		<b>ELECTRO METER CORPORATION</b> P- 5, C.I.T ROAD, KOLKATA - 700014		Form No.: FM/22  <b>CALIBRATION CERTIFICATE OF:</b> <b>DIGITAL THERMOHYGROMETER</b>	
CALIBRATION CERTIFICATE NO : EMC2022-KOL-00011154		ULR NO : CC214722000007084F		Page: 1/2			
1 ISSUED TO:		CPL Diagnostics Pvt, Ltd. CZ-8, Metropolitan CHS Ltd, Canal South Road, Kolkata-700 105					
1.1 Service Request / Order No.:		532-E04-02-22					
Description identification of item to be calibrated:							
1.2 i Name:		DIGITAL THERMOHYGROMETER		ii Code No.:		CPLDPL/DHT/03	
iii Sl. No.:		--		iv Make:		APTECH DEALS	
v Model / Type No.:		HTC-1		vi Range:		As per calibration result	
vi Sensor:		--		viii Resolution:		0.1°C (For Temperature) & 1% RH (For Relative Humidity)	
ix Location:		--		Not Specified			
1.3 Applicable specification of item to be calibrated: Accuracy / permissible limit:		Not Specified					
1.4 Date of receipt of item:		11-Feb-2022		1.5 Date of calibration:		22-Feb-2022	
1.6 Recommended date for next calibration		22-Feb-2023		1.7 Frequency of calibration:		12 months	
1.8a) Environmental condition during calibration		Temperature:		22.5°C			
		Humidity:		55.7% RH			
1.8b) Recommended Environmental condition		Temperature:		25°C ± 4°C			
		Humidity:		50% RH ± 20% RH			
1.9 Basis of calibration:		S.O.P Number		SOP/Thermal/05 & 10			
		Standard Followed		i)NABL NEWS (ISSUE NO: 41, JAN - 2006) ii)IS 6274 -1971,IS 2480 (PART I) - 1983, IS 2480 (PART II) - 1982 & OIML R 133: 2002			
		Description of Method		i)Using RH Generator system and Humidity Indicator by comparison method. ii)Using Alcohol / Water / Oil / Dry Block Bath And SPRT / SSPRT / RTD / K type / R type / R type with cold junction / B type, DAS by comparison method.			
2 Traceability : Standards Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025 Accredited Laboratory.							
Sl. No.	Name of the standard instrument used (Sl. No./Code Nos.)	Range	Resolution	Recommended date for next calibration	Traceable to / Certificate Nos.		
1	Data Acquisition Switch Unit, Make: Keysight, Model: 34970A, Sl. No.: MY41029352, Code No. EMC/DASU/479	As Per Calibration Result	As Per Calibration Result	31-08-2022	EMC (Kolkata) / EMC2021-KOL-00036399		
2	Semi Standard Platinum Resistance Thermometer, Make: Isotech, Model: 935-14-95H, Sl. No: 39649/1, Code No: EMC/SSPRT/871	(-)80°C to 650°C	--	30-12-2022	Tempsens / TL/020/1138.1.1		
3	Digital Temperature & Humidity Meter with Sensor, Make: Rex, Sl. No. 00001, Model: RH-MK-3.2, Code No. EMC/DTHM/770	5% RH to 100% RH @ 25°C	0.001% RH	09-04-2023	Perfect Calibration / PC-04-21/ATL/0904-01		



ISSUED BY ELECTRO METER CORPORATION



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

Form No: FM/22

**CALIBRATION CERTIFICATE OF:**  
**DIGITAL THERMOHYGROMETER**

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**CALIBRATION RESULT**

Parameter / Range	Nominal Value on DUC (°C)	Corrected Value (°C)	Error (°C)	Expanded Uncertainty (±) (°C)	k factor
Temperature Cal from 10°C to 50°C	10.3	10.191	0.109	0.18	2.00
	20.5	20.109	0.391	0.18	2.00
	30.3	29.341	0.959	0.18	2.00
	40.2	39.523	0.677	0.18	2.00
	49.7	49.579	0.121	0.18	2.00
Relative Humidity Cal from 15% RH to 95% RH At 25°C	(% RH)	(% RH)	(% RH)	(% RH)	
	12	15.976	-3.976	1.78	2.00
	26	30.090	-4.090	1.78	2.00
	44	50.135	-6.135	1.78	2.00
	63	70.230	-7.230	1.78	2.00
	86	93.533	-7.533	1.78	2.00

- Note: i) Corrected Value = Std Value + Correction.  
 ii) Average of 5 readings had been taken in DUC/Corrected Value  
 iii) The calibration certificate is issued by Electro Meter Corporation. This certificate refers only for the particular item submitted to calibrate.  
 iv) The Certificate if produced for any purpose commercial or otherwise, should be reproduced in full. Partial production of the certificate or an abstract thereof has to be got specifically approved from the technical and the quality manager of this lab.  
 v) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement.  
 vi) The calibration result is only to be used for scientific & industrial purpose. This result can not be used for commercial purpose.

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

Remarks: Statement of conformity not mentioned.

DUC: Device Under Calibration	F.S.: Full Scale	Physical status of the DUC: OK
<b>Calibrated by: Akash Singh</b> Date: 22-Feb-2022 Report Issue Date: 2-Mar-2022  <b>Test Engineer</b> Electro Meter Corporation	<b>Checked &amp; Approved by: Saptarshi Das</b> Date: 2-Mar-2022  <b>S. Das</b> <b>Technical Manager</b> Electro Meter Corporation	

END OF CERTIFICATE