



# 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.:		2024/07/1727		Page 1 of 1		
ISSUE DATE :		24-Jul-2024				
ULR No. :		CC31252400014759P				
1.0	ISSUED TO :	M/s.: Mediscience Diagnostic Centre 11/S/A, Bidhan Park, Kolkata- 700124.				
1.1	Service Request Form No.:	SRF/2024/07/22/01				
1.2	Service Request Date :	22-07-2024				
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.:	MDC/DTHM/01	vi	Job Code No.:	2024/07/1727	
vii	Range :	[-50 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 :	22-Jul-2024	1.8	Date of calibration :	22-Jul-2024	
1.9	Calibration due on :	21-Jul-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
<b>CALIBRATION RESULTS</b>						
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	-34.924	0.076	0.18	Pass
2	20.0	20.0	19.957	-0.043	0.18	Pass
3	30.0	30.0	29.935	-0.065	0.18	Pass
4	50.0	50.0	49.892	-0.108	0.29	Pass
5	70.0	70.0	69.849	-0.151	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	1.3	Pass
2	50	50	50.5	0.5	1.3	Pass
3	90	90	90.8	0.8	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 :  
  
C. Ghosh  
(Calibration Engineer)

Checked By :  
  
C. Ghosh  
(Technical Manager)



Approved By :  
  
P. K. Modak  
(Calibration Engineer)

END OF CERTIFICATE