



Certificate No.:  
CC - 2147



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

Form No.: FM/22  
CALIBRATION CERTIFICATE OF:  
REFRIGERATOR

CALIBRATION CERTIFICATE NO.: EMC2021-KOL-00033356

ULR NO.: CC214721000026535F

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1.0 ISSUED TO:

**BIOCHEMISTRY DIAGNOSTIC LABORATORY**  
GOVT. MEDICAL COLLEGE  
SRINAGAR AND ASSOCIATED SMHS HOSPITAL,  
(F- BLOCK) KARAN NAGAR,  
SRINAGAR, J&K- 190010

1.1 Service Request / Order No.:

-

1.2 Description identification of item to be calibrated:

i	Name:	REFRIGERATOR	ii	Code No.:	--
iii	Sl. No.:	0912091	iv	Make:	TERUMO PENPOL
v	Model / Type No.:	BBR600G	vi	Range:	As Per Calibration Result
vii	Sensor:	-	viii	Resolution:	0.1°C
ix	Location:	GMC BIOCHEMISTRY			

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

1.4 Date of receipt of item:

20-Aug-2021

1.5

Date of calibration:

20-Aug-2021

1.6 Recommended date for next calibration

20-Aug-2022

1.7

Frequency of calibration:

12 months

1.8 Environmental condition during calibration

Temperature: 25°C ± 10°C

Humidity: 50% RH ± 20% RH

1.9 Basis of calibration:

S.O.P Number S.O.P/Thermal/07

Standard Followed DKD R-5-7: 2018

Description of Method Using Multi Point Measurement (9 channels). Using RTD, DAS by comparison method.

2.0 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, Make: Keysight, Model No. 34970A, Sl. No.: MY44016767, Code No. EMC/DASU/478	As Per Calibration Result	As Per Calibration Result	08-12-2021	EMC (Kolkata) / EMC2020-KOL-00041095
2	PT-100 Sensor, Code: EMC/PT-100/916	(-)80°C to 250°C	-	19-01-2022	EMC (Kolkata) / EMC2021-KOL-00000775
3	PT-100 Sensor, Code: EMC/PT-100/917	(-)80°C to 250°C	-	19-01-2022	EMC (Kolkata) / EMC2021-KOL-00000783
4	PT-100 Sensor, Code: EMC/PT-100/918	(-)80°C to 250°C	-	19-01-2022	EMC (Kolkata) / EMC2021-KOL-00000776
5	PT-100 Sensor, Code: EMC/PT-100/919	(-)80°C to 250°C	-	19-01-2022	EMC (Kolkata) / EMC2021-KOL-00000780
6	PT-100 Sensor, Code: EMC/PT-100/920	(-)80°C to 250°C	-	19-01-2022	EMC (Kolkata) / EMC2021-KOL-00000781
7	PT-100 Sensor, Code: EMC/PT-100/921	(-)80°C to 250°C	-	19-01-2022	EMC (Kolkata) / EMC2021-KOL-00000774
8	PT-100 Sensor, Code: EMC/PT-100/922	(-)80°C to 250°C	-	19-01-2022	EMC (Kolkata) / EMC2021-KOL-00000773
9	PT-100 Sensor, Code: EMC/PT-100/923	(-)80°C to 250°C	-	19-01-2022	EMC (Kolkata) / EMC2021-KOL-00000772
10	PT-100 Sensor, Code: EMC/PT-100/924	(-)80°C to 250°C	-	19-01-2022	EMC (Kolkata) / EMC2021-KOL-00000771



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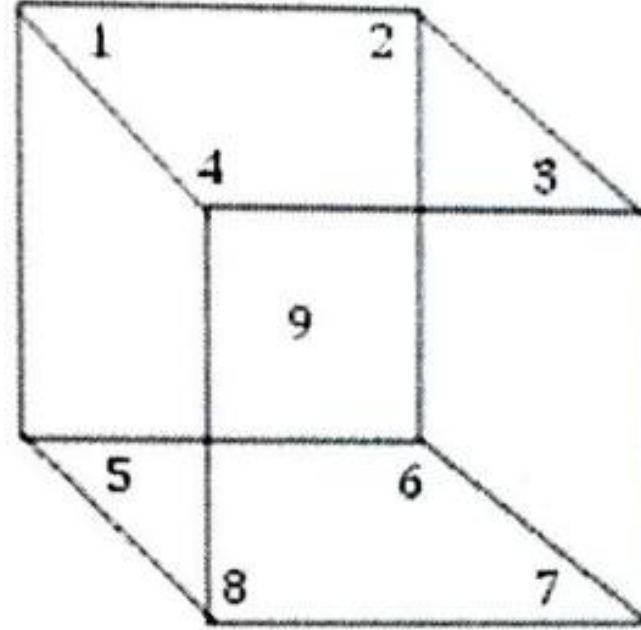
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**Position of Sensor**

**CALIBRATION RESULT**

Temp. Set at	Nominal Value on DUC			Corrected Value			Error (°C)	Zone	Expanded Uncertainty (±) (°C)	k factor
	Max (°C)	Min (°C)	Avg (°C)	Max (°C)	Min (°C)	Avg (°C)				
5.5°C	5.5	5.5	5.50	5.11	4.34	4.852	0.648	1	0.62	2.00
				5.31	4.51	4.912	0.588	2		
				5.08	4.33	4.714	0.786	3		
				5.30	4.30	4.884	0.616	4		
				5.11	4.49	4.814	0.686	5		
				5.12	4.39	4.698	0.802	6		
				5.30	4.56	4.952	0.548	7		
				5.29	4.42	4.932	0.568	8		
				5.11	4.52	4.712	0.788	9		

Note: i) Corrected Value = Std Value + Correction, ii) Error = Avg DUC Reading - Avg Corrected Reading.

iii) Average reading obtained from scan time of 5 min, iv) Average of 5 readings had been taken in DUC/Corrected Value.

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

vi) 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.

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

viii) The calibration result is only to be used for scientific & industrial purpose. This result can not be used for commercial purpose.

Stability : 1.00°C & Non Uniformity : 0.254°C

**Measurement uncertainty at approx 95 % of confidence level & at a coverage factor : As Per Calibration Result**

Remarks: Statement of conformity not mentioned.

F.S.-Full Scale

Physical status of the DUC: OK

Calibrated by: **Kuwar Aman Singh**  
Date : 20-08-2021  
Report Issue Date : 25-08-2021

Technical Assistant  
Electro Meter Corporation

Checked & Approved by: **Saptarshi Das**  
Date : 25-08-2021

**S. Das**  
Technical Manager  
  
Electro Meter Corporation

**END OF CERTIFICATE**

ISSUED BY ELECTRO METER CORPORATION