



TEMPESENS CALIBRATION CENTRE

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

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M/S NATIONAL CENTRE FOR QUALITY CALIBRATION 4, ABHISHREE CORPORATE PARK, NEAR SWAGAT BUNGALOW BRTS, ISKCON- AMBALI ROAD, AMBALI, AHMEDABAD - 380058, GUJRAT, INDIA	J.O.NO. Received Date	T-I/220/2/2113002663 17/09/2020
	Calibration Date	17/09/2020
	Recomm. Date for Next. Cali.	16/09/2021
	Certificate Issue Date	17/09/2020

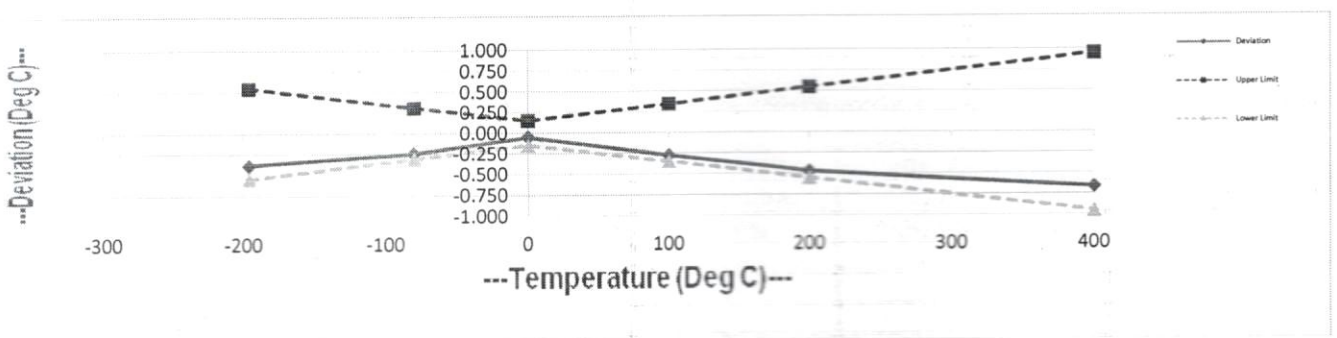
Sample Description : One Sample Described as 4 WIRE RTD WITH INDICATOR Sr. No. : 21000415 Id.No.: NCQC/T-208 Inst.Make: TEMPESENS Inst.Model: TPRT-100 Indi. Sr No.:18K587909 Indi. Id. No.: NCQC/T-178 Indi. Make: TEMPESENS Indi.Model: TEMPMET-09 Accuracy: CLASSA Range: -196 TO 400°C Length: 450MM Dia:6MM Resolution: 0.001°C Minimum Immersion : 100MM	Calibration Required at : -196, -80, 0, 100, 200 & 400°C			
	Standard Sensor in (°C)	UUC in (°C)	Dev in (°C)	Expanded Uncertainty (± °C)
	-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 **ASTME-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



Calibrated By: *[Signature]*
 Checked By: *[Signature]*
 Certified By: *[Signature]* (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