



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

**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	<b>Certificate No.</b> NCQC-T/290124/005	<b>Date of Issue</b> 31/01/2024 <b>Date of Calibration</b> 29/01/2024 <b>Suggested Due Date</b> 28/01/2025
	<b>Date of Receipt / Ref.No.:</b> 26/01/2024	

<b>ULR No. :</b> CC21282400000483F	<b>Discipline :</b> Thermal Calibration Specific Heat and Humidity
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<b>Details of Observation of Unit Under Calibration</b>	<b>Identification No. :</b> NCQC/T-157
	<b>Serial No. :</b> 3356
	<b>Name of Instrument :</b> Temperature & Rh Data Logger

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

<b>Loc. of Calibration</b>	At Laboratory	<b>Std. Ref. Used</b>	NIST 250-83
<b>Environment Cond.</b>	25 ± 4 °C, 30 to 75 % Rh	<b>Cali.Method No.</b>	NCQC/CM/T/010
<b>Actual Env. Cond.</b>	25.6 °C      51.7 %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 - Tempensens / ====, Indicator - Tempensens / 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	20.6	20.11	0.49	1.85
40.0	41.2	40.16	1.04	1.85
60.0	61.9	60.28	1.62	1.85
80.0	82.4	80.47	1.93	1.85
95.0	98.2	95.52	2.68	1.85

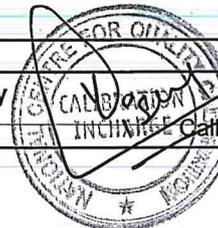
**NCQC System Certificate No. 321**

Traceable To National / International Standards.

Calibrated By

Himanshu Parbadiya  
Calibration Engineer

Reviewed & Approved By



Vishal Chauhan  
Calibration Incharge

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	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. : CC21282400000483F	Discipline : Thermal Calibration Specific Heat and Humidity	

<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/T-157
	Serial No. : 3356
	Name of Instrument : Temperature & Rh Data Logger

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

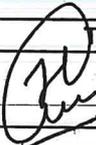
### Calibration Results of Temperature

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	-25.4	-25.143	0.257	0.44
-10.0	-10.3	-10.134	0.166	0.44
0.0	0.1	-0.025	0.125	0.44
10.0	10.3	10.036	0.264	0.44
30.0	30.4	30.060	0.340	0.44
50.0	50.5	50.107	0.393	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  Ishal Chauhan  
Calibration Incharge

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