

Calibration Certificate No.: TL/020/714.1.1  
ULR No.: CC28402000004545F

**TRUE COPY**

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M/S NATIONAL CENTRE FOR QUALITY CALIBRATION 4, ABHISHREE CORPORATE PARK, NEAR SWAGAT BUNGALOW BRIS, ISKCON- AMBALI ROAD, AMBALI, AHMEDABAD - 380058, GUJRAT, INDIA	J.O.NO. Received Date Calibration Date Recomm. Date for Next. Cali. Certificate Issue Date	T-I/220/2/2113002663 17/09/2020 17/09/2020 16/09/2021 17/09/2020
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<b>Sample Description :</b> One Sample Described as 4 WIRE RTD WITH INDICATOR <b>Sr. No. :</b> 21000415 <b>Id.No.:</b> NCQC/T-208 <b>Inst.Make:</b> TEMPESENS <b>Inst.Model:</b> TPRT-100 <b>Indi. Sr No.:</b> 18K587909 <b>Indi. Id. No.:</b> NCQC/T-178 <b>Indi. Make:</b> TEMPESENS <b>Indi.Model:</b> TEMPMET-09 <b>Accuracy:</b> CLASSA <b>Range:</b> -196 TO 400°C <b>Length:</b> 450MM <b>Dia:</b> 6MM <b>Resolution:</b> 0.001°C <b>Minimum Immersion :</b> 100MM	<b>Calibration Required at :</b> -196, -80, 0, 100, 200 & 400°C			
	<b>Standard Sensor in (°C)</b>	<b>UUC in (°C)</b>	<b>Dev in (°C)</b>	<b>Expanded Uncertainty (± °C)</b>
	-195.611	-195.994	-0.383	0.10
	-79.555	-79.798	-0.243	0.10
	0.060	0.010	-0.050	0.10
	99.997	99.722	-0.275	0.10
	199.980	199.511	-0.469	0.20
	399.777	399.112	-0.665	0.20

**Calibration Procedure :** The UUC was allowed to be stable at specified temperature points. The reading of Standard and UUC was recorded. 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. This Certificate Format No. is F-Lab-6.

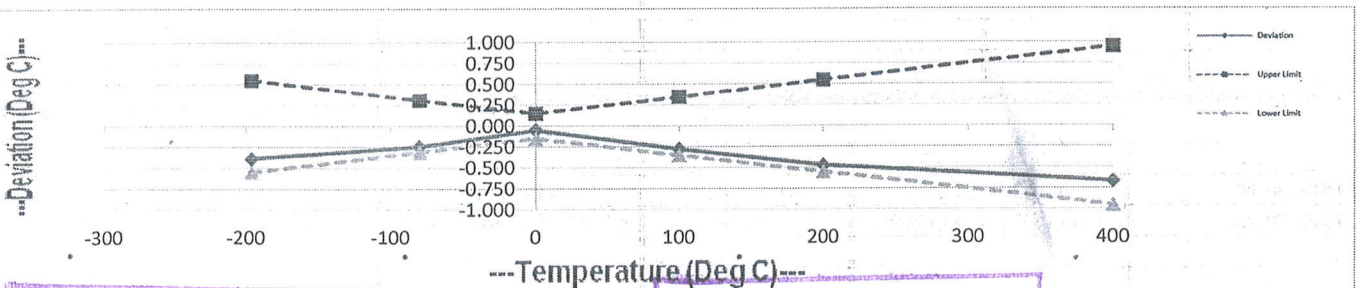
The UUC has been compared with the following working standards of sensor & Measuring instruments

Standards	Traceable To	Certificate No.	Valid Upto
MASTER SSPRT	TEMPESENS	TL/020/322.1.1	01.06.2021
DIGI. THERMOMETER	YMPL	YMPL/319215/109614	02.07.2021
LN2 APP			
CALSYS -80/50			
CALSYS 300			
CALSYS 650			

Temperature Scale: ITS - 90

Ambient Temp. : 25±2°C

Relative Humidity : 50±20%RH



NCQC System Certificate No. 379

NCQC  
Valid up to 16/09/2021  
Reviewed

Calibrated By: *[Signature]*

Checked By: *[Signature]*

Asst. Quality Manager: *[Signature]*  
H. K. Kharol  
(Asst. Quality Manager)

**Remarks:**

- The calibration results reported in this certificate are valid at the time of and under the stated condition of measurement for the particular sample.
- The report shall not be reproduced except in full, without written permission of the laboratory
- Coverage factor "k" = 2 at approx 95.45% confidence level.
- Next Calibration Due Date mentioned as per customer requirement