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TEMPESENS CALIBRATION CENTRE

A Division of Tempsens Instruments (I) Pvt. Ltd.
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Calibration Certificate No. : TL/023/321.1.1
ULR No. : CC284023000001882F

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 : 11/03/2023 Calibration Date : 11/03/2023 Next Cal. Due Date : 10/03/2024 Certificate Issue Date : 11/03/2023
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UUC Description :

Output : DIGITAL
Item : NON CONTACT PYROMETER
Calibration Required At : 50, 100, 200, 400 & 500 °C
Inst. Sr. No. : 54610139MV
Inst. Id. No. : NCQC/T-266
Make & Model : FLUKE & 62 max+
Range : -30 to 650°C
Least Count : 0.1°C
Identification of Calibration : INITIAL
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 This Certificate Format No. is F-Lab-7
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
STANDARD PYROMETER	NPL, NEW DELHI	22070396/D1.03/C-069	08.09.2024
DIGITAL 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	49.82	50.1	0.28	1.75
2	99.35	99.7	0.35	1.75
3	199.85	200.6	0.75	1.75
4	398.90	400.1	1.20	3.00
5	499.50	501.2	1.70	3.90

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

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

Calibrated By Checked By Certified By
Harish Kumar Kharol
(Asst. Quality 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 System Certificate No. 443

NCQC
Valid up to 10-03-2024 up to 10-03-2024
Reviewed Reviewed

NC System Certificate No. 443