MKIS
Calibration Company

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

Tel: 01908 568250
Fax: 01908 564661

CERTIFICATE OF CALIBRATION

CERTIFICATE NO: 37200 **DATE OF ISSUE:** 01.02.10

Customer:	DJB Labcare Limited	**Order Number:**	T.B.A
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 ratiometric procedures to laboratory standards whose values are traceable to National Standards.

The ambient temperature and relative humidity throughout the test was 20°C ± 2°C and50% ± 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	± 0.5%
1 MΩ to 20 MΩ	± 0.05%
D C Volts	± 0.05%
A C Volts	± 1%
A C Current	± 1%
Watts	± 1%

Applicable UKAS certificates : 31917.

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.: 37200
Date of Issue: 01.02.10
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	0.100 Ω	0.09A
		0.20 Ω	0.208 Ω	
		0.50 Ω	0.498 Ω	
	4 A	0.10 Ω	0.106 Ω	3.9 A
		0.20 Ω	0.203 Ω	
		0.50 Ω	0.505 Ω	
	6 A	0.10 Ω	0.108 Ω	5.8 A
		0.20 Ω	0.206 Ω	
		0.50 Ω	0.518 Ω	
	12 A	0.10 Ω	0.101 Ω	11.5 A
		0.20 Ω	0.204 Ω	
		0.50 Ω	0.512 Ω	
	20 A	0.10 Ω	0.105 Ω	19.4 A
		0.20 Ω	0.206 Ω	
		0.50 Ω	0.496 Ω	
	25 A	0.10 Ω	0.108 Ω	23.2 A
		0.20 Ω	0.208 Ω	
		0.50 Ω	0.488Ω	
Insulation		2.00 MΩ	2.05 Ω	
		5.00 MΩ	5.02 Ω	
		7.00 MΩ	7.03 Ω	
		10.0 MΩ	10.1 Ω	485 V
Leakage			0.78 mA	0.77 mA