



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/290124/009

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. : CC21282400000487F

Discipline : Thermal Calibration
Specific Heat and Humidity

Details of Observation of Unit Under Calibration

Identification No. : NCQC/T-163

Serial No. : EF7186H00538

Name of Instrument : Temperature & Rh Data Logger

Range

0 to 100 % Rh

Resolution

0.1 % Rh

Make / Model

Elitech/RC - 4HC

Location

Laboratory

Visual Inspection

OK

Accuracy

±3% RH 20 to 80% & Other ±5 % RH

Loc. of Calibration

At Laboratory

Environment Cond.

25 ± 4 °C, 30 to 75 % Rh

Actual Env. Cond.

25.7 °C 52.0 %Rh

Std. Ref. Used

NIST 250-83

Cali.Method No.

NCQC/CM/T/010

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 - Tempens / ====, Indicator - Tempens / 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	20.4	20.12	0.28	1.85
40	40.9	40.20	0.70	1.85
60	61.5	60.39	1.11	1.85
80	82.1	80.52	1.58	1.85
95	97.5	95.63	1.87	1.85

Traceable To National / International Standards.

Calibrated By

Himanshu Parbadiya
Calibration Engineer

Reviewed & Approved By



M. S. Chauhan
Calibration Incharge

★ Page 1 of 2

NCQC System Certificate No. 338

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



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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/290124/009
	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. : CC21282400000487F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-163
	Serial No. : EF7186H00538
	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	-25.6	-25.146	0.454	0.44
-10.0	-10.4	-10.094	0.306	0.44
0.0	0.2	-0.023	0.223	0.44
10.0	10.2	10.036	0.164	0.44
30.0	30.4	30.047	0.353	0.44
50.0	50.5	50.075	0.425	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

Page 2 of 2