

TRUE COPY

Calibration Certificate No.: TL/021/926.1.1
ULR No.: CC284021000005002F

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M/S NATIONAL CENTRE FOR QUALITY CALIBRATION 4, ABHISHREE CORPORATE PARK, NR SWAGAT BUNGALOWS, BRTS, ISKCON-AMBALI ROAD, AMBALI AHMEDABAD-380058, GUJARAT, INDIA	J.O.NO. : T-I/221/2/2113011396 Received Date : 17/09/2021 Calibration Date : 17/09/2021 Next Cali. Due On : 16/09/2022 Issue Date : 18/09/2021
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Sample Description :

Calibration Required At	: -196, -80, 0, 100, 200 & 400°C
Item	: PT100X1, SIMPLEX, 4 WIRE RTD WITH INDICATOR
Inst. Sr. No. & ID. No.	: 22000184 & NCQC/T-234
Indi. Sr. No. & ID. No.	: 18K587909 & NCQC/T-178
Indi. Make & Model	: TEMPESENS & TEMPMET-09
Length & Dia	: 450MM & 6MM
Resolution	: 0.001°C
Accuracy	: CLASS A
Range	: -196 TO 400°C
Location	: AT Lab
Condition of item	: Satisfactory

Calibration Procedure : The UUC was allowed to be stable at specified temperature points. The reading of Standard and UUC was recorded. This Certificate Format No. F-LAB-6 The report provides the reading and deviation. As per Work Instruction no. WI-LAB-16. Temperature (in °C) against RTD reading (in Ohms) are calculated by using ASTM-E-1137/E1137M-04. Minimum Immersion depth for RTD is 100 MM.

The UUC has been compared with the following working standards of sensor & measuring instrument.

Standards	Traceable To	Certificate No.	Valid Up to
SSPRT PRECISION THERMOMETER LN2 APP CALSYS -80/50 CALSYS 300 CALSYS 650	TEMPESENS, UDAIPUR YMPL, UDAIPUR	TL/021/493.2.1 YMPL/335943/126362	28.05.2022 06.07.2023

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	-195.050	-194.701	0.349	0.10
2	-79.700	-79.455	0.245	0.10
3	0.110	0.180	0.070	0.10
4	99.800	100.085	0.285	0.10
5	199.750	200.190	0.440	0.20
6	399.560	400.210	0.650	0.20

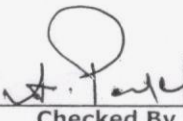
Temperature Scale: ITS - 90

Ambient Temp. : 25±2°C

Relative Humidity : 50±20%RH

NCQC
Valid up to 16-09-2022
Reviewed


Calibrated By


Checked By


Certified By
Alpesh Parakh
Technical Manager

NCQC System Certificate No. 398

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