



TRUE COPY
NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad-380 058
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CC-2128

Precision Calibration with National / International Traceability for Temperature, Dimensional, Pressure, Vacuum, Time, Mass, Electrical, Noise, Airflow, Lux & all Special Purpose Instruments in all ranges.

Calibration Certificate				F/CR/T/002/04 Issue No. 02		
Name of Customer National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat		Certificate No. NCQC-T/200923/004 Date of Issue 20/09/2023 Date of Calibration 20/09/2023 Suggested Due Date 19/09/2024 Date of Receipt / Ref.No.: 20/09/2023				
ULR No. : CC212823000007737F		Discipline : Thermal Calibration Temperature				
Details of Observation of Unit Under Calibration		Identification No. : Sensor ID No : NCQC/T - 234 & Indicator ID No: NCQC/T-178 Serial No. : Sensor Sr No : 22000184 & Indicator Sr No: 18K587909 Name of Instrument : PT100X1, Simplex, 4 Wire RTD With Indicator				
Range -196 to 400 °C Resolution 0.001 °C Make / Model As Per Remarks Location Laboratory	Initial Error Nil Visual Inspection OK Accuracy Class A Type / Size Pt-100					
Loc. of Calibration At Laboratory Environment Cond. 25 ± 5 °C, 30 to 75 % Rh Actual Env. Cond. 25.3 °C 50.0 %Rh	Std. Ref. Used DKD-R-5-1, ASTM E220 Cali. Method No. NCQC/CM/T/002					
Master Instruments Detail						
NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
439	SSPRT	Fluke / 5609	NCQC/T-264 / 08763	Fluke Calibration	4500022817-1	19/12/2023
441	Super DAQ Precision Temperature Scanner	Fluke / 1586A	NCQC/T-237 / 58995033	Fluke Calibration	1500340374-1	22/09/2023
Calibration Results						
Reading observed by UUC in °C	Reading observed by Master instrument in °C	Absolute Error in °C	Expanded Uncertainty in °C (k =2)			
-195.736	-195.881	0.145	± 0.20			
-79.728	-79.836	0.108	± 0.42			
-30.225	-30.133	0.092	± 0.08			
0.136	0.060	0.076	± 0.08			
100.319	100.167	0.152	± 0.08			
200.436	200.214	0.222	± 0.25			
399.578	399.821	0.243	± 0.25			
Traceable To National / International Standards.						
Calibrated By Himanshu Parbadiya Calibration Engineer			Reviewed & Approved By Vishal Chauhan Calibration Incharge			

NCQC System Certificate No 398

NCQC DEFINES CALIBRATION AS "PRECISION AND RELIABILITY OF INSTRUMENTS FOR YOUR BETTER TOMORROW"

NCQC System Certificate No 398

NCQC
 Valid up to 19-09-2024
 Reviewed



Since 1998

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Remarks: <ul style="list-style-type: none"> • Make/Model: Sensor:Tempsens/===; Indicator:Tempsens/Tempmet - 09 • Averages of minimum five readings are reported. • Identification Of Calibration: Recalibration. • Length & Diameter: 450 mm & 6 mm. • AS Left: No Adjustment Done, AS Found Data Is Left As it is. • Correction Factor = Standard Reading - UUC Readings • Suggested due date is given based on customer requirements • Condition of instrument found satisfactory during receipt. • These results are obtained at the time of calibration. • Result relates to the item calibrated only. • No external provider was used for calibration and hence it is not applicable. • Calibration certificate shall not be reproduced except in full without written approval of Director, NCQC. • Any hand written corrections (except @) or photocopies of the report invalidates this certificate. • Reference calibration standard DKD-R-5-1, ASTM E220-13, EURAMET cg-8. • The uncertainties are for a confidence probability of not less than 95% with coverage factor k = 2 • Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with National / international standard. • Temperature Calibrator, Dry Block Calibrator & Dry Block Furnace were used as a source of generating temperature as well as controlling temperature at specified set point. • Liquid Nitrogen was used for generating temperature of -196 °C 		
Traceable To National / International Standards.		
Calibrated By	 Himanshu Parbadiya Calibration Engineer	Reviewed & Approved By Vishal Chauhan Calibration Incharge