Rng	0.000mV	-0.027mV	±2.2uV
100mV Rng	190.000mV	189.941mV	±2.4uV
100mV Rng	-190.000mV	-190.005mV	±2.4uV
1V Rng	0.000 0V	0.000 0V	±210uV
1V Rng	1.900 0V	1.899 8V	±210uV
1V Rng	-1.9000V	-1.8999V	±210uV
10V Rng	0.000 0V	0.000 2V	±210uV
10V Rng	19.000 0V	19.000 9V	±250uV
10V Rng	-19.0000V	-19.0010V	±250uV
100V Rng	0.000 0V	0.001 3V	±210uV
100V Rng	100.000 0V	100.005 4V	±760uV
100V Rng	-100.0000V	-100.0046V	±760uV

End of Results