



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

CALIBRATION CERTIFICATE NO.: 2024/06/892		Page 1 of 1				
ISSUE DATE: 18-Jun-2024						
ULR No.: CC312524000012398P						
1.0 ISSUED TO:	M/s. Doctor Ghosh Super Speciality Clinic And Diagnostic Centre 1st Floor, 2/5/16, Arambinda Arena, Block B, Khardaha, Kolkata - 700118.					
1.1 Service Request Form No.:	SRF/2024/06/17/02					
1.2 Service Request Date:	17-06-2024					
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-2	iv S/L No.:	--	
v ID No.:			DGLAB/DTHM/02	vi Job Code No.:	2024/06/892	
vii Range:			[(-30 to 70) °C & (10 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:	17-Jun-2024	1.8 Date of calibration:	17-Jun-2024			
1.9 Calibration due on:	16-Jun-2025	2.0 Frequency of calibration once in:	12 Months			
2.1 Environmental condition during calibration:	Temperature: 25 °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	-35.0	-35.0	-35.073	-0.073	0.18	Pass
2	-5.0	-5.0	-5.010	-0.010	0.18	Pass
3	10.0	10.0	10.021	0.021	0.18	Pass
4	25.0	25.0	25.052	0.052	0.29	Pass
5	50.0	50.0	50.104	0.104	0.29	Pass
6	70.0	70.0	70.145	0.145	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	25.2	0.2	1.2	Pass
2	55	55	55.4	0.4	1.2	Pass
3	90	90	90.7	0.7	1.2	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:

J. Bhattacharjee
(Sr. Calibration Engineer)

Checked By:

C. Ghosh
(Technical Manager)



Approved By:

P. K. Modak
(Sr. Calibration Engineer)

END OF CERTIFICATE