



RELIABLE TECHNICAL SERVICES

(Division of Reliable Technocare Pvt. Ltd.)

"RELIABLE HOUSE" 497/2834-35, Sant Tukaram Nagar,
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Web. : www.reliable.world



CC-2927

CALIBRATION CERTIFICATE

1.CUSTOMER :- Vinamra Swaraj Hospital Plot 108,108/1,109, Sector 11,Vashi ,Navi Mumvai-400 703 Temperature(°C) :- 22.6 Relative Humidity (%RH) :- 51 Location of calibration :- In Lab /On Site Condition of Item :- Ok	Page No. :- 1 of 1 NABL Accreditation No. :- CC-2927 Certificate No. :- 24.03.09.006 Date of Received :- 09.03.2024 Date of Calibration :- 09.03.2024 Next Calibration Due On :- 08.03.2025 Calibration method No. :- RTS-WI-25 Date of Issue :- 11.03.2024 ULR No. :- CC292724000002046F
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2. Description of Item Name :- Thermo hygrometer Id. No :- VSH/THM/01 Make/Model :- HTC/HTC-1 Type :- Digital	Range :- -10 to 50°C/10 to 99%RH Least Count :- 0.1°C/1% RH Location :- Pathology
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3.Detail of Equipment used for calibration			
Name :- Dig.Thermo Hygrometer with sensor	6½ DMM	PT 100 Sensor	
Certificate No. :- IALTH/00471/23-S1	VI/23-24/5058-04	TL/023/675.1.1	
Certified By :- Belz	VI	Tempens	
ID/Sr. No. :- 61319921	TW00005089	TPRT-1574	
Range :- -40 to 60 °C/ 0 to 100% RH	As per traceability	-200 to 500 °C	
Uncertainty :- ± 0.2 °C/ ± 0.7% RH	As per traceability	± 0.15 °C	
Calibration Validity :- 17.10.2024	20.09.2024	05.06.2024	

Discipline :- Thermal Calibration **Group** :- Specific heat & Humidity

4.Calibration Results :-

A) Temperature @ 50%RH

Calibration Points °C	Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in ± °C
10	9.96	9.9	-0.06	0.30
30	29.92	29.8	-0.12	0.30
50	49.91	49.7	-0.21	0.30

B) Humidity @ 25°C

Calibration Points %RH	Standard Reading %RH	UUC Reading %RH	Error in %RH	Expanded Uncertainty in ± %RH
20	19.5	19	-0.5	1.62
70	69.5	69	-0.5	1.62
90	89.3	88	-1.3	1.62

Note:

- 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% for normal distribution
- This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
- The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- Calibration point were selected as per customer specifications.
- 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 "Reliable Technical Services, Pune".
- The Standard used are traceable to National / International Standard.
- RTS is responsible for all the information in the calibration certificate, except that provided by the customer. Information supplied by the customer can affect the validity of the results.
- Above results are valid for industrial & scientific purpose only

Calibrated By 
Vilas Sagat
Calibration Engineer



Approved By 
Sachin A. Mhasawade
Technical Manager



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CC-2927

CALIBRATION CERTIFICATE

1. CUSTOMER	Page No.	- 1 of 1
Vinamra Swaraj Hospital	NABL Accreditation No.	- CC-2927
Plot 108,108/1,109,	Certificate No.	- 24.03.09.004
Sector 11,Vashi ,Navi Mumvai-400 703	Date of Received	- 09.03.2024
Temperature(°C) :- 23.3	Date of Calibration	- 09.03.2024
Relative Humidity (%RH) :- 51	Next Calibration Due On	- 08.03.2025
Location of calibration :- In Lab /On Site	Calibration method No.	- RTS-WI-25
Condition of Item :- Ok	Date of Issue	- 11.03.2024
	ULR No.	- CC292724000002044F

2. Description of Item		
Name :- Thermohygrometer	Range	-10 to 50°C/10 to 99%RH
Id. No :- VSH/THM/03	Least Count	- 0.1°C/1% RH
Make/Model :- HTC/HTC-1		
Type :- Digital	Location	- Pathology

3. Detail of Equipment used for calibration			
Name :- Dig. Thermo Hygrometer with sensor	6½ DMM	PT 100 Sensor	
Certificate No. :- IALTH/00471/23-S1	VII/23-24/5058-04	TL/023/675.1.1	
Certified By :- Belz	VI	Tempsens	
ID/Sr. No. :- 61319921	TW00005089	TPRT-1574	
Range :- -40 to 60 °C/ 0 to 100% RH	As per traceability	-200 to 500 °C	
Uncertainty :- ± 0.2 °C/ ± 0.7% RH	As per traceability	± 0.15 °C	
Calibration Validity :- 17.10.2024	20.09.2024	05.06.2024	
Discipline :- Thermal Calibration	Group :- Specific heat & Humidity		

4. Calibration Results :-

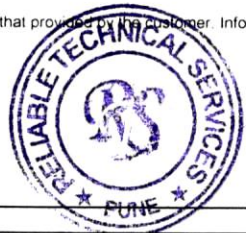
A) Temperature @ 50%RH				
Calibration Points °C	Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in ± °C
10	9.95	10.1	0.15	0.30
30	29.95	30.2	0.25	0.30
50	49.95	50.2	0.25	0.30

B) Humidity @ 25°C				
Calibration Points %RH	Standard Reading %RH	UUC Reading %RH	Error in %RH	Expanded Uncertainty in ± %RH
20	20.3	21	0.7	1.62
70	70.3	71	0.7	1.62
90	90.4	92	1.6	1.62

Note:

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Calibrated By
V. Sagat
Calibration Engineer
Vilas Sagat



Approved By
SM
Technical Manager
Sachin A. Mhasawade



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Vinamra Swaraj Hospital		NABL Accreditation No.	:- CC-2927
Plot 108,108/1,109,		Certificate No.	:- 24.03.09.005
Sector 11,Vashi ,Navi Mumvai-400 703		Date of Received	:- 09.03.2024
Temperature(°C)	:- 22.4	Date of Calibration	:- 09.03.2024
Relative Humidity (%RH)	:- 51	Next Calibration Due On	:- 08.03.2025
Location of calibration	:- In Lab /On Site	Calibration method No.	:- RTS-WI-25
Condition of Item	:- Ok	Date of Issue	:- 11.03.2024
		ULR No.	:- CC292724000002045F

2. Description of Item			
Name	:- Thermohygrometer	Range	:- -10 to 50°C/10 to 99%RH
Id. No	:- VSH/THM/04	Least Count	:- 0.1°C/1% RH
Make/Model	:- HTC/HTC-1		
Type	:- Digital	Location	:- Pathology

3.Detail of Equipment used for calibration			
Name	:- Dig.Thermo Hygrometer with sensor	6½ DMM	PT 100 Sensor
Certificate No.	:- IALTH/00471/23-S1	VI/23-24/5058-04	TL/023/675.1.1
Certified By	:- Belz	VI	Tempens
ID/Sr. No.	:- 61319921	TW00005089	TPRT-1574
Range	:- -40 to 60 °C/ 0 to 100% RH	As per traceability	-200 to 500 °C
Uncertainty	:- ± 0.2 °C/ ± 0.7% RH	As per traceability	± 0.15 °C
Calibration Validity	:- 17.10.2024	20.09.2024	05.06.2024

Discipline :- Thermal Calibration **Group** :- Specific heat & Humidity

4.Calibration Results

A) Temperature @ 50%RH

Calibration Points °C	Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in ± °C
10	9.97	9.9	-0.07	0.30
30	29.93	29.8	-0.13	0.30
50	49.88	49.7	-0.18	0.30

B) Humidity @ 25°C

Calibration Points %RH	Standard Reading %RH	UUC Reading %RH	Error in %RH	Expanded Uncertainty in ± %RH
20	19.9	21	1.1	1.62
70	69.5	71	1.5	1.62
90	89.3	91	1.7	1.62

Note:

- 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% for normal distribution
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- Above results are valid for industrial & scientific purpose only

Calibrated By
V. Sagat
Calibration Engineer
Vilas Sagat



Approved By
SM
Technical Manager
Sachin A. Mhasawade



Calibration Certificate



FORMAT NO. BELZ/F/28A
ULR - CC273323800001681F

CERTIFICATE NO. IALTH/00471/23-S1

Superseding to Calibration Cert No. IALTH/00471/23

Customer Name	: Reliable Technical Services	Customer Address	: Reliable House, 497/2834-35, Sant Tukaram Nagar, Pimpri, Pune, Maharashtra, India
Instrument/Parameter	: Digital Thermo Hygrometer with Sensor	Physical Condition	: Okay
Equipment/Machine	: N/A	Equipment Location	: N/A
Make	: Yudian	Calibration Location	: At Lab
Serial No.	: 61319921	Service Request No. & Date	: SO23-17599-17/10/2023
ID No.	: RTS-HYG-04	Certificate Issue Date	: 26/10/2023
Range	: 0 to 60 °C / 0 to 100 %rh	Start Date of Calibration	: 17/10/2023
Resolution/Least Count	: 0.1 °C / 0.1 %rh	End Date of Calibration	: 17/10/2023
Accuracy/Acceptance Criteria	: N/A	Recommended Due Date	: 17/10/2024

Calibration Method

Procedure number : Cl(T) - 07

The calibration was performed at an ambient temperature of 25 ± 3 °C, and a relative humidity of 35 to 70 %rh

Working Standard

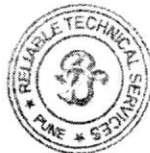
Equipment Name	Serial No / ID No	Traceability	Certificate No	Due On
1 Super DAQ Precision	43580036/43660220	Farelabs (CC-2739)	FLC/ET/26112022-021	29/11/2023
2 Standard Platinum Resistance Thermometer (SPRT)	05580	Farelabs (CC-2739)	FLC/TH/11032023-C001	13/03/2024
3 Digital Humidity & Temperature Indicator with Sensor	6220/20365987	Farelabs (CC-2739)	FLC/TH/12012023-C002	13/01/2024

Notes

- The report shall not be reproduced except in full, without the written permission of the laboratory
- The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement for the particular sample
- The calibration certificate documents the traceability to National / International standards which realise the units of measurements according to the International System of Units (SI)
- The expanded uncertainty was evaluated at a confidence level of approx 95.45 % with Coverage factor (k) = 2
- Calibration certificates issued for weight and measure parameters i.e. Mass, Balance, Volumetric equipment, Measuring scales / tapes etc. are for scientific purpose only and should not be used for trade / commercial use
- The user should decide on the usability of this document for its intended use
- This certificate replaces our earlier certificate no. IALTH/00471/23 after correcting typographical error in average standard reading for nominal value 40 °C & 50 °C

Remarks

Status report only



Calibrated By
Prince

Verified By
Dharmendar Kumar

Authorized Signatory
Vaishali Nehra

Vaishali

Page 1 of 2

BELZ CALIBRATION LAB
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5L-123, NIT Faridabad-121001, Haryana, India
E-mail: info@belz.in Website: www.belz.in GST No.: CGAABCB7053L12M



Calibration Certificate



FORMAT NO. BELZ/F/28A
ULR - CC273323800001681F

CERTIFICATE NO. IALTH/00471/23-S1

Superseding to Calibration Cert No. IALTH/00471/23

Calibration Results(As Found)

Average Ambient Temperature	: 24.5 °C
Average Ambient Relative Humidity	: 49 %rh

Temperature @50%rh					
S. No.	Nominal Value	Average UUC Reading	Average Standard Reading	Error	Expanded Uncertainty
1	0 °C	0.1 °C	0.176 °C	-0.076 °C	± 0.2 °C
2	10 °C	10.1 °C	9.918 °C	0.182 °C	± 0.2 °C
3	20 °C	19.9 °C	19.632 °C	0.268 °C	± 0.2 °C
4	40 °C	39.8 °C	39.576 °C	0.224 °C	± 0.2 °C
5	50 °C	49.8 °C	49.487 °C	0.313 °C	± 0.2 °C

Average Ambient Temperature	: 24.5 °C
Average Ambient Relative Humidity	: 49 %rh

Relative Humidity @25°C					
S. No.	Nominal Value	Average UUC Reading	Average Corrected Standard Reading	Error	Expanded Uncertainty
1	10 %rh	10.1 %rh	9.72 %rh	0.38 %rh	± 0.6 %rh
2	30 %rh	29.9 %rh	29.62 %rh	0.28 %rh	± 0.6 %rh
3	50 %rh	49.9 %rh	49.37 %rh	0.53 %rh	± 0.6 %rh
4	70 %rh	69.8 %rh	68.75 %rh	1.05 %rh	± 0.6 %rh
5	95 %rh	94.7 %rh	93.87 %rh	0.83 %rh	± 0.6 %rh



Calibrated By
Prince

Verified By
Dharmendar Kumar

Authorized Signatory
Vaishali Nehra

Vaishali

Page 2 of 2

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