

CERTIFICATE OF CALIBRATION

ISSUED BY: **M K I S** CALIBRATION COMPANY

DATE OF ISSUE: 16 August 2007

CERTIFICATE NUMBER: 2006



0236

STANDARDS LABORATORY

MKIS



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Approved
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Signature

Equipment Description:	Digital Thermometer
Manufacturer:	Omega Engineering
Type:	HH 506RA
Serial Number:	05001201
Order Number:	Verbal
Customer:	DJB Labcare Limited
Location:	Newport Pagnell
Date Received:	14 August 2007
Date Calibrated:	15 August 2007

The instrument was kept in the laboratory environment for 24 hours, to allow the instrument to stabilise, prior to the tests being carried out.

The ambient temperature and relative humidity throughout the test was $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and $50\% \pm 10\%$ respectively.

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

The applied value is millivolts DC derived from BS EN 60584.1 Part 4 1996 Thermocouple Tables.

Remarks: No adjustments were made.

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UKAS Accredited Calibration Laboratory No. 0236

Certificate Number: 2006

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Applied Value	Equivalent Temperature	Indicated Value	
		T 1	T 2
-0.778 mV	-20°C	-20.1°C	-20.1°C
-0.392 mV	-10°C	-10.1°C	-10.1°C
0.00 mV	0°C	-0.2°C	-0.2°C
0.397 mV	10°C	9.8°C	9.8°C
0.798 mV	20°C	19.8°C	19.8°C
2.023 mV	50°C	49.8°C	49.8°C
4.096 mV	100°C	99.8°C	99.8°C
6.138 mV	150°C	149.8°C	149.8°C
8.138 mV	200°C	199.9°C	199.9°C
12.209 mV	300°C	299.9°C	299.9°C
16.397 mV	400°C	399.9°C	399.9°C
20.644 mV	500°C	499.9°C	499.9°C
24.905 mV	600°C	599.9°C	599.9°C
29.129 mV	700°C	699.9°C	699.9°C
33.275 mV	800°C	799.9°C	799.9°C
37.326 mV	900°C	899.8°C	899.9°C
41.276 mV	1000°C	999.8°C	999.8°C

The maximum uncertainties were:

-20°C to 1000°C $\pm 0.2^\circ\text{C} + 0.5 \text{ L.S.D.}$

END

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.

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The following parameters are not included in our current UKAS Accreditation and are not part of Report: 2006

Applied Value		Indicated Value	
		T 1	T 2
T/C Supplied Type T	0°C	-0.1°C	-0.1°C
	50°C	49.7°C	49.7°C
	100°C	99.7°C	99.7°C