

M K I S



Calibration Company

Milton Keynes Instrumentation Services
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CERTIFICATE OF CALIBRATION

CERTIFICATE NO: 27563

DATE OF ISSUE: 28.02.05

Customer:	Labcare Limited	Order Number:	00059
Location:	Newport Pagnell	Serial Number:	T-97185
Instrument Type:	Omega HH21	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 $21^{\circ}\text{C} \pm 1$ and $50\% \pm 10$ 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 taken of the instrument's ability to maintain its calibration.

0 μV to 100 mV $\pm (20 \text{ ppm of value} + 2 \mu\text{V})$

The applied value is millivolts DC derived from BS EN 60584.1 Part 5 1996 Thermocouple Tables.

Calibration procedure MKIP 221 was used.

Standard UKAS certificates used are: DC Volts 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.: 27563
Date of Issue: 28.02.05

Customer : Labcare Limited
Instrument Type: Omega HH21
Serial Number: T97185

	Applied Value	Equivalent Temperature	Indicated Value
T Type			
	-0.757 mV	-20°C	-19.8°C
	-0.383 mV	-10°C	-9.9°C
	0.000 mV	0°C	-0.1°C
	0.391 mV	10°C	9.8°C
	0.790 mV	20°C	19.9°C
	1.196 mV	30°C	29.7°C
	1.612 mV	40°C	39.7°C
	2.036 mV	50°C	49.8°C
	4.297 mV	100°C	100.2°C
	6.704 mV	150°C	149.7°C
	9.288 mV	200°C	199.6°C
	12.013 mV	250°C	249.7°C
	14.862 mV	300°C	299.5°C

Applied Value	Indicated Value				
	Probe D	Bead C	Bead E	Bead A	Probe K Type
0.0°C	0.1°C	0.0°C	0.1°C	0.1°C	0.0°C
35°C	34.8°C	34.7°C	34.7°C	34.7°C	34.9°C