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TEMPSSENS CALIBRATION CENTRE  
A Division of Tempsens Instruments (I) Pvt. Ltd.  
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Calibration Certificate No. : TL/023/1116.1.1  
ULR No. : CC284023000005430F

Discipline: Thermal

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M/ S NATIONAL CENTRE FOR QUALITY CALIBRATION 4, ABHISHREE CORPORATE PARK, NEAR SWAGAT BU NGALOW BRTS, ISKCON-AMBLI ROAD, AMBLI, AHMEDABAD - 380058 GUJARAT, INDIA	J.O.NO. : T/223/2/211303 1377 Received Date : 23/09/2023 Calibration Date : 24/09/2023 Next Cali. Due Date : 23/09/2024 Certificate Issue Date : 25/09/2023
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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 : 0.95 UPTO 500°C & 0.99 ABOVE 500 °C  
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 PYROMETER	TEMPSSENS, UDAIPUR	TL/023/260.1.1	24.02.2024
STANDARD PYROMETER Calsys 500BB Calsys 1200BB	NPL, NEW DELHI	22070396/D1.03/C-068	08.09.2024

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	209.78	210.2	0.42	2.00
2	499.36	500.3	0.94	2.70
3	700.22	701.8	1.58	3.80
4	999.35	1002	2.65	3.80
5	1198.56	1202	3.44	3.80

**\*\* Deviation = UUC Readings - Standard Readings**

Temperature Scale: ITS-90      Ambient Temp. : 25±4 °C      Relative Humidity : 50±20 %RH

NCQC Valid up to 23/09/2024 Reviewed *[Signature]*

NCQC System Certificate No. 195

Calibrated By *[Signature]* Checked By *[Signature]* Certified By *[Signature]*  
Alpesh Parakh  
Technical Manager

- 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  
Valid up to 23-09-2024  
Reviewed *[Signature]*

NCQC System Certificate No. 195