



NATIONAL CENTRE FOR QUALITY CALIBRATION

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

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Visit our Web Site : www.calibrationlaboratory.in



CC-2128

Since 1998

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/010/02 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/290124/013
	Date of Issue	31/01/2024
	Date of Calibration	29/01/2024
	Suggested Due Date	28/01/2025
Date of Receipt / Ref.No.: 26/01/2024		

ULR No. : CC21282400000491F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-162
	Serial No. : EF7186H00537
	Name of Instrument : Temperature & Rh Data Logger

Range	0 to 100 % RH	Visual Inspection Accuracy	OK ±3% RH 20 to 80% & Other ±5 % RH
Resolution	0.1 % RH		
Make / Model	Elitech/RC - 4HC	Location Laboratory	

Loc. of Calibration	At Laboratory	Std. Ref. Used	NIST 250-83
Environment Cond.	25 ± 4 °C, 30 to 75 % RH	Cali.Method No.	NCQC/CM/T/010
Actual Env. Cond.	25.7 °C 52.7 %Rh		

Master Instruments Detail

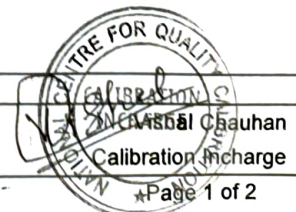
NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
335	Digital thermo Hygro Palm	Rotronic / HP32	NCQC/T-161/ 5181935 / 20281776	CC-2733	30070326	05/07/2024
435	4 wire RTD with Indicator.	RTD - Tempsens / ====, Indicator - Tempsens / TEMPMET-09-02	RTD-NCQC/T-235 / 23000299, Indicator - NCQC/T-236 / T0064	CC-2128	NCQC-T/190923/001	18/09/2024

Calibration Results of Humidity @ 25 °C

Set point on Hybrid Temperature and Humidity Calibrator in % Rh	Reading observed by UUC in % Rh	Reading observed by Master instrument in % Rh	Absolute Error in % Rh	Expanded Uncertainty in % Rh (k =2) ±
20	20.6	20.11	0.49	1.85
40	41.0	40.19	0.81	1.85
60	61.3	60.36	0.94	1.85
80	82.4	80.51	1.89	1.85
95	98.1	95.58	2.52	1.85

Traceable To National / International Standards.

Calibrated By	 Himanshu Parbadiya Calibration Engineer	Reviewed & Approved By	 Himanshu Parbadiya Calibration Incharge
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NCQC System Certificate No. 337

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



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F/CR/T/010/02 Issue No. 02

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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-162
	Serial No. : EF7186H00537
	Name of Instrument : Temperature & Rh Data Logger

Range	-30 to 60 °C	Accuracy	± 0.5 °C
Least Count	0.1 °C		

Calibration Results of Temperature

Set point on Hybrid Temperature and Humidity Calibrator in °C	Reading observed by UUC in °C	Reading observed by Master instrument in °C	Absolute Error in °C	Expanded Uncertainty in °C (k =2) ±
-25.0	-25.5	-25.143	0.357	0.44
-10.0	-10.4	-10.115	0.285	0.44
0.0	0.1	-0.024	0.124	0.44
10.0	10.2	10.035	0.165	0.44
30.0	30.3	30.050	0.250	0.44
50.0	50.4	50.066	0.334	0.44

Remarks:

- Averages of minimum five readings are reported.
- Suggested due date is given based on customer requirements
- Calibration Points are 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.
- 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.
- Portable Hybrid temperature and Humidity calibrator was used as a source of generating temperature and humidity as well as controlling temperature at specified set point.

Traceable To National / International Standards.

Calibrated By	 Himanshu Parbadiya Calibration Engineer	Reviewed & Approved By	 Vishal Chauhan Calibration Incharge
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