

THE PIPETEMANN

NABL ACCREDITED CALIBRATION LABORATORY
ADDING ACCURACY TO YOUR EQUIPMENT

MASS - VOLUME - THERMAL - SPEED - PRESSURE - TIMER - ELECTRO TECHNICAL



CERT. NO. CC - 2317

CALIBRATION CERTIFICATE

Certificate no'	TPMCCT20030268	Date of issue	09.03.2020
Job card no'	TPM463032040079	Page	1 of 2
Customer address: M/s. ERODE DIAGNOSTIC LABORATORY, NO.7, PALANIYAPPA STREET, OPP. TO KMCH SPECIALITY HOSPITAL, NEAR GOVERNMENT HOSPITAL ERODE - 638009. PH.NO : 0424-4271880/9789374880.			
Device under calibration (DUC) : TEMPERATURE CONTROLLER WITH SENSOR (INCUBATOR)		Discipline : THERMAL CALIBRATION	
Unique Lab Report Number : ULR -CC231720000001149F		Parameter : TEMPERATURE	
Make	GENUINE	Temperature	28.0 °C
Model no '	-----	Humidity	45 % RH
Serial no '	-----	Receipt no '	9076
Id no '	ELINC009	Receipt date	06.03.2020
Range /Operating Range	34°C to 80 °C / 35°C to 39°C	Calibration date	06.03.2020
Resolution	0.1°C	Calibration due date	05.03.2021
Calibration at	ON SITE	Receiving condition	Good

METHOD OF CALIBRATION:

The method of calibration is based on our SOP No'. : TPMMLDSOP003 (Our SOP is made as per standard DKD - R5-1).

DETAILS OF MASTER EQUIPMENTS USED FOR CALIBRATION:

MASTER EQUIPEMENT'S NAME	SERIAL NUMBER	CERTIFICATE NUMBER	CALIBRATION VALIDITY	CALIBRATED BY	TRACEABILITY
RTD Sensor	RTD042K170037	CS/19/LB/TH/117-01	02/07/2020	R & D	National Standards
Dry Block Temperature Calibrator	TCAL042K170036	RMTL/01/319100339-A1	10/04/2020	ROOTS	National Standards
High Precision Digital Thermometer	HHPT052K170396	ULR -CC287919000005244F	15/05/2020	SANSEL	National Standards

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CALIBRATION RESULTS:

SL. NO'	RANGE (°C)	STANDARD READING (°C)	DUC READING (°C)	DEVIATION (°C)	UNCERTAINTY (±°C)	CMC (Approved by NABL) (°C)
1.	35	35.05	35.1	0.05	0.74	0.74 to 1.26
2.	36	36.09	36.1	0.01	0.74	0.74 to 1.26
3.	37	37.13	37.1	-0.03	0.74	0.74 to 1.26
4.	38	37.94	38.0	0.06	0.74	0.74 to 1.26
5.	39	38.84	38.0	-0.84	0.74	0.74 to 1.26

The reported uncertainties are at Coverage factor $k = 2$ for effective degree of freedom = ∞ and the confidence level is 95%.

CALIBRATED BY

(R.JANARTHANAN)
DEPUTY TECHNICAL MANAGER

APPROVED BY

(K.BALAMAYURPRIYAN)
TECHNICAL MANAGER

DECLARATION:

The calibration certificate is issued for Temperature controller with sensor (Incubator) used for scientific or industrial purpose only.

REMARKS:

1. Master equipments used for calibration are traceable to National Standards
2. The calibration results reported are valid at the time of and under the stated conditions of the measurement
3. Results presented in this certificate relate only to the item mentioned & calibrated by **THE PIPETEMANN**
4. This certificate shall not be reproduced except in full without written approval of **THE PIPETEMANN**
5. The recalibration interval should be determine on the user requirements.
6. All precautions has been taken to avoid any error or omission while calibrating the Device under calibration and issuing the certificate.
7. DUC: Device under calibration, CMC : Calibration Measurement Capability.