



Since 1998

NATIONAL CENTRE FOR QUALITY CALIBRATION

TRUE COPY

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad-380 058
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CC-2128

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/200223/013	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. : CC212823000000766F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T – 154 Serial No. : 3353 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 $\pm 5 \% \text{ Rh}$
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Loc. of Calibration Environment Cond. At Laboratory 25 \pm 4 $^{\circ}\text{C}$, 30 to 75 % Rh	Std. Ref. Used Cali.Method No. NCQC/CM/T/010
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Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Up to
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 $^{\circ}\text{C}$

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	20.6	20.16	0.44	3.20
40	40.8	40.22	0.58	3.20
50	51.0	50.24	0.76	3.20
70	71.4	70.39	1.01	3.20
95	96.8	95.47	1.33	3.20

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

Traceable To National / International Standards.

Calibrated By Chintan Patel Calibration Engineer	Reviewed & Approved By Jigar Panchal Calibration Incharge
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NCQC System Certificate No. 318



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Calibration Certificate

F/CR/T/0 10/03 Issue No. 02

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	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. : CC212823000000766F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T – 154
	Serial No. : 3353
	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	-25.169	0.131	0.78
-15.0	-15.3	-15.154	0.146	0.78
0.0	0.1	0.019	0.081	0.78
10.0	10.3	10.147	0.153	0.78
30.0	30.3	30.150	0.150	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		Chintan Patel Calibration Engineer	Reviewed & Approved By		Jigar Panchal Calibration Incharge
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