



MEASURE TECHNO LAB

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CC - 2548

CALIBRATION CERTIFICATE OF DIGITAL THERMOMETER

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Calibration Certificate No.: MTL / D / R04 / 06 - 24

ULR - CC254524000028078F

Service Request No.: MTL / 14G / 06 / 25 - 26

Issued to: M/s. Diagnostics,
190B, Rashbehari Avenue,
Kolkata - 700029.

Description & Identification of item to be Calibrated:	a) Name:	Digital Thermometer	b) Code No.:	DIA / BIO / 29
	c) Sl. No.:	160815640	d) Make:	N.S.
	e) Model / Type:	N.S.	f) Range:	(-) 50 °C to 300 °C
	g) Sensor:	N.A.	h) Resolution:	0.1 °C
	i) End User:	Biochemistry	j) Accuracy:	N.S.
	k) Calibration done at:	√ On Site / In House		

3 Date of receipt of item :	14-06-24	1.4 Physical Condition of DUC :	OK
5 Date of calibration :	14-06-24	1.6 Recommended date of next calibration :	14-06-25

7 Date of Issue :	15-06-24		
8 Environmental Conditions During Calibration:	Temperature:	25 °C ± 2 °C	
	Humidity:	55 % RH ± 10 % RH	

9 Method of Calibration: SOP / TH / 04 (A)

10 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 Unit Cal. Certificate No. C&I/CAL/23-12/080 (G&ICPL, Jaipur) (Cal. Date: 13/12/23, Due Date: 13/12/24)
- ii) RTD (PT - 100) Cal. Certificate No. TL / 023 / 1200.2.1 (TEMPESENS, Udalpur) (Cal. Date: 18/10/23, Due Date: 17/10/24)

11 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.		-28.6	88.874	-28.345	-0.255	0.23
2.		0.3	100.269	0.689	-0.389	0.23
3.	Temperature	50.2	119.675	50.721	-0.521	0.41
4.	(-) 50 °C to 300 °C	148.3	156.927	148.933	-0.633	0.41
5.		297.8	211.549	298.589	-0.789	1.64

- 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

Calibrated by:

S. Pandey
 Calibration Engineer
 Measure Techno Lab,
 Kolkata



Checked & Approved by:
 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