



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

Since 1998

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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

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/290124/008
	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. : CC21282400000486F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-160
	Serial No. : 3359
	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.	25.6 °C 52.0 %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 - 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) ±
20.0	20.4	20.09	0.31	1.85
40.0	41.1	40.17	0.93	1.85
60.0	61.9	60.25	1.65	1.85
80.0	82.3	80.42	1.88	1.85
95.0	92.8	95.52	2.72	1.85

NCQC System Certificate No. 324

Traceable To National / International Standards.

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

F/CR/T/010/O2 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/290124/008
	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. : CC21282400000486F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-160
	Serial No. : 3359
	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	-24.8	-25.122	0.322	0.44
-10.0	-9.9	-10.088	0.188	0.44
0.0	-0.1	0.024	0.124	0.44
10.0	9.9	10.034	0.134	0.44
30.0	29.8	30.052	0.252	0.44
50.0	49.6	50.077	0.477	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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