

CALIBRATION CERTIFICATE

SUBJECT: CALIBRATION OF THERMO HYGROMETER	CERTIFICATE NO.: ML/THE/1381/02/2023-24	
	Certificate Issue Date 23/09/2023	Page 1 of 2



1. **Scope**
- 1.1 Service Request Details
 1.1.1 Service Request No. Calibration
 1.1.2 Service Request Finalized On ML/1381/23-24
 1.1.3 Unique Lab Report Number (ULR No.) 18/09/2023
 1.1.4 Discipline / Group CC266423000027463F
 1.1.5 Name & Address of Organization Thermal / Specific Heat & Humidity
 NOBEL MICROPATH LABORATORY
 G3, Ground floor, Infinity Tower, near Railway Station, Surat, Gujarat,
 India, 395003.

1.2 **Item Details**

1.2.1 Condition of the Item Working

1.2.2

Nomenclature	Thermo Hygrometer	Model No.	HTC-1
Manufacturer	HTC	Sr.No.	---
ID No.	THM-01	Type	Digital
Range	-10 to 50 °C / 10 to 99%RH	Accuracy	---
Least Count	0.1°C/ 1 % RH	Location	---
Department	---		

Dt. 20/09/2023

1.3 **Item Received On**

1.4 **Details of Test Equipments Used**

Instrument Name	UID No.	Certificate No.	Make	Due Date
Temperature & Humidity Sensor with Indicator	ML/MTHI/003	30069101	Miigo	01/06/2024

Source In Use: ML/MTHCC/001

1.4.1 **Operating Procedures Used:**

- 1.5 Date of Calibration: ML/SOP/THE/008
21-September-2023
- 1.6 Recommended Due Date of Calibration: 20-September-2024
- 1.7 **OBSERVATIONS:**
- 1.7.1 Laboratory Ambient: Temperature: 25.2 °C (25±4) Humidity: 51.5 %RH (50±20)
- 1.7.2 Parameter: Temperature / Humidity

1.7.3

CALIBRATION RESULTS					
Range	Calibration Point	Measured Value on Master (A)	Measured Value on IUC (B)	Error (B - A)	(±) Expanded Uncertainty
Parameter: Temperature (°C) @50%RH					
-10 to 50 °C	15.0	15.08	14.9	-0.18	0.66 °C
	25.0	25.16	24.9	-0.26	0.66 °C
	45.0	45.25	44.8	-0.45	0.66 °C
Parameter: Humidity (%RH) @25°C					
10 to 99 %RH	35.0	35.17	35	-0.17	1.68 %RH
	50.0	50.33	50	-0.33	1.68 %RH
	85.0	85.48	85	-0.48	1.68 %RH

Note: The value mentioned above is the mean of 5 readings.

Calibrated By: Dhruvi Patel, Calibration Engineer

AUTHORISED SIGNATORY

Ranjit Rohit / Ansh Patel
Technical Director



210 2nd Floor, "B" Wing, M Cube, The Business Hub, Opp. Taluka Seva Sadan, Balitha

Vapi-396 195 Gujarat (India) Cell:098253 17475, Off. 097238020980 Form-21, Amend. 05 Dt. 01-01-2022

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CERTIFICATE

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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Certificate Issue Date 23/09/2023</td> <td style="width: 50%; text-align: center;">Page 2 of 2</td> </tr> </table>	Certificate Issue Date 23/09/2023	Page 2 of 2
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1.8 **General Remarks:**

- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95.45% for a normal distribution.
- Uncertainty to be calculated at Max Error / Full Range of IUC
- Any anomalies/Discrepancies in the certificate should be brought to our notice within 30 days from the date of issue Certificate.
- IUC* (Instrument Under Calibration)
- The Measurements are metrologically traceable to applicable national /International Standards.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The results related to the Item calibrated.

Calibrated By: Dhruvi Patel, Calibration Engineer

AUTHORISED SIGNATORY

Ranjit Rohit / Joshi
Technical Director / Quality Manager

B-209 & B-210 2nd Floor, "B" Wing, E-Cell of Certified Business Hub, Opp. Taluka Seva Sadan, Balitha.

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