



# MEASURE TECHNO LAB

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



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## CALIBRATION CERTIFICATE OF DIGITAL THERMOMETER

CALIBRATION CERTIFICATE NO.: MTL / MCL / R09 / 12 - 23

ULR - CC254523000042718F

CC - 2545

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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 - 01	
	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.	
	k) Calibration done at:	On Site / √ In House			

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

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 13-12-23

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

1.7 Date of Issue : 14-12-23

1.8 Environmental Conditions During Calibration:

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 (TEMPSENS, 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	-48.8	80.876	-48.564	-0.236	0.40
2.		24.8	109.840	25.272	-0.472	0.18
3.		49.4	119.373	49.937	-0.537	0.18
4.		75.1	129.290	75.793	-0.693	0.31
5.		108.1	141.870	108.884	-0.784	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  
 J.Dey  
 Calibration Engineer

*J. Dey*

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