



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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Visit our Web Site : [www.calibrationlaboratory.in](http://www.calibrationlaboratory.in)



CC-2128

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

## Calibration Certificate

F/CR/T/O 10/03 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/170223/004
	Date of Issue	18/02/2023
	Date of Calibration	17/02/2023
	Suggested Due Date	16/02/2024
Date of Receipt / Ref.No.: 16/02/2023		

ULR No. : CC212823000000715F	Discipline : Thermal Calibration Specific Heat and Humidity
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<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/T – 166
	Serial No. : EF7186H00541
	Name of Instrument : Temperature & Humidity Data Logger

Range	0 to 99 % Rh	Visual Inspection Accuracy	OK ± 5 % Rh
Resolution	0.1 % Rh		
Make / Model	Elitech/RC-4HC		
Location	Laboratory		

Loc. of Calibration	At Laboratory	Std. Ref. Used	
Environment Cond.	25 ± 4 °C, 30 to 75 % Rh	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	30056028	05/07/2023
435	4 wire RTD with Indicator	RTD - Tempens / TPRT-100, Indicator - Tempens / TEMPMET-09-02	RTD-NCQC/T-235 / 23000299, Indicator - NCQC/T-236 / T0064	CC-2840	TL/022/1068.2.1	25/09/2023

### 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	20.6	19.94	0.66	3.20
40.0	40.7	39.84	0.86	3.20
50.0	50.6	49.67	0.93	3.20
70.0	70.9	69.71	1.19	3.20
95.0	93.1	94.57	1.47	3.20

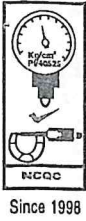
NCQC  
Valid up to 16-02-2024  
Reviewed *Jigar*

Traceable To National / International Standards.

Calibrated By	<i>Vishal</i> Vishal Chauhan Calibration Engineer	Reviewed & Approved By	<i>Jigar</i> Jigar Panchal Calibration Incharge
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NCQC System Certificate No. 341

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<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/T – 166
	Serial No. : EF7186H00541
	Name of Instrument : Temperature & Humidity Data Logger

Range	-30 to 60 °C	Accuracy	± 0.5 °C up to -20 to 40°C & Other ±1°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	-25.3	-25.137	0.163	0.78
-15.0	-15.2	-15.110	0.090	0.78
0.0	0.0	0.015	0.015	0.78
10.0	10.3	10.178	0.122	0.78
30.0	30.3	30.133	0.167	0.78
50.0	50.4	50.186	0.214	0.78

- 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.
  - 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	 Vishal Chauhan Calibration Engineer	Reviewed & Approved By	 Jigar Panchal Calibration Incharge
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