



CALIBRATION CERTIFICATE

Certificate No.:-	EIE/T/23283	ULR No.:-	CC22222350000280F	Page No 1 of 2
SRF No:	Job Card No:	Calibration Date	Recommended Calibration Due Date	Certificate Issue Date
EIE/230306	231271	28/02/2023	27/02/2024	28/02/2023

Customer Name & Address : NATIONAL CENTRE FOR QUALITY CALIBRATION
4, ABHISHREE CORPORATE PARK, NEAR SWAGAT
BUNGLOW BRIS, ISKCON-AMBLI ROAD, AMBLI,
AHMEDABAD, GUJARAT, 380058

Instrument received on : 28/02/2023

Details of Unit Under Calibration

Name of Instruments	: 4 Wire RTD with Indicator			
Sensor Make / Model	: Tempens / TPRT-100	Sensor Sr. No. / ID No.	: 21000415 / NCQC/T-208	
Range	: -200 to 400 °C	Accuracy	: Class 1	
Resolution	: 0.01 °C	Indicator Sr. No. / ID. No.	: 18050184 / NCQC/E-21	
Length / Dia. Of Sensor	: 450 mm / 6 mm	Immersion Depth	: 150 mm	
Calibration Range	: -80,0,100,200,400 °C	Indicator Make / Model	: Masibus / UC-12	

Condition on Receipt : Good
Calibration Location : Thermal Calibration Laboratory
Reference Work Instruction Number : EIE/W/T/002
Environmental condition : Temperature - (25 ± 3) °C
Humidity - (40 to 60) % RH

Standard Used :

Nomenclature	Range	Make / ID No:	Uncertainty	Certificate No:	Calibration Due Date	Traceable By
Digital Thermometer Read out (Chub E-4)	0 to 400 Ω	Fluke / EIE/CAL/DTR/01	±0.012 Ω @400 Ω	C&I/CAL/ 23-02/030	03/02/2024	C & I Rajasthan
Semi Standard Platinum Resistance Thermometer	-200 to 670 °C	Tempens/ EIE/CAL/SSPRT/01	± 0.0198 °C @ 660.323 °C	M-220609-11-1	25/06/2023	Godrej, Mumbai

The Standards used are traceable to National / Internation standards

Calibrated By

Bipin Goswami
Sr. Calibration Engineer



EIE/F/LAB/022.05 Issue Date 01/01/2022

Approved By

Bhadresh Patel
Calibration Head

NCQC System Certified No. 427

Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,
Near Gujarat College, Ellisbridge,
Ahmedabad-380 006.
Phone: (079) 6671 1234
Website: www.eieinstruments.com

Calibration Laboratory:

B-14, Zaveri Industrial Estate, Opp. Shyam Villa,
Singaria-Kathwada Road,
Kathwada, Ahmedabad-382 430.
Phone: (079) 6604 0660 • Fax: (079) 6604 0600
E-mail: info@eieinstruments.com

GST TIN No. : 24AABCE4018L1ZU
IT. PAN No. : AABCE 4018L
IEC No. : 0813026598 Dt. 04/03/2014
CIN No. : U29199GJ2004PTC046078



EIE INSTRUMENTS PVT. LTD.

(NABL Accredited Laboratory as per ISO/IEC 17025)



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Calibration Observation table : (Thermal Calibration)

Sr. No.	Calibration point °C	Reading on Standard * °C	Reading Observed on UUC * °C	Error °C	± Expanded Uncertainty °C
1	-80	-79.930	-80.03	-0.100	0.09
2	0	0.078	-0.06	-0.138	0.09
3	100	100.082	99.95	-0.132	0.13
4	200	200.127	199.95	-0.177	0.14
5	400	400.138	399.92	-0.218	0.60

Remarks:

- (*) Indicates average of five readings.
- Recommended due date is given based on customer requirements.
- Calibration points Mentioned as per the Customer requirement
- Calibration is performed as per Temperature Scale ITS-90.
- The calibration results reported in this certificate are valid at the time of calibration
- The Reported measurement uncertainty is estimated at a level of confidence of approximately 95% at k=1.96
- The value has been rounded - off as per IS 2:1960 wherever applicable.
- UUC: Unit Under Calibration.

Notes:

- This calibration certificate refers only to the particular item(S) submitted for calibration.
- This certificate shall not be re-produced, except in full without the prior permission from EIE INSTRUMENTS PVT. LTD.

Calibrated By

Bipin Goswami
Sr. Calibration Engineer



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Approved By

Bhadresh Patel
Calibration Head

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