



Since 1998

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



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/O 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/170223/009
	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. : CC212823000000719F	Discipline : Thermal Calibration Specific Heat and Humidity
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<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/T - 156
	Serial No. : 3355
	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	NCQC/CM/T/010
Environment Cond.	25 ± 4 °C, 30 to 75 % Rh		

### 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	20.6	20.05	0.55	3.20
40.0	40.9	40.22	0.68	3.20
50.0	51.2	50.25	0.95	3.20
70.0	71.5	70.33	1.17	3.20
95.0	96.8	95.46	1.34	3.20

NCQC  
Valid up to 16-02-2024  
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. 320



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

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<b>ULR No. :</b> CC212823000000719F	<b>Discipline :</b> Thermal Calibration Specific Heat and Humidity
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<b>Details of Observation of Unit Under Calibration</b>	<b>Identification No. :</b> NCQC/T – 156
	<b>Serial No. :</b> 3355
	<b>Name of Instrument :</b> Temperature & Humidity Data Logger

<b>Range</b>	-30 to 60 °C	<b>Accuracy</b>	$\pm 0.5\text{ }^\circ\text{C}$ up to 20 to 40°C & Other $\pm 1\text{ }^\circ\text{C}$
<b>Least Count</b>	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	-25.224	0.176	0.78
-15.0	-15.3	-15.182	0.118	0.78
0.0	-0.1	-0.015	0.085	0.78
10.0	10.3	10.194	0.106	0.78
30.0	30.4	30.192	0.208	0.78
50.0	50.5	50.286	0.214	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.

<b>Traceable To National / International Standards.</b>	
<b>Calibrated By</b>  Vishal Chauhan Calibration Engineer	<b>Reviewed &amp; Approved By</b>  Jigar Panchal Calibration Incharge