

# CERTIFICATE OF CALIBRATION

Issued By Transmille Ltd.

Certificate Number 32271

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 :	T00008046	Job Number :	63273-1
	Description :	Portable Appliance Tester	Ref. Number :	CE1038
	Manufacturer :	SEAWARD	Site :	
	Model Number :	PAT 500H	Location :	
	Serial Number :	J14-0541		
	Procedure Version :	3.00/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.  
Instrument was calibrated with Earth Bond Lead Supplied.

## 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

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UKAS Accredited Calibration Laboratory No. 0324  
**AS FOUND RESULTS**

Certificate Number  
32271

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Test Title	Applied Value	Reading	Uncertainties
<b>General Operation Tests</b>			
Controls & Display	---	Pass	
<b>+Ve Earth Bond Range</b>			
Current into 0.1 $\Omega$	200mA	227mA	$\pm 2.1$ mA
Linearity	0.378 $\Omega$	0.373 $\Omega$	$\pm 14$ m $\Omega$
Linearity	0.543 $\Omega$	0.536 $\Omega$	$\pm 14$ m $\Omega$
Linearity	1.040 $\Omega$	1.012 $\Omega$	$\pm 16$ m $\Omega$
<b>Insulation Resistance</b>			
1M $\Omega$	1.00M $\Omega$	1.00M $\Omega$	$\pm 21$ k $\Omega$
7M $\Omega$	7.00M $\Omega$	6.99M $\Omega$	$\pm 84$ k $\Omega$
9M $\Omega$	9.00M $\Omega$	8.99M $\Omega$	$\pm 110$ k $\Omega$
15M $\Omega$	15.00M $\Omega$	14.99M $\Omega$	$\pm 170$ k $\Omega$
19M $\Omega$	19.00M $\Omega$	19.01M $\Omega$	$\pm 220$ k $\Omega$
<b>Leakage Current</b>			
2mA	2.00mA	1.94mA	$\pm 0.02$ mA

**End of results**