



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-2126

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/010/03 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/170223/008	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
	Date of Issue 18/02/2023	
	Date of Calibration 17/02/2023	
	Suggested Due Date 16/02/2024	

ULR No. : CC21282300000713F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T – 158 Serial No. : 3357 Name of Instrument : Temperature & Humidity Data Logger
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Range 0 to 99 % Rh Resolution 0.1 % Rh Make / Model Elitech/RC-4HC Location Laboratory	Visual Inspection Accuracy OK $\pm 5 \% Rh$
Loc. of Calibration Environment Cond. At Laboratory $25 \pm 4 ^\circ C, 30 \text{ to } 75 \% Rh$	Std. Ref. Used 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 - Tempsens / TPRT-100, Indicator - Tempsens / 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) \pm
20.0	20.8	20.15	0.65	3.20
40.0	41.0	40.21	0.79	3.20
50.0	51.1	50.28	0.82	3.20
70.0	71.5	70.29	1.21	3.20
95.0	96.8	95.54	1.26	3.20

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

Traceable To National / International Standards.

Calibrated By <i>Vishal Chauhan</i> Vishal Chauhan Calibration Engineer	Reviewed & Approved By <i>Jigar Panchal</i> Jigar Panchal Calibration Incharge
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NCQC System Certificate No. 322



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Calibration Certificate

F/CR/T/010/03 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/170223/008

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. : CC21282300000713F

Discipline : Thermal Calibration
Specific Heat and Humidity

Details of Observation of Unit Under Calibration

Identification No. : NCQC/T – 158

Serial No. : 3357

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	-25.119	0.181	0.78
-15.0	-15.3	-15.138	0.162	0.78
0.0	0.1	0.059	0.041	0.78
10.0	10.3	10.129	0.171	0.78
30.0	30.3	30.155	0.145	0.78
50.0	50.4	50.195	0.205	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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