

# M K I S



Calibration Company

Milton Keynes Instrumentation Services  
Unit 4 Furtho Court  
Towcester Road  
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Tel: 01908 568250  
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## CERTIFICATE OF CALIBRATION

**CERTIFICATE NO:** 27565

**DATE OF ISSUE:** 28.02.05

<b>Customer:</b>	Labcare Limited	<b>Order Number:</b>	00059
<b>Location:</b>	Newport Pagnell	<b>Serial Number:</b>	T12-0539
<b>Instrument Type:</b>	Seaward IT 1000	<b>Adjustment Required:</b>	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  $21^{\circ}\text{C} \pm 2$  and  $50\% \pm 20$  respectively.

The calibration was carried out in accordance with the general requirements of BS EN ISO/IEC 17025: 2000.

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

Applicable UKAS certificates : 018293.

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.:** 27565  
**Date of Issue:** 28.02.05

**Customer :** Labcare Limited  
**Instrument Type:** Seaward IT 1000  
**Serial Number:** T12-0539

Earth Bond	Range	Applied Value	Indicated Value	
	100 mA	0.10 $\Omega$	0.108 $\Omega$	88 mA
		0.20 $\Omega$	0.208 $\Omega$	
	4 A	0.10 $\Omega$	0.108 $\Omega$	3.6 A
		0.20 $\Omega$	0.206 $\Omega$	
	6 A	0.10 $\Omega$	0.102 $\Omega$	5.3 A
		0.20 $\Omega$	0.205 $\Omega$	
	12 A	0.10 $\Omega$	0.104 $\Omega$	9.8 A
		0.20 $\Omega$	0.206 $\Omega$	
	20 A	0.10 $\Omega$	0.006 $\Omega$	15.5 A
		0.20 $\Omega$	0.206 $\Omega$	
	25 A	0.10 $\Omega$	0.104 $\Omega$	18.1 A
		0.20 $\Omega$	0.203 $\Omega$	
		0.50 $\Omega$	0.488 $\Omega$	
Insulation		2.00 M $\Omega$	2.06 $\Omega$	
		7.00 M $\Omega$	7.25 $\Omega$	
		10.0 M $\Omega$	10.3 $\Omega$	486 V
Leakage			2.40 A	2.38 A