



MEASURE TECHNO LAB

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CC - 2545

CALIBRATION CERTIFICATE OF DIGITAL THERMO HYGROMETER

LIBRATION CERTIFICATE NO.: MTL / NRS MCH - ICTC (M) / R02 / 01 - 24

ULR - CC254524000004981F

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1.0 Service Request No.: MTL / 22 / 01 / 23 - 24

1.1 Issued to: M/s. NRS MCH - ICTC,
Department of Microbiology,
Kolkata -14.

1.2 Description & Identification of item to be Calibrated:	a) Name: Digital Thermo Hygrometer	b) Code No.: NRS - ICTC - M - DTH - 01
	c) Sl. No.: N.S.	d) Make: Aceteq
	e) Model / Type: DC - 3	f) Range: As Per Report
	g) Sensor: N.A.	h) Resolution: 0.1 °C & 1 % RH
	i) End User: Microbiology (ICTC)	j) Accuracy: N.S.
	k) Calibration done at: On Site / <input checked="" type="checkbox"/> In House	

1.3 Date of receipt of item : 22-01-24

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 24-01-24

1.6 Recommended date of next calibration : 24-01-25

1.7 Date of Issue : 24-01-24

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. JRPM-CF-2023-THER-CSRF-880-C-1488 (JRPM, Chennai) (Cal. Date: 17/07/23, Due Date: 16/07/24)

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	10.4	10.76	-0.36	0.89
2.		29.1	29.68	-0.58	0.89
3.		39.0	39.69	-0.69	0.89
4.		48.4	49.19	-0.79	0.89
At 25 °C					
	Humidity	% RH	% RH	% RH	
1.		24	24.96	-0.96	1.81
2.		49	50.82	-1.82	1.81
3.		68	70.91	-2.91	1.81
4.		87	90.41	-3.41	1.81

- 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
Calibration Engineer

Checked / Approved by

Quality / Technical Manager
S. Pandey

Form No. - MTL/22/2006

Issue No. : 2 Issue Date : 10.11.06

Rev. No. : 04 Rev. Date : 01.04.22