NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad-380 058
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E-mail : ncqc@calibrationlaboratory.in, calibrationlab.ncqc@gmail.com
Visit our Web Site : www.calibrationlaboratory.in

Since 1998

CC-2128

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. Date of Issue Date of Calibration Suggested Due Date	NCQC-T/170223/002 18/02/2023 17/02/2023 16/02/2024
	Date of Receipt / Ref.No.:	16/02/2023
ULR No. : CC212823000000717F	Discipline :	Thermal Calibration Specific Heat and Humidity
Details of Observation of Unit Under Calibration	Identification No. Serial No. Name of Instrument	: NCQC/T – 164 : EF7186H00539 : Temperature & Humidity Data Logger

Range Resolution Make / Model Location	0 to 99 % Rh 0.1 % Rh Elitech/RC–4HC Laboratory	Visual Inspection Accuracy	OK ± 5 % Rh
Loc. of Calibration Environment Cond.	At Laboratory 25 ± 4 °C, 30 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) ±
20.0	20.7	20.11	0.59	3.20
40.0	41.0	40.21	0.79	3.20
50.0	51.1	50.26	0.84	3.20
70.0	71.5	70.38	1.12	3.20
95.0	94.1	95.68	1.58	3.20

NCQC
Valid up to 16-02-2024
Reviewed

Traceable To National / International Standards.

Calibrated By	Vishal Chauhan Calibration Engineer
Reviewed & Approved By	Jigar Panchal Calibration Incharge

NCQC System Certificate No. 339

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Calibration Certificate

F/CR/T/010/03 Issue No. 02

Name of Customer	Certificate No. : NCQC-T/170223/002
National Centre for Quality Calibration	Date of Issue : 18/02/2023
4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat	Date of Calibration : 17/02/2023
	Suggested Due Date : 16/02/2024
	Date of Receipt / Ref.No.: 16/02/2023
ULR No. : CC212823000000717F	Discipline : Thermal Calibration, Specific Heat and Humidity

Details of Observation of Unit Under Calibration

Identification No. : NCQC/T – 164
Serial No. : EF7186H00539
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	-25.153	0.147	0.78
-15.0	-15.2	-15.061	0.139	0.78
0.0	0.0	0.014	0.014	0.78
10.0	10.2	10.064	0.136	0.78
30.0	30.3	30.136	0.164	0.78
50.0	50.3	50.171	0.129	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