



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](http://www.calibrationlaboratory.in)

Precision Calibration with National / International Traceability for Temperature, Dimension, Pressure, Vacuum, Time, Mass, Electrical, Noise, Airflow, Lux & all Special Purpose Instruments in all ranges.

## Calibration Certificate

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

<b>Name of Customer</b> <b>National Centre for Quality Calibration</b> 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat	Certificate No.	NCQC-T/170223/011
	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. : CC212823000000718F	Discipline : Thermal Calibration Specific Heat and Humidity
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<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/T – 163
	Serial No. : EF7186H00538
	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
435	4 wire RTD with Indicator	RTD - Tempens / TPRT-100, Indicator - Tempens / 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	20.18	0.52	3.20
40.0	40.9	40.24	0.66	3.20
50.0	51.2	50.31	0.89	3.20
70.0	71.4	70.38	1.02	3.20
95.0	94.3	95.46	1.16	3.20

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

Traceable To National / International Standards.

Calibrated By	<i>Vishal Chauhan</i> Calibration Engineer	Reviewed & Approved By	<i>Jigar Panchal</i> Calibration Incharge
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NCQC System Certificate No. 338



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	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. : CC21282300000718F	Discipline : Thermal Calibration Specific Heat and Humidity
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<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/T – 163
	Serial No. : EF7186H00538
	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	-25.141	0.159	0.78
-15.0	-15.2	-15.055	0.145	0.78
0.0	0.0	0.021	0.021	0.78
10.0	10.1	9.955	0.145	0.78
30.0	29.8	29.914	0.114	0.78
50.0	49.7	49.875	0.175	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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