

# CERTIFICATE OF CALIBRATION

ISSUED BY: LAMBDA CALIBRATION LTD

DATE OF ISSUE: 30<sup>th</sup> May 2014

CERTIFICATE No: 306517



Lambda  
CALIBRATION LTD

11-13 Chorley Central  
Business Park  
Stump Lane  
Chorley  
PR6 0BL  
Tel: 0845 241 1533

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APPROVED SIGNATORY

A handwritten signature in black ink, appearing to be a cursive signature.

A Kelly K Quigley  
C Cookson ✓

Customer: Premier Autoclaves Services & Solutions Ltd, Keighley, BD20 5LN

Item No: 940412

Description: A Dry Block Temperature Calibrator, Jofra 201 S  
Insert type/material: Metal  
Number of holes in the insert: 1  
Depth of holes: 100mm  
Position of test hole: Centre

Date of Cal: 30/05/14

Basis: Lambda Procedure No:CIE-680

Method: A calibration thermometer was inserted into the test hole of the UUT.  
Temperature readings from the UUT's display were compared with readings from the test thermometer after stabilisation at a number of test temperatures.  
The reported min/max temperatures were measured over a 10 minute period.

Equipment Used: A metal sheathed Ref PRT (LTP-11), dia: 6mm, sensor length: 25mm

Temperature Scale: ITS-90

Lab Temperature: 20°C ± 3°C

Uncertainty: ± 0.55°C

## UUT Visual Examination and Comments

Satisfactory

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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ISSUED BY: LAMBDA CALIBRATION LTD

UKAS ACCREDITED CALIBRATION LABORATORY No: 0495

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## Display Accuracy Test Results (the calibration thermometer was fully inserted for this test)

UUT Set Point °C	UUT Indicated Temperature °C	Measured Temperature Full Immersion (Min) °C	Measured Temperature Full Immersion (Max) °C
50.0	50.1	50.506	50.523
150.0	150.1	150.252	150.285
250.0	250.0	250.143	250.174

## Axial Uniformity Test Results (the calibration thermometer was withdrawn by 20mm for this test)

UUT Set Point °C	UUT Indicated Temperature °C	Measured Temperature with Immersion Reduced by 20mm (Min) °C	Measured Temperature with Immersion Reduced by 20mm (Max) °C
250.0	250.0	249.471	249.577

## Hysteresis Test Results (a test point was repeated, but approached from the opposite direction for this test)

UUT Set Point °C	UUT Indicated Temperature °C	Measured Temperature Full Immersion (Min) °C	Measured Temperature Full Immersion (Max) °C
150.0	150.0	150.142	150.197