

M K I S



Calibration Company

Milton Keynes Instrumentation Services
10 Potters Lane
Kiln Farm
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MK11 3HE

Tel: 01908 568250
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CERTIFICATE OF CALIBRATION

CERTIFICATE NO: 39886

DATE OF ISSUE: 10.05.11

Customer:	DJB Labcare Limited	Order Number:	17827
Location:	Milton Keynes	Serial Number:	V19-0592
Instrument Type:	Seaward IT 1000	Adjustment Required:	No

All measurements were made using equipment whose values are referenced directly or by approved radiometric procedures to laboratory standards whose values are traceable to National Standards.

The ambient temperature and relative humidity throughout the test was $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and $50\% \pm 20$ respectively.

The calibration was carried out in accordance with the general requirements of BS EN ISO/IEC 17025: 2005.

This is to certify that the above listed instrument meets or exceeds as defined by our established calibration procedures, the published manufacturers specification.

The uncertainties refer to the applied and measured values only with no account being taken of the instruments ability to maintain its calibration.

The maximum uncertainties were:

Resistance	
0.1 Ω to 1.0 Ω	$\pm 0.5\%$
1 M Ω to 20 M Ω	$\pm 0.05\%$
D C Volts	$\pm 0.05\%$
A C Volts	$\pm 1\%$
A C Current	$\pm 1\%$
Watts	$\pm 1\%$

Applicable UKAS certificates : 32934.

The following results were obtained (see results sheet).

Signed:

Uncertainties are for a confidence probability of not less than 95%.

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TEST RESULTS

Certificate No.: 39886
Date of Issue: 10.05.11

Customer : DJB Labcare
Instrument Type: Seaward PAT IT 1000
Serial Number: V19-0592

Earth Bond	Range	Applied Value	Indicated Value	Measured Value
	100 mA	0.10 Ω	0.102 Ω	0.09A
		0.20 Ω	0.208 Ω	
		0.50 Ω	0.496 Ω	
	4 A	0.10 Ω	0.107 Ω	3.8 A
		0.20 Ω	0.204 Ω	
		0.50 Ω	0.520 Ω	
	6 A	0.10 Ω	0.107 Ω	5.8 A
		0.20 Ω	0.204 Ω	
		0.50 Ω	0.520 Ω	
	12 A	0.10 Ω	0.101 Ω	11.1 A
		0.20 Ω	0.204 Ω	
		0.50 Ω	0.512 Ω	
	20 A	0.10 Ω	0.106 Ω	18.9 A
		0.20 Ω	0.204 Ω	
		0.50 Ω	0.494 Ω	
	25 A	0.10 Ω	0.107 Ω	22.3 A
		0.20 Ω	0.206 Ω	
		0.50 Ω	0.490 Ω	
Insulation		2.00 M Ω	2.06 Ω	
		5.00 M Ω	5.04 Ω	
		7.00 M Ω	7.06 Ω	
		10.0 M Ω	10.1 Ω	483 V
Leakage			1.00 mA	1.00 mA