
	PRECEDENCE CALIBRATION LABORATORY PLOT/R.S DAG NO. - 231 , MOHISGOTE, KRISHNAPUR MAIN ROAD , P. O. - KRISHNAPUR, KOLKATA - 700102 .	 CC -3325
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Form No. PCL/FORM/09/01-21
ULR- CC332523000000345F

CALIBRATION CERTIFICATE

Certificate No: PCL/C05/060/02-23/NABL

Date: 20-02-2023

Issued To M/s Central Pollution Control Board Regional Directorate: 502, Southend Conclave, 1582, Rajdanga Main Road, Kolkata-700107 Customer Reference No. (S.R. No.): SRF/C05/007/02-23 dated 14-02-2023	Receive Date: 17-02-2023 Date of Calibration: 20-02-2023 Recommended due date: 20-02-2024 Calibration Sticker No: P-1263
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Description and Identification of instrument	Location where calibration performed: In-House.
Name: Temperature Controller with Sensor of Double Door Refrigerator Model: Eon Resolution: 0.1 °C	Make: Godrej Accuracy: Not Specified Cal Range: Freezer 0 to -18 °C, Cooling 2 to 5 °C
Id No: CPCB(RDK)/FR-09/14	

Physical Status of item: Good condition.
Environmental Condition: Temperature: 25.0 °C +/- 3 °C, Humidity: 45% to 70 % R.H.
Calibration Method: Laboratory Method for Calibration of Temperature controller with or without sensor (PCL/SOP/03/2021).

Standards used:

- **ULTRA CRYOGENIC BATH** (Make: Nagman., Model: NAG CS 01, Id No: PCL/C-B/064), Cal Certificate No: PCL/INT/C-B/064/02-23, Due Date: 13.02.2024
- **Master RTD A Class with Digital Multimeter** (Make: Siglent., Model: SDM 3065-X-SC, Id No: PCL/TEMP-I/021, PCL/PT-100/024), Cal Certificate No: ERTL(E)/CAL/P359/0014/02-23/NABL, Due Date: 07.02.2024

Traceability: Reference Standards used for calibration are traceable to National Standards.

Calibration Result:

Discipline: THERMAL

Sl. No	Specified	Displayed	Displayed	STD Value in °C (Average of 5 readings)			Expanded Uncertainty at 95% C.L in °C (±), K=2
				Cooling Zone			
	Value in °C	temp in °C	temp in °C	Freezer	Middle	Lower	
		Freezer	Cooler				
1	2-5°C 0 to (-) 18 °C	Max: -17.4 Min: -11.1	Max: 4.5 Min: 2.6	-16.4 -10.5	4.4 2.1	4.9 2.6	(±)1.2

DUC: Device Under Calibration,

Remarks: The above Temperature Controller with Sensor of Double Door Refrigerator has been calibrated and the readings are tabulated above.


Conformity Statement: Not reported as accuracy has not specified by customer.

Calibrated by:


(Signature)

Reviewed & Approved by:




20/02/2023
(J.B. Chattopadhyay)
Authorized Signatory

Certificate Released By: 

Date: 20.02.23

This Calibration Certificate refers only to the item calibrated and shall not be reproduced in part/full without the written approval of Director (Technical), Precedence Calibration Laboratory, Kolkata.