

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



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/0 - 10/03 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/170223/010	
	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. : CC212823000000714F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T - 157
	Serial No. : 3356
	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 Environment Cond.	At Laboratory 25 ± 4 °C, 30 to 75 % Rh	Std. Ref. Used	NCQC/CM/T/010
		Cali.Method No.	

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

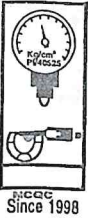
Calibration Results of Humidity @ 25 °C

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	20.5	20.13	0.37	3.20
40.0	40.8	40.18	0.62	3.20
50.0	51.1	50.29	0.81	3.20
70.0	71.2	70.29	0.91	3.20
95.0	96.5	95.41	1.09	3.20

NCQC
 Valid up to 16-02-2024
 Reviewed *[Signature]*

Traceable To National / International Standards.	
Calibrated By <i>[Signature]</i> Vishal Chauhan Calibration Engineer	Reviewed & Approved By <i>[Signature]</i> Jigal Banchal Calibration Incharge

NCQC System Certificate No. 321



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CC-2128

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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T - 157
	Serial No. : 3356
	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	-25.171	0.129	0.78
-15.0	-15.3	-15.124	0.176	0.78
0.0	-0.1	-0.036	0.064	0.78
10.0	10.3	10.170	0.130	0.78
30.0	30.2	30.056	0.144	0.78
50.0	50.2	50.084	0.116	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