



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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CC-2128

**TRUE COPY**

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

<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	<b>Certificate No.</b> NCQC-T/170223/001
	<b>Date of Issue</b> 18/02/2023
	<b>Date of Calibration</b> 17/02/2023
	<b>Suggested Due Date</b> 16/02/2024
<b>Date of Receipt / Ref.No.:</b> 16/02/2023	

<b>ULR No. :</b> CC212823000000710F	<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 – 162
	<b>Serial No. :</b> EF7186H00537
	<b>Name of Instrument :</b> Temperature & Humidity Data Logger

<b>Range</b> 0 to 99 % Rh	<b>Visual Inspection Accuracy</b> OK $\pm 5\%$ Rh
<b>Resolution</b> 0.1 % Rh	
<b>Make / Model</b> Elitech/RC-4HC	
<b>Location</b> Laboratory	

<b>Loc. of Calibration</b> At Laboratory	<b>Std. Ref. Used</b> Cali.Method No.
<b>Environment Cond.</b> 25 $\pm$ 4 °C, 30 to 75 % Rh	
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) $\pm$
20.0	20.4	20.06	0.34	3.20
40.0	40.8	40.20	0.60	3.20
50.0	51.1	50.28	0.82	3.20
70.0	71.6	70.42	1.18	3.20
95.0	96.9	95.61	1.29	3.20

Traceable To National / International Standards.

<b>Calibrated By</b>  Vishal Chauhan Calibration Engineer	<b>Reviewed &amp; Approved By</b>  Jigar Panchal Calibration Incharge
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NCQC System Certificate No. 337

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

<b>Name of Customer</b> 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 Date of Receipt / Ref.No.:	NCQC-T/170223/001 18/02/2023 17/02/2023 16/02/2024 16/02/2023
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ULR No. : CC212823000000710F	Discipline : Thermal Calibration Specific Heat and Humidity
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T – 162
	Serial No. : EF7186H00537
	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	0.025	0.025	0.78
10.0	10.2	10.077	0.123	0.78
30.0	30.3	30.165	0.135	0.78
50.0	50.4	50.208	0.192	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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