

# CERTIFICATE OF CALIBRATION

Issued By Transmille Ltd.

Certificate Number 40303

Date of Issue 04 December 2019



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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

Date Received : 28 November 2019

<b>Instrument :</b>	System ID :	T00008046	Job Number :	73362-2
	Description :	Portable Appliance Tester	Ref. Number :	CE1038
	Manufacturer :	SEAWARD	Site :	
	Model Number :	PAT 500H	Location :	
	Serial Number :	J14-0541	Last Calibration Certificate :	37487
	Procedure Version :	3.00/N	Last Calibration Date :	28/11/2018

## 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 : 04 December 2019

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
<b>General Operation Tests</b>			
Controls & Display	---	Pass	
<b>+Ve Earth Bond Range</b>			
Current into 0.1 $\Omega$	200mA	222mA	$\pm 2.1$ mA
Linearity	0.399 $\Omega$	0.400 $\Omega$	$\pm 14$ m $\Omega$
Linearity	0.538 $\Omega$	0.535 $\Omega$	$\pm 14$ m $\Omega$
Linearity	1.015 $\Omega$	1.001 $\Omega$	$\pm 16$ m $\Omega$
<b>Insulation Resistance</b>			
1M $\Omega$	1.00M $\Omega$	1.00M $\Omega$	$\pm 21$ k $\Omega$
7M $\Omega$	7.00M $\Omega$	7.03M $\Omega$	$\pm 84$ k $\Omega$
9M $\Omega$	9.00M $\Omega$	9.04M $\Omega$	$\pm 110$ k $\Omega$
15M $\Omega$	15.00M $\Omega$	15.08M $\Omega$	$\pm 170$ k $\Omega$
19M $\Omega$	19.00M $\Omega$	19.11M $\Omega$	$\pm 220$ k $\Omega$
<b>Leakage Current</b>			
2mA	2.00mA	1.96mA	$\pm 0.02$ mA

**End of results**