



CC - 2147



ELECTRO METER CORPORATION
P- 5, C.I.T ROAD,
KOLKATA - 700014

Form No.: FM/22
 Issue No: 10 and Issue Date: 31.12.2022

CALIBRATION CERTIFICATE OF:

DIGITAL HYGROMETER

CALIBRATION CERTIFICATE NO :		EMC2024-KOL-00036420		ULR NO :		CC214724000030956F		Page: 1/2	
1.0	ISSUED TO:	MKAS HEALTH CARE PVT. LTD. SANJAY HEIGHTS (2ND FLOOR) GADGADIA SQ. NEAR EM. COLLEGE PIN - 756003 ODISHA, INDIA							
1.1	Service Request No./Order No:	45512-L-8							
1.2	Description identification of item to be calibrated:								
	i Name:	DIGITAL HYGROMETER		ii Code No.:	MKAS/DHTM/01				
	iii Sl. No.:	--		iv Make:	--				
	v Model / Type No.:	HTC-1		vi Range:	Cal from 10°C to 50°C (For Temperature) & Cal from 20% to 90% RH (For Relative Humidity)				
	vii Sensor:	-		viii Resolution:	0.1°C (For Temperature) & 1% RH (For Relative Humidity)				
	ix Location:	Lab		x Cal. Performed :	Lab				
1.3	Applicable specification of item to be calibrated: Accuracy / permissible limit:			Not Specified					
1.4	Date of receipt of item:	7-Aug-2024		1.5	Date of calibration:	7-Aug-2024			
1.6	Recommended date for next calibration	7-Aug-2025		1.7	Report issue date:	09-Aug-2024			
1.8 (a)	Environmental condition during calibration		Temperature:	22.5°C					
			Humidity:	55.3% RH					
1.8 (b)	Recommended Environmental condition		Temperature:	25 ± 4 °C					
			Humidity:	50 ± 20 %RH					
1.9	Basis of calibration:		S.O.P Number	SOP/THER/05					
2.0	Standard Equipment Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025:2017 Accredited Laboratory.								
Sl. No.	Name of the standard instrument used (Sl. No./Code Nos.)	Range	Resolution	Recommended date for next calibration	Certificate Nos.				
1	Data Acquisition Switch, Make: Agilent, Model No: 34970A, Sl. No.: MY44022114, Code No: EMC/DAS/291	As Per Calibration Result	As Per Calibration Result	11-08-2024	EMC2023-KOL-00005534				
2	Semi Standard Platinum Resistance Thermometer, Make: Isotech, Model: 935-14-95H, Sl. No: 39649/1, Code No: EMC/SSPRT/871	(-)80°C to 660°C	-	20-03-2025	TL/024/319.1.1				
3	Temperature & Humidity Indicator, Make: Metravi, Sl No. 10090300, Model: HT-3006, Code No. EMC/THM/626	0% RH to 100% RH / (-)30°C to 100°C	0.01% RH / 0.01°C	15-05-2026	30081495				



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Disciplines: Thermal

Group: Specific Heat & Humidity

CALIBRATION RESULT

Parameter / Range	Nominal Value on DUC	Corrected Value	Error	Expanded Uncertainty (±)	k factor
Temperature (°C)	(°C)	(°C)	(°C)	(°C)	
10	10.4	10.483	-0.083	0.59	2.00
20	20.5	20.531	-0.031	0.59	2.00
30	30.6	30.663	-0.063	0.71	2.00
40	40.2	40.677	-0.477	0.71	2.00
50	50.4	50.382	0.018	0.71	2.00
Relative Humidity (% RH)	(% RH)	(% RH)	(% RH)	(% RH)	
20	20	20.47	-0.47	1.85	2.00
30	30	30.58	-0.58	1.85	2.00
40	40	40.63	-0.63	1.85	2.00
60	60	60.75	-0.75	1.85	2.00
90	90	90.83	-0.83	1.85	2.00

Note: i) Corrected Value = Std Value + Correction,

ii) The calibration certificate issued by Electro Meter Corporation refers only for the particular item submitted to calibrate.

iii) Entire certificate should be produced for all purposes. Partial production of an extract of the certificate needs approval from the technical or the quality manager of the lab.

iv) The results in the calibration certificate are valid at the time and the stated conditions of measurement.

v) The calibration result is only to be used for scientific & industrial purpose and not for commercial purpose.

Measurement uncertainty at approx 95% of confidence level & at coverage factor : As per calibration result.

Remarks: NA

DUC: Device Under Calibration	F.S.: Full Scale	Physical status of the DUC: OK
Calibrated by:		Approved by:
Soumyo Kanti Kundu Calibration Engineer		Saptarshi Das Technical Manager

END OF CERTIFICATE