

TRUE COPY



TEMPESENS CALIBRATION CENTRE

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Calibration Certificate No. :TL/023/321.1.1
ULR No. : CC284023000001882F

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Discipline: Thermal

Table with 2 columns: Lab Address (M/S NATIONAL CENTRE FOR QUALITY CALIBRATION...) and J.O.NO. details (Received Date, Calibration Date, Next Cali. Due Date, Certificate Issue Date).

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.

Table with 4 columns: Standards, Traceable To, Certificate No., Valid Up to. Lists standards like STANDARD RTD, STANDARD PYROMETER, DIGITAL THERMOMETER, CALSYS 500BB and their traceability to TEMPESENS, NPL, and YMPL.

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

Table with 5 columns: Sr. No., Standard Sensor (°C), UUC (°C), Dev. (°C), Expanded uncertainty (±°C). Shows calibration results for 5 different standard sensors.

** Deviation = UUC Readings - Standard Readings

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

Signatures for Calibrated By, Checked By, and 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 Reviewed [Signature]