

Calibration Certificate No. : TL/022/1068.1.2
ULR No. : CC284022000007062F

Discipline: Thermal
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M/S NATIONAL CENTRE FOR QUALITY CALIBRATION 4, ABHISHREE CORPORATE PARK, NEAR SWAGAT BUNGALOW BRIS, 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

UUC Description :

Output	: DIGITAL
Item	: NON CONTACT PYROMETER
Calibration Required At	: 50, 100, 200 & 250 °C
Inst. Sr. No.	: E6112041113
Inst. Id. No.	: NCQC/T-97
Make & Model	: AST & TCT-500
Range	: -60 to 500 °C
Least Count	: 0.1/1 °C
Identification of Calibration	: RECALIBRATION
Emissivity	: 0.95
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	TEMPESENS, UDAIPUR	TL/022/951.1.1	24.08.2023
PRECISION THERMOMETER	YMPL, UDAIPUR	YMPL/335943/126362	06.07.2023
CALSYS 500BB			

The Standards used for calibration is traceable to National / International Standard.

The Results of calibration are as under :


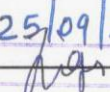


Sr. No.	Standard Sensor °C	UUC °C	Dev. °C	Expanded uncertainty (±°C)
1	50.26	50.5	0.24	1.75
2	99.88	100.6	0.72	1.75
3	199.45	200.7	1.25	1.75
4	249.10	250.7	1.60	1.75

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

Temperature Scale: ITS-90

Ambient Temp. : 25±2 °C

Relative Humidity : 50±20 %RH

 Calibrated By	NCQC Valid up to 25/09/2023 Reviewed 	 Checked By	 Certified By Harish Kumar Kharol (Asst. Quality Manager)
	(Note: The signature of the Calibrated By is partially obscured by the NCQC stamp.)		

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

NCQC System Certificate No. 194