

TECHNICAL SERVICES



Sec. No.25, Plot No.49/3, L.I.G. Colony, Pradhikaran, Nigdi, Pune - 411044 Email: globaltechnical007@gmail.com

Mob: 9921239827 / 7276302207 / 9028888728

CALIBRATION CERTIFICATE

1.CUSTOMER

Page No.

:- 1 of 1

HOFFEN DIAGNOSTICS

SRF No

:- GTS/241017/05

BAVDHAN, PUNE

Certificate No.

:- GTS/241017/05-003

Date of Received Date of Calibration :- 17.10.2024 :- 17.10.2024

Next Calibration Due On :- 16.10.2025

Issue Date

:- 21.10.2024

Ambient Temp. (°C) :- 25± 4 Relative Humidity (%RH) :- 30 to 75 Calibration method No.

:- TH-WI-05

Location of calibration Condition of Item

:- In Lab

:- Ok

ULR No

:- CC404824000003280F

2. Description of Item

Name

:- Digital Hygrometer

Range

:- -50 to 80°C/10 to 99%RH

ld No

:- HOF - 13

Least Count Location

:- 0.1°C/1%RH

Make Type

:- APTECH HTC :- Digital

Dept.

:- LAB :- Pathology

Sr No

:- HTC 1

3. Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID No.	Calibration Validity			
Temperature and Humidity Indicator With Sensor	CAL/23-24/CC/642-5	Nashik Engineering Cluster	GTS/THIS/01	03.11.2024			

Discipline Thermal Calibration (Specific heat & Humidity)

	4.Calibration	Results
1	Tomporeture	@ F00

50

90

Temperature @ 50%RH				
Calibration Points	Standard Banding	I IIIO D		
1	Standard Reading	UUC Reading	Error in	Expanded Unc.
°C	°C	°C	°C	in ± °C
10	9.77	10.1	0.33	0.90
20	19.81	20.2	0.39	0.90
40	39.86	40.2	0.34	0.90
Humidity @25°C				
%RH	%RH	0/ DLI	0/511	
		%RH	%RH	in ± %RH
20	19.73	20	0.27	2.40

51

91

- 1)The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95.45% for normal distribution
- 2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration. 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.

49.79

89.85

- 4) Calibration point were selected as per customer specifications.
- 5) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Global Technical Services, Pune".
- 6)The Instruments used for calibration are traceable to National/International standards and their Calibrations are valid.

Calibrated By

Calibration Engineer Rohit L

Approved By

1.21

1.15

Technical Manager Swapnil Bhagwat



2.40

2.40



Nashik Engineering Cluster

(Under the aegis of Department of Industrial Policy & Promotion, (DIPP), Ministry of Commerce & Industry, Govt. of India, New Delhi)





NABL Accredited Testing & Calibration Laboratory as per ISO/IEC:17025:2017, Test House approval from Directorate General of Aeronautical Quality Assurance (DGAQA), Ministry of Defence, Govt. of India, New Delhi

" Sahastrarashmi", C-10, MIDC, Ambad, Nashik-422 010. Tel.: +91 253 6699231,32,91 TeleFax: + 91 253 6699222 E-mail: calibration@nec.org.in, quality.lab@nec.org.in, testinglab@nec.org.in, info@nec.org.in, website: www.nec.org.in

	CALIBRATION CE		Certificate No. CAL/23-24/CC/642-5 ULR No.		
			CC224823000004938F Date of Issue 05.11.2023		
Dig.Te	mp. & Humidity Inc				
Date of Calibration 04.11.2023		Next Calibration Due Date	Page No.	No. of Pages	
		03.11.2024	1	1	
Calibrated For M/S. GLOBAL TECHN 25, Plot No. 49/3, L.I		SERVICES.	•		
		olony, Pradhikaran, Nigdi, Pune-411044			
Date of Receipt 04.11.2023		Challan No.	210		
Condition of the Instrument Functional		Calibrated at	In Lab		
SRF No and date CAL/23-24/CSRF/642		SRF Date	04.11.2023		
NEC ID No. CAL/23-24/ID/642-5		Department			

Details of Te	est Instrument				
Description	Dig.Temp. & Humidity Indicator with Sensor	Make	Politech Instruments Pvt. Ltd.	Model	MIH-PM-RH-T1B-TT
Туре		ID. No.	GTS/THIS/01	Sr No.	
Range	-40 To 60 °C/ 0 To 100 % RH	Least Count	0.01°C / 0.01% RH	Ratio	
Accuracy	±1°C & ± 5% R.H		Calibration Procedure No.	WI/NEC/CAL/THERI	M/05
Calibration	Environments	Temperature	25 + 4°C	Relative Humidity	30 to 75% RH

Reference Standard Used For Calibration (Traceable To National / International Standards) Valid upto Traceability Cal.Cert No Description Make/Model Sr No. 15.12.2023 Transcal, Banglore 0905052 TSC/22-23/13965-2 **Humidity Generator** Thunder Scientific/1200

Temperature

25 ± 4°C

Calibration Results Discipline:-Thermal

Parameter:	Tem	perat	ure	e	50%	RH
						$\overline{}$

Calibration Environments

Set Points	Standard Reading	Reading On UUC*	Deviation	(±) Expanded Uncertainty
°c	• ° C	*c	*c	ъ.
5	5.01	4.80	-0.21	0.52
30	29.99	29.60	-0.39	0.52
50	49.98	49.20	-0.78	0.52

Set Points	Standard Reading	Reading On UUC*	Deviation	(±) Expanded Uncertainty
%	%	%	%	%
10	10.02	10.00	-0.02	1.21
20	20.01	20.00	-0.01	1.21
60	59.95	60.00	0.05	1.21
95	95.82	95.00	-0.82	1.21

UUC*:- Unit Under Calibration

Remarks:

- 1) Due date of calibration (1 Year) is mentioned in the certificate is as per customer request.
- 2) The calibration certificate pertains to the above equipment calibration.
- 3) The calibration certifcate shall not be reproduced except in full, without written approval of the laboratory.
- 4) Uncertainty has been calculated for a coverage factor k=2 corresponding to approximately 95.45 % Confidence Level.
- 5) The Standard maintained are traceable to National / International Standard through accredited Laboratories.
- 6) The observations reported represent values at the time of the measurements, and under the stated conditions. they do not convey any long term stability information.
- 7) Measured O/P is average of 5 reading.

Kanchan Phadol (Calibration Engineer)



Rahul Golesar (Quality Manager)

QR/NEC/CC/01