



MEASURE TECHNO LAB

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CALIBRATION CERTIFICATE OF DIGITAL THERMO HYGROMETER

CC - 2545

CALIBRATION CERTIFICATE NO.: MTL / HE / R02 / 09 - 24

ULR - CC254524000045110F

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1.0 Service Request No.: MTL / 13A / 09 / 24 - 25

1.1 Issued to: M/s. Halder Enterprise,
458 / 1A, Motilal Colony,
P.O. - Rajbari, P.S. - Airport, Pin - 700081.

1.2 Description & Identification of Item to be Calibrated:	a) Name:	Digital Thermo Hygrometer	b) Code No.:	HE / DTH - 01
	c) Sl. No.:	N.S.	d) Make:	Aptechdeals
	e) Model / Type:	HTC - 1	f) Range:	(-) 50 °C to 70 °C & 10 % RH to 99 % RH
	g) Sensor:	N.A.	h) Resolution:	0.1 °C & 1 % RH
	i) End User:	Laboratory	j) Accuracy:	N.S.
	k) Calibration done at:	On Site / √ In House		

1.3 Date of receipt of item :	13-09-24	1.4 Physical Condition of DUC :	OK
1.5 Date of calibration :	14-09-24	1.6 Recommended date of next calibration :	14-09-25
1.7 Date of Issue :	16-09-24		

1.8 Environmental Conditions During Calibration: Temperature: 25 °C ± 4 °C
Humidity: 30 % RH to 75 % RH

1.9 Method of Calibration: SOP / TH / HU - 01

2.0 Traceability :

a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.

b) The following standards / Equipment have been used.

i) Temperature & Humidity Meter Cal. Certificate No. RPL-CF-2024-THER-CSRF-0674-C-1192 (JRPM, Chennai) (Cal. Date: 15/07/24, Due Date: 14/07/25)

2.1 Result :

Thermal Calibration : (Specific Heat & Humidity.)

Sl. No.	Parameter/ Range	Measured Value on DUC °C	Corrected Std. Value °C	Error °C	Measurement Expanded Uncertainty ± °C & % RH
At 50 % RH					
1.	Temperature (-) 50 °C to 70 °C	10.2	10.59	-0.39	0.89
2.		29.7	30.17	-0.47	
3.		39.7	40.14	-0.44	
4.		48.6	49.13	-0.53	
At 25 °C					
	Humidity 10 % RH to 99 % RH	% RH	% RH	% RH	1.81
1.		24	25.05	-1.05	
2.		49	50.53	-1.53	
3.		79	80.98	-1.98	
4.		88	90.51	-2.51	

Remarks: i) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.

ii) The calibration certificate issued for this Instrument is to be used for scientific or industrial purposes only.

iii) Error = DUC Reading - Standard Reading.

iv) Calibrations are carried out without any adjustment or repair.

DUC - Device Under Calibration N.S. - Not Specified N.A. - Not Applicable Std. - Standard

Opinions and Interpretations

Calibrated	√	Accepted / Valid for use
Limited Use		Rejected / Out of use

Calibration Engineer
Measure Techno Lab
Kolkata
J. Dey
Calibration Engineer

Checked & Approved by:
KOLKATA
Quality / Technical Manager
S. Pandey