



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



CC-2128

Since 1998

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.	NCQC-T/200223/011
	Date of Issue	22/02/2023
	Date of Calibration	20/02/2023
	Suggested Due Date	19/02/2024
	Date of Receipt / Ref.No.:	16/02/2023

ULR No. : CC212823000000764F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. :	NCQC/T – 207
	Serial No. :	EF7186H00563
	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	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
398	4 wire RTD with Indicator	RTD - Tempsens / TPRT-100, Indicator - Tempsens / TEMPMET-09	RTD-NCQC/T-234 / 22000184, Indicator - NCQC/T-178 / 18K587909	CC-2222	EIE/T/221082	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	20.12	0.58	3.20
40.0	40.9	40.22	0.68	3.20
50.0	51.1	50.31	0.79	3.20
70.0	71.6	70.42	1.18	3.20
95.0	94.3	95.61	1.31	3.20

NCQC
Valid up to 19-02-2024
Reviewed *Jigjer*

Traceable To National / International Standards.

Calibrated By	<i>[Signature]</i> Chintan Patel Calibration Engineer	Reviewed & Approved By	<i>[Signature]</i> Jigar Panchal Calibration Incharge
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NCQC System Certificate No. 356

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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T – 207
	Serial No. : EF7186H00563
	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	-25.4	-25.215	0.185	0.78
-15.0	-15.3	-15.122	0.178	0.78
0.0	0.0	0.018	0.018	0.78
10.0	10.2	10.081	0.119	0.78
30.0	30.3	30.166	0.134	0.78
50.0	50.4	50.169	0.231	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	Chintan Patel Calibration Engineer	Reviewed & Approved By	Jigar Panchal Calibration Incharge
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