

Calibration Certificate No. : TL/221/933.1.1  
ULR No. : CC28402100005017F

Page 1 of 1

<b>M/S NATIONAL CENTRE FOR QUALITY CALIBRATION</b> 4, ABHISHREE CORPORATE PARK, NEAR SWAGAT BUNGALOW BRIS, ISKCON-AMBLI ROAD, AMBLI, AHMEDABAD - 380058 GUJARAT, INDIA	<b>J.O.NO.</b>	: T/220/2/2113011237
	<b>Received Date</b>	: 18/09/2021
	<b>Calibration Date</b>	: 18/09/2021
	<b>Next Cali. Due Date</b>	: 17/09/2022
	<b>Certificate Issue Date</b>	: 18/09/2021

**UUC Description :**

<b>Output</b>	: DIGITAL/ANALOG
<b>Item</b>	: NON CONTACT PYROMETER WITH INDICATOR
<b>Calibration Required At</b>	: 210, 500, 700, 1000 & 1200 °C
<b>Inst. Sr. No.</b>	: A2B-001862
<b>Inst. Id. No.</b>	: NCQC/T-93
<b>Make &amp; Model</b>	: AST & AST A250 PL
<b>Temp. Range</b>	: 210 to 1350 °C
<b>Least Count</b>	: 0.1/1 °C
<b>Emissivity</b>	: 0.99
<b>Condition of Item</b>	: Satisfactory
<b>Location</b>	: At Lab

**Calibration Procedure :** The UUC was checked on a Black Body Furnace which was allowed to be stable at specified temperature points. The reading of Standard and UUC were recorded. The report provides the reading and deviation. As per Work Instruction No. : WI-LAB-1

The pyrometer has been compared with the following working standards of sensor & measuring instrument.

Standards	Traceable To	Certificate No.	Valid Up to
Master RTD Standard Pyrometer Calsys 500BB Calsys 1200BB PRECISION THERMOMETER	TEMPESENS, UDAIPUR NPL, New Delhi	TL/021/841.1.1 20060161/D1.03/C-070	26.08.2022 29.07.2022
	YMPL, UDAIPUR	YMPL/329553/117617	22.06.2022


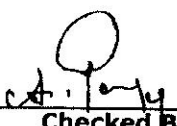

The Standards used for calibration is traceable to National / International Standard.  
The Results of calibration are as under :

Sr. No.	Standard Sensor °C	UUC °C	Dev. °C	Expanded uncertainty (± °C)
1	209.89	210.1	0.21	1.80
2	499.74	500.2	0.46	3.50
3	699.40	700.5	1.10	3.50
4	998.05	1000	1.95	3.50
5	1198.02	1201	2.98	3.50

Temperature Scale: ITS-90

Ambient Temp. : 25±2 °C

Relative Humidity : 50±20 %RH

 Calibrated By	 Checked By	 Certified By
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**Note:**

- The calibration results reported in this certificate are valid at the time of and under the stated condition of measurement for the particular sample.
- The report shall not be reproduced except in full, without written permission of the laboratory
- Coverage factor "k" = 2 at approx 95.45% confidence level.
- Next Calibration Due Date mentioned as per customer requirement