

# CERTIFICATE OF CALIBRATION

Issued By Transmille Ltd.

Certificate Number 32275

Date of Issue 15 November 2016



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 : 11 November 2016

<b>Instrument :</b>	System ID :	K30448527	Job Number :	63268-1
	Description :	Voltage Source	Ref. Number :	CE1067
	Manufacturer :	Keithley	Site :	
	Model Number :	230	Location :	
	Serial Number :	448527		
	Procedure Version :	1/N		

## 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

## 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 :** 15 November 2016

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  
32275

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Test Title	Applied Value	Reading	Uncertainties
<b>DC Voltage Output</b>			
100mV Rng	0.000mV	0.001mV	±2.2uV
100mV Rng	190.000mV	189.956mV	±2.4uV
100mV Rng	-190.000mV	-189.997mV	±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 4V	±210uV
10V Rng	19.000 0V	19.000 1V	±250uV
10V Rng	-19.0000V	-18.9998V	±250uV
100V Rng	0.000 0V	0.000 4V	±210uV
100V Rng	100.000 0V	100.002 5V	±760uV
100V Rng	-100.0000V	-99.9992V	±760uV

**End of Results**