



TEMPESENS CALIBRATION CENTRE

A Division of Tempsens Instruments (I) Pvt. Ltd.

B-188A, ROAD NO. 5, M.I.A., UDAIPUR-313003 INDIA

☎ : +91-294-3057724, 3057700 Fax: +91-294-2492447, 3057750

E-mail : lab@tempsens.com, Website : www.tempsens.com

TEMPESENS

Calibration Certificate No. : TL/220/773.1.1
ULR No. : CC28402000005102F

M/S NATIONAL CENTRE FOR QUALITY CALIBRATION	J.O.NO. : T/220/2/2113003206
4, ABHISHREE CORPORATE PARK, NEAR SWAGAT BUNGALOW BRTS, ISKCON-AMBLI ROAD, AMBLI, AHMEDABAD – 380058 GUJARAT, INDIA	Received Date : 26/09/2020
	Calibration Date : 29/09/2020
	Next Cali. Due Date : 28/09/2021
	Certificate Issue Date : 29/09/2020

UUC Description :

Output	: DIGITAL/ANALOG
Item	: INFRARED 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
Emissivity	: 0.99
Condition of Item	: Satisfactory
Location	: At Lab

NCQC
Valid up to 28/09/2021
Reviewed

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 NPL, New Delhi	TL/220/668.1.1	01.09.2021
Standard Pyrometer Calsys 500BB Calsys 1200BB		20060161/D1.03/C-070	29.07.2022
PRECISION THERMOMETER	YMPL, Udaipur	YMPL/319215/109614	02.07.2021

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	209.81	210.2	0.39	1.75
2	499.60	500.3	0.70	2.50
3	699.29	700.7	1.41	2.70
4	998.57	1001	2.43	2.70
5	1198.15	1202	3.85	2.70

Temperature Scale: ITS-90

Ambient Temp. : 25±2 °C

Relative Humidity : 50±20 %RH

Calibrated By

Checked By

Certified By
Harish Kumar Kharol
(Asst. Quality Manager)

NCQC System Certificate No 195

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