



Since 1998

# NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon - Ambli Road, Ambli, Ahmedabad-380 058  
Ph. +91-79-29795322, 29795323 • Fax : +91-79-29795323, Cell No. +91-9927017517, +91-9328616370  
E-mail : [ncqc@calibrationlaboratory.in](mailto:ncqc@calibrationlaboratory.in), [calibrationlab.ncqc@gmail.com](mailto:calibrationlab.ncqc@gmail.com)

Visit our Web Site : [www.calibrationlaboratory.in](http://www.calibrationlaboratory.in)



CC-2128

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	<b>Certificate No.</b> NCQC-T/170223/003	<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>Date of Issue</b> 18/02/2023	
	<b>Date of Calibration</b> 17/02/2023	
	<b>Suggested Due Date</b> 16/02/2024	

<b>ULR No. : CC212823000000716F</b>	<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 - 165 <b>Serial No. :</b> EF7186H00540 <b>Name of Instrument :</b> Temperature & Humidity Data Logger
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<b>Range</b> 0 to 99 % Rh <b>Resolution</b> 0.1 % Rh <b>Make / Model</b> Elitech/RC-4HC <b>Location</b> Laboratory	<b>Visual Inspection Accuracy</b> OK $\pm 5\% \text{ Rh}$
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<b>Loc. of Calibration</b> At Laboratory <b>Environment Cond.</b> $25 \pm 4\text{ }^\circ\text{C}$ , 30 to 75 % Rh	<b>Std. Ref. Used</b> 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 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 - Tempsens / TPRT-100, Indicator - Tempsens / 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	20.7	20.11	0.59	3.20
40.0	40.9	40.22	0.68	3.20
50.0	51.3	50.32	0.98	3.20
70.0	71.5	70.42	1.08	3.20
95.0	93.7	95.46	1.76	3.20

NCQC  
 Valid up to 16-02-2024  
 Reviewed: *[Signature]*

<b>Calibrated By</b> <i>[Signature]</i> Vishal Chauhan Calibration-Engineer	<b>Traceable To National / International Standards.</b>	<b>Reviewed &amp; Approved By</b> <i>[Signature]</i> Jigar Panchal Calibration Incharge
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	<b>Serial No. :</b> EF7186H00540
	<b>Name of Instrument :</b> Temperature & Humidity Data Logger

<b>Range</b>	-30 to 60 °C	<b>Accuracy</b>	± 0.5 °C up to - 20 to 40°C & Other ±1°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	-25.3	-25.148	0.152	0.78
-15.0	-15.2	-15.076	0.124	0.78
0.0	0.0	0.022	0.022	0.78
10.0	10.2	10.039	0.161	0.78
30.0	30.3	30.155	0.145	0.78
50.0	50.3	50.120	0.180	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.

<b>Calibrated By</b> Vishal Chauhan Calibration Engineer	<b>Reviewed &amp; Approved By</b> Jigar Panchal Calibration Incharge
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