



**MEASURE TECHNO LAB**  
2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE,  
KOLKATA - 700120, W.B.



CC - 2545

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**CALIBRATION CERTIFICATE OF DIGITAL THERMOMETER**

CALIBRATION CERTIFICATE NO.: MTL / MCL / R11 / 12 - 23

ULR - CC254523000042720F

1.0 Service Request No.: MTL / 12B / 12 / 23 - 24

1.1 Issued to: M/s. Mukherjee Clinical Laboratory,  
43/C/5, Jatindra Sarani, Champadali,  
North 24 Parganas, Kolkata - 700124.

1.2 Description & Identification of item to be Calibrated:

a) Name: Digital Thermometer  
b) Code No.: MCL / DT - 03  
c) Sl. No.: N.S.  
d) Make: N.S.  
e) Model / Type: N.S.  
f) Range: (-) 50 °C to 110 °C  
g) Sensor: N.A.  
h) Resolution: 0.1 °C  
i) End User: Lab  
j) Accuracy: N.S.

1.3 Date of receipt of item : 12-12-23

1.5 Date of calibration : 13-12-23

1.7 Date of Issue : 14-12-23

1.8 Environmental Conditions During Calibration:

On Site / √ In House

1.4 Physical Condition of DUC : OK

1.6 Recommended date of next calibration : 13-12-24

Temperature: 25 °C ± 4 °C

Humidity: 30 % RH to 75 % RH

1.9 Method of Calibration: SOP / TH / 04

2.0 Traceability :

a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.  
b) The following standards / Equipment have been used.

- i) Data Acquisition Switch Unit Cal. Certificate No. JRPM-CF-2023-ET-CSRF-1012-C-1626 (JRPM, Chennai) (Cal. Date: 25/08/23, Due Date: 23/08/24)
- ii) 4 Wire RTD Cal. Certificate No. TL / 023 / 568.1.1 (TEMPESENS, Udaipur) (Cal. Date: 13/05/23, Due Date: 12/05/24)

2.1 Result :

Thermal Calibration (Temperature)

Sl. No.	Parameter/ Range	Measured Value on DUC °C	Corrected Std. Value		Error °C	Measurement Expanded Uncertainty ± °C
			Ohms	°C		
1.	Temperature (-) 50 °C to 110 °C	-48.9	80.834	-48.670	-0.230	0.40
2.		24.6	109.717	24.954	-0.354	0.18
3.		49.3	119.286	49.712	-0.412	0.18
4.		75.1	129.243	75.669	-0.569	0.31
5.		108.2	141.880	108.910	-0.710	0.31

- Remarks: i) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.  
ii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.  
iii) Error = DUC Reading - Standard Reading.  
iv) Calibrations are carried out without any adjustment or repair.

DUC - Device Under Calibration

N.S. - Not Specified

N.A. - Not Applicable

Std. - Standard

Opinions and Interpretations

Calibrated	√	Accepted / Valid for use
Limited Use		Rejected / Out of use

Calibration Engineer  
Measure Techno Lab  
Kolkata  
Calibration Engineer

Checked /



Quality / Technical Manager  
S. Pandey

Form No. - MTL/22/2006

Issue No. : 2

Issue Date : 10.11.06

Rev. No. : 04

Rev. Date : 01.04.22