



Since 1998

# 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

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**TRUE COPY**

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

<b>Name of Customer</b> 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/290124/002
	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. : CC21282400000480F	Discipline : Thermal Calibration Specific Heat and Humidity
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<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/T-154
	Serial No. : 3353
	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/CMT/010
Actual Env. Cond.	25.7 °C      53.0 %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 - 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) ±
20.0	20.7	20.11	0.59	1.85
40.0	41.4	40.13	1.27	1.85
60.0	62.1	60.28	1.82	1.85
80.0	82.5	80.39	2.11	1.85
95.0	98.1	95.47	2.63	1.85

**NCQC System Certificate No 318**

Traceable To National / International Standards.

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

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

<b>Name of Customer</b> <b>National Centre for Quality Calibration</b> 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat	Certificate No. NCQC-T/290124/002 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. : CC212824000000480F	Discipline : Thermal Calibration Specific Heat and Humidity
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<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/T-154
	Serial No. : 3353
	Name of Instrument : Temperature & Rh Data Logger

Range -30 to 60 °C Least Count 0.1 °C	Accuracy ± 0.5 °C
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### 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	-24.8	-25.162	0.362	0.44
-10.0	-9.9	-10.117	0.217	0.44
0.0	-0.1	-0.047	0.053	0.44
10.0	10.2	10.037	0.163	0.44
30.0	30.3	30.059	0.241	0.44
50.0	50.5	50.096	0.404	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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