

CERTIFICATE OF CALIBRATION

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

DATE OF ISSUE: 25 June 2010

CERTIFICATE NUMBER: 2330



0236

STANDARDS LABORATORY



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Approved
Signatories

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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:	22 June 2010
Date Calibrated:	24 June 2010

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 $50\% \pm 20\%$ 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: 2330

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Applied Value	Equivalent Temperature	Indicated Value	
TYPE "T" Thermocouple		T 1	T 2
-0.757 mV	-20°C	-20.1°C	-20.0°C
-0.388 mV	-10°C	-10.2°C	-10.2°C
0.00 mV	0°C	-0.1°C	-0.1°C
0.391 mV	10°C	9.9°C	9.9°C
0.790 mV	20°C	19.8°C	19.8°C
1.196 mV	30°C	29.8°C	29.8°C
1.486 mV	37°C	36.8°C	36.8°C
1.612 mV	40°C	39.8°C	39.8°C
2.036 mV	50°C	49.8°C	49.8°C
4.279 mV	100°C	99.8°C	99.8°C
6.704 mV	150°C	149.9°C	149.9°C
9.288 mV	200°C	199.9°C	199.9°C
12.013 mV	250°C	249.9°C	249.9°C
14.862 mV	300°C	299.9°C	299.9°C

The maximum uncertainties were:

-20°C to 1000°C ± 0.2°C + 0.5 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.

Supplement to UKAS report No 2330

Date 25.06.10

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The following parameters are not included in our current UKAS Accreditation and are not part of Report: 2330

Applied Value	Indicated Value input 1		
	T2	T3	T4
Supplied Type Thermocouple T			
4 °C	4.1 °C	4.0°C	4.1°C
37°C	36.9°C	36.8°C	36.9°C
121°C	120.9°C	120.8°C	120.8°C

Applied Value	Indicated Value input 2		
	T2	T3	T4
Supplied Type Thermocouple T			
4 °C	4.1 °C	4.0°C	4.1°C
37°C	36.9°C	36.8°C	36.8°C
121°C	120.9°C	120.8°C	120.8°C