



# TEMPSENS CALIBRATION CENTRE

A Division of Tempsens Instruments (I) Pvt. Ltd.  
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Calibration Certificate No. : TL/022/1068.1.1  
ULR No. : CC284022000007061F

Discipline: Thermal

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M/S NATIONAL CENTRE FOR QUALITY CALIBRATION 4, ABHISHREE CORPORATE PARK, NEAR SWAGAT BUNGALOW BRTS, ISKCON-AMBLI ROAD, AMBLI, AHMEDABAD - 380058 GUJARAT, INDIA	J.O.NO. : T/222/2/21130 Received Date : 25/09/2022 Calibration Date : 26/09/2022 Next Cali. Due Date : 25/09/2023 Certificate Issue Date : 27/09/2022
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### UUC Description :

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

**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
STANDARD RTD	TEMPSENS, UDAIPUR	TL/022/951.1.1	24.08.2023
STANDARD PYROMETER	NPL, NEW DELHI	22070396/D1.03/C-068	08.09.2024
PRECISION THERMOMETER Calsys 500BB Calsys 1200BB	YMPL, UDAIPUR	YMPL/335943/126362	06.07.2023

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	210.25	210.6	0.35	1.75
2	499.64	500.4	0.76	2.50
3	699.32	700.8	1.48	3.20
4	998.77	1001	2.23	3.20
5	1198.82	1202	3.18	3.20

\*\* Deviation = UUC Readings - Standard Readings

Temperature Scale: ITS-90 Ambient Temp. : 25±2 °C Relative Humidity : 50±20 %RH

 Valid up to 25/09/2023 Reviewed Calibrated By	 Checked By	 Certified By Harish Kumar Kharol (Asst. Quality Manager)
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- Note:**
- (1) The calibration results reported in this certificate are valid at the time of and under the stated condition of measurement for the particular sample.
  - (2) The report shall not be reproduced except in full, without written permission of the laboratory
  - (3) Coverage factor "k" = 2 at approx 95.45% confidence level.
  - (4) Next Calibration Due Date mentioned as per customer requirement

NCQC System Certificate No. 195