



MEASURE TECHNO LAB

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CALIBRATION CERTIFICATE OF DIGITAL THERMOMETER

CALIBRATION CERTIFICATE NO.: MTL / D / R04 / 06 - 23

ULR - CC254523000016735F

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1.0 Service Request No.: MTL / 14F / 06 / 22 - 23

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

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

1.3 Date of receipt of item :	14-06-23	1.4 Physical Condition of DUC :	OK
1.5 Date of calibration :	14-06-23	1.6 Recommended date of next calibration :	14-06-24

1.7 Date of Issue :	16-06-23
1.8 Environmental Conditions During Calibration:	Temperature: 25.6 °C Humidity: 66.4 % RH

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

1.10 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 Switch Unit Cal. Certificate No. JRPm - CCTR - ET - 2022 - 1498 (JRPm, Chennai) (Cal. Date: 25/08/22, Due Date: 24/08/23)
- ii) RTD (PT - 100) Cal. Certificate No. TL / 022 / 1166.2.1 (TEMPSENS, Udaipur) (Cal. Date: 19/10/22, Due Date: 18/10/23)

1.1 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 300 °C	-29.4	88.562	-29.136	-0.264	0.23
2.		0.5	100.337	0.863	-0.363	0.23
3.		100.9	139.047	101.428	-0.528	0.41
4.		199.8	176.026	200.463	-0.663	0.41
5.		294.3	210.318	295.136	-0.836	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:
Calibration Engineer
 J. Dey
 Measure Techno Lab
 Calibration Engineer
 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 : 01.04.2
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