



TMSCC

TESTING MACHINE SERVICE AND CALIBRATION CENTRE
Precision is Our Destination.....

An ISO 9001 : 2015 Certified company
Calibration of Various Instruments & Testing Machines...



CC - 3125

Form No.: TMSCC/R/23

CALIBRATION CERTIFICATE

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CALIBRATION CERTIFICATE NO.: 2024/07/731
ISSUE DATE : 17-Jul-2024
ULR No. : CC312524000013630P

1.0 ISSUED TO : M/s.: Vinayaka Clinic
9A, B.M Mandal Road, Santoshpur, Kolkata - 700075
1.1 Service Request Form No.: SRF/2024/07/01/05
1.2 Service Request Date : 01-07-2024
1.3 Location : At Lab



1.4 Description identification of item to be calibrated :
i Name : Digital Thermo Hygrometer ii Make : Aptechdeals
iii Model / Type No.: HTC-1 iv S/L No.: --
v I.D.No.: VC/DTHM/01 vi Job Code No.: 2024/07/731
vii Range : [-10 to 50] °C & (5 to 99)% RH viii Resolution : 0.1°C & 1% RH
ix Accuracy : As Per DKD R5 - 1 & DKD-R5-7 x End User : --

1.5 Full / Partial Calibration : Partial Calibration

1.6 Applicable specification of item to be calibrated: Accuracy / permissible limit : Not Specified.

1.7 Date of receipt of item : 1-Jul-2024 1.8 Date of calibration : 1-Jul-2024

1.9 Calibration due on : 30-Jun-2025 2.0 Frequency of calibration once in : 12 Months

2.1 Environmental condition during calibration : Temperature : 25.2°C
Humidity : 52 % RH

2.2 Basis of calibration : SOP/10/02, SOP/10/04

2.3 Traceability : Standards used for calibration are traceable to National Standards through NABL accredited Laboratory.

Name of Instrument	Sl. No. / Id no.	Certificate No.	Lab Certificate No.	Calibrated on	Due on
Temp. & Humidity Probe with Indicator	(Sl. No.: No.- 2022C01005/ 20571921)	TSC/23-24/20427-3	CC - 2231	14-03-2024	13-03-2025
Digital Temperature Indicator with Sensor(RTD)	Indicator Sl. No.- 18K588073 (Sensor ID No.- TMSCC/RTD/01)	TSC/23-24/13010-4	CC - 2231	09-11-2023	08-11-2024

CALIBRATION RESULTS

Sl. No.	Ref. Bath set in °C	Observed Reading at DUC in °C (Avg. of five readings)	Observed Reading at Ref. Std. in °C (Avg. of five readings)	Error in °C	Uncertainty in ± °C	Acceptance Criteria
1	-10.0	-10.0	-9.971	0.029	0.18	Pass
2	20.0	20.0	19.943	-0.057	0.18	Pass
3	25.0	25.0	24.929	-0.071	0.18	Pass
4	50.0	50.0	49.857	-0.143	0.29	Pass

Maximum Permissible Error : ± 0.3% of rdg

Sl. No.	Ref. Source set in %	Observed Reading at DUC in % (Avg. of five readings)	Observed Reading at Ref. Std. in % (Avg. of five readings)	Error in %	Measurement Uncertainty in ± %	Acceptance Criteria
1	25	25	25.5	0.5	1.3	Pass
2	50	50	51.0	1.0	1.3	Pass
3	90	90	91.7	1.7	1.3	Pass

Maximum Permissible Error : ± 3% of rdg

Measurement Uncertainty at 95% Confidence Level where Coverage Factor k = 2

REMARKS : The DUC has been calibrated over its range. The readings observed are tabulated above. The reference standard is traceable to National standard.

DUC: Device Under Calibration.

Physical Status of the DUC : OK

Calibrated By :

Ghosh
(Calibration Engineer)

Checked By :

C. Ghosh
(Technical Manager)



Approved By :

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE