



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-2128

Since 1998

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/O 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. Date of Issue Date of Calibration Suggested Due Date	NCQC-T/180223/012 20/02/2023 18/02/2023 17/02/2024
		Date of Receipt / Ref.No.: 16/02/2023

ULR No. : CC212823000000735F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T – 168 Serial No. : EF7186H00543 Name of Instrument : Temperature & Humidity Data Logger
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Range	0 to 99 % Rh		
Resolution	0.1 % Rh	Visual Inspection Accuracy	OK ± 5 % 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 - 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	20.6	19.94	0.66	3.20
40.0	40.6	39.85	0.75	3.20
50.0	50.7	49.72	0.98	3.20
70.0	71.1	69.90	1.20	3.20
95.0	93.3	94.63	1.33	3.20

NCQC
Valid up to 17-02-2024
Reviewed: *[Signature]*

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

NCQC System Certificate No 343



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	Date of Issue	20/02/2023
	Date of Calibration	18/02/2023
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Date of Receipt / Ref.No.: 16/02/2023		

ULR No. : CC212823000000735F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T – 168
	Serial No. : EF7186H00543
	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	-25.155	0.145	0.78
-15.0	-15.2	-15.077	0.123	0.78
0.0	0.0	0.014	0.014	0.78
10.0	10.2	10.054	0.146	0.78
30.0	30.2	30.068	0.132	0.78
50.0	50.3	50.107	0.193	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