

• Calibration • Repair • Sales & Services • Validation of Equipments



Row House. S-230, Ground Floor, Sector-4, Opp Durgamata Mandir, Near Navratri Prasad Hotel, Airoli, Navi Mumbai - 400 708. $Tel.: 9029080659 \ / \ 9870378170 \ / \ 9970273137 \bullet E-mail: skymumbai1@gmail.com \ / \ skyinstruments1@yahoo.com \bullet \ Web: www.skycalibration.com \ / \ skyinstruments1@yahoo.com \bullet \ Web: www.skycalibration.com \ / \ skyinstruments1@yahoo.com \ / \ skyi$

□CC - 2174

NABL ACCREDIATION CERTIFICATE NO. CC-2174 (MECHANICAL, ELECTRO-TECHNICAL, THERMAL)

	CALIBRATION	CERTIFICATE		
1. CUSTOMER	:- Vishwaraj Hospital Loni	Page No. NABL Certificate No ULR No. Date of Receipt Discipline Group Issue Date Service Request No. Certificate No.	:- 1 OF 1 :- CC-2174 :- CC21742100 :- 18/11/2021 :- Thermal :- Temperature :- 18/11/2021 :- 2021/11/028 :- SIC/2021/11	
Ambient Temp.	:- 25°C	Date of Calibration	:- 18/11/2021	
Relative Humidity	:- 60% RH	Next Calibration Due On	:- 17/11/2022	
Location of calibration	:- IN LAB	Calibration method No.	:- SIC/WI/TH-0)4
Condition of Item	:- OK	Reference I.S.	:- IS-2480 PAF	RT I&II
2. Description of Iten	1			
Name Make	:- Thermometer :- Mextech/ST-9283B	Range Resolution	:50 to 300 :- 0.1	°C °C
I.D No.	:	Specified Accuracy	:	
Туре	:- Digital	Location	:	
Sr no	:- M18035229			
3.Detail of Equipmen	nt used for calibration			
Name Make/I.D No. Certificate No. Certified By Calibration Validity	:- PT-100 Sensor with Indicator :- Tempsens / SI-TS-01 :- TL/020/1070.2.2 :- Tempsens Calibration Center :- 16/12/2021		4	
4. Calibration Results	S :-			1
Calibration Points OC	UUC Reading OC	Standard Reading °C	Error in °C	Expanded Uncertainty in OC
-30	-30.0	-29.99	-0.01	
50	50.0	50.06	-0.06	
100	100.0	100.13	-0.13	±0.8
200	200.0	200.18	-0.18	100000000000000000000000000000000000000
250	249.9	250.14	-0.24	And the second second

Temp. Scale ITS-90

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

1) UUC stands for Unit Under Calibration.

2)Reported reading is average of 5 set of measurement

Calibrated By

Calibration Engineer

Approved By

(Mr.Sunil Deshmukh)



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NABL ACCREDIATION CERTIFICATE NO. CC-2174 (MECHANICAL, ELECTRO-TECHNICAL, THERMAL)

	CALIBRATIO	ON CERTIFICATE	
1. CUSTOMER	:- Vishwaraj Hospital Loni	Page No.	:- 1 OF 1
		NABL Certificate No.	CC-2174
		ULR No.	:- CC217421000002596F
		Date of Receipt	:- 18/11/2021
		Discipline	:- Thermal
		Group	:- Temperature
		Issue Date	:- 18/11/2021
		Service Request No.	:- 2021/11/028
		Certificate No.	:- SIC/2021/11/096
Ambient Temp.	:- 25°C	Date of Calibration	:- 18/11/2021
Relative Humidity	:- 60% RH	Next Calibration Due On	
Location of calibration	:- IN LAB	Calibration method No.	:- SIC/WI/TH-04
Condition of Item	:- OK	Reference I.S.	:- IS-2480 PART I&II
2. Description of Iten	n		
Name	:- Thermometer	Range	:50 to 300 °C
Make	:- Mextech/ST-9283B	Resolution	:- 0.1 °C
I.D No.	;	Specified Accuracy	:
Туре	:- Digital	Location	:
	1110001757		

- M18034757 3.Detail of Equipment used for calibration

:- PT-100 Sensor with Indicator Name

:- Tempsens / SI-TS-01 Make/I.D No. :- TL/020/1070.2.2 Certificate No.

:- Tempsens Calibration Center Certified By

:- 16/12/2021 Calibration Validity

4. Calibration Results :-				I =
Calibration Points	UUC Reading oC	Standard Reading OC	Error in °C	Expanded Uncertainty in OC
-30	-30.0	-29.97 50.09	-0.03 -0.09	
50	50.0 100.0	100.18	-0.09	±0.8
100	200.0	200.24	-0.24	
250	249.9	250.22	-0.32	

Temp. Scale ITS-90

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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NABL ACCREDIATION CERTIFICATE NO. CC-2174 (MECHANICAL, ELECTRO-TECHNICAL, THERMAL)

□CC - 2174

CALIBRATION CERTIFICATE

1. CUSTOMER - Vishwaraj Hospital Loni

Page No. NABL Certificate No

:- 1 OF 1 :- CC-2174

ULR No.

:- CC217421000002594F

Date of Receipt Discipline

:- 18/11/2021 :- Thermal

Group Issue Date Service Request No. :- 2021/11/028

:- Temperature :- 18/11/2021

Certificate No.

:- SIC/2021/11/094

Date of Calibration :- 18/11/2021 Next Calibration Due On :- 17/11/2022

Calibration method No. :- SIC/WI/TH-04

Reference I.S.

:- IS-2480 PART I&II

2. Description of Item

Location of calibration :- IN LAB

:- Thermometer

:- 25°C

:- OK

:- 60% RH

Range Resolution :- -50 to 300

°C

Make I.D No.

Name

Ambient Temp.

Relative Humidity

Condition of Item

:- Mextech/ST-9283B

0.1

Type

:- Digital

:- M18034446

Specified Accuracy Location

Sr no. 3.Detail of Equipment used for calibration

Name

:- PT-100 Sensor with Indicator

Make/I.D No.

:- Tempsens / SI-TS-01

Certificate No.

:- TL/020/1070.2.2

Certified By

:- Tempsens Calibration Center

Calibration Validity

16/12/2021

-		Salar				
A	Ca	lih	ratio	n D	ocult	

Calibration Points	UUC Reading	Standard Reading	Error in	Europedad
°C	°C	ocalidate reading	00	Expanded
30	-30.0	20.02		Uncertainty in °C
-30		-29.93	-0.07	
50	50.0	50.07	-0.07	
100	100.0	100.12	-0.12	±0.8
200	200.0	200.19	-0.19	
250	249.9	250.15	-0.25	

Temp. Scale ITS-90

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

Note:

1) UUC stands for Unit Under Calibration.

2)Reported reading is average of 5 set of measurement

Calibrated ation Engineer

Approved By

Technical Manager (Mr.Sunil Deshmukh)



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ULR No.

NABL ACCREDIATION CERTIFICATE NO. CC-2174 (MECHANICAL, ELECTRO-TECHNICAL, THERMAL)

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CALIBR	AHON	CERI	ILICA	115

:- 1 OF 1 Page No. :- Vishwaraj Hospital Loni 1. CUSTOMER CC-2174 NABL Certificate No. :- CC217421000002595F

:- 18/11/2021 Date of Receipt :- Thermal Discipline :- Temperature Group :- 18/11/2021

Issue Date Service Request No. :- 2021/11/028 :- SIC/2021/11/095 Certificate No. :- 18/11/2021 Date of Calibration

Ambient Temp. :- 25°C Next Calibration Due On :- 17/11/2022 :- 60% RH Relative Humidity Calibration method No. :- SIC/WI/TH-04 Location of calibration :- IN LAB :- IS-2480 PART I&II Reference I.S. Condition of Item :- OK

2. Description of Item

:- -50 to 300 °C Range :- Thermometer Name 0.1 Resolution :- Mextech/ST-9283B Make

Specified Accuracy I.D No. Location :- Digital Type :- M18035153 Sr no

3.Detail of Equipment used for calibration

:- PT-100 Sensor with Indicator Name

:- Tempsens / SI-TS-01 Make/I.D No. :- TL/020/1070.2.2 Certificate No.

:- Tempsens Calibration Center Certified By

:- 16/12/2021 Calibration Validity

4. Calibration Results :-		Ot 1 ID-adias	Error in	Expanded
Calibration Points	UUC Reading	Standard Reading OC	°C	Uncertainty in ^o C
-30 50 100 200	-30.0 50.0 100.0 200.0 249.9	-29.99 50.09 100.16 200.23 250.19	-0.01 -0.09 -0.16 -0.23 -0.29	±0.8

Temp. Scale ITS-90

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

Note:

1) UUC stands for Unit Under Calibration.

2)Reported reading is average of 5 set of measurement.

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Calibration Engineer

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□CC - 2174

:- 1 OF 1 Page No. :- Vishwaraj Hospital Loni 1. CUSTOMER

CALIBRATION CERTIFICATE

CC-2174 NABL Certificate No. :- CC217421000002597F ULR No.

:- 18/11/2021 Date of Receipt :- Thermal Discipline :- Temperature Group :- 18/11/2021

Issue Date :- 2021/11/028 Service Request No. :- SIC/2021/11/097 Certificate No.

:- 18/11/2021 Date of Calibration Next Calibration Due On :- 17/11/2022 Calibration method No. :- SIC/WI/TH-04 :- IS-2480 PART I&II Reference I.S.

:- OK Condition of Item 2. Description of Item

Location of calibration :- IN LAB

Ambient Temp.

Relative Humidity

:- -50 to 300 °C Range Name Thermometer °C 0.1 Resolution :- Mextech/ST-9283B Make

Specified Accuracy I.D No. ---Location :- Digital Type :- M18034910 Sr no

3.Detail of Equipment used for calibration

:- PT-100 Sensor with Indicator Name

:- 25°C

:- 60% RH

Make/I.D No. :- Tempsens / SI-TS-01 :- TL/020/1070.2.2 Certificate No.

:- Tempsens Calibration Center Certified By

Calibration Validity :- 16/12/2021

4.Calibration Results :-		1 0: 1 1D 1:	Ceros in	Expanded
Calibration Points	UUC Reading oC	Standard Reading OC	Error in °C	Uncertainty in OC
-30 -50 100 200	-30.0 50.0 100.0 200.0 249.9	-29.99 50.06 100.12 200.19 250.14	-0.01 -0.06 -0.12 -0.19 -0.24	±0.8

Temp. Scale ITS-90

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

Note:

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2)Reported reading is average of 5 set of measurement

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Calibration Engineer

Approved By

Technical Manager (Mr.Sunil Deshmukh)



TEMPSENS

TEMPSENS CALIBRATION CENTRE

A Division of Tempsens Instruments (I) Pvt. Ltd. B-188A, ROAD NO. 5, M.I.A., UDAIPUR-313003 INDIA D: +91-294-3507715, Fax:+91-294-2492447, 3507731 E-mail: lab@tempsens.com, Website: www.tempsens.com

Calibration Certificate No.: TL/020/1070.2.2 ULR No.: CC284020000007709F

Page: 01 OF 01

M/S SKY INSTRUMENTS & CONTROLS J.O.NO. : T220/2/2113005201 **ROW HOUSE NO. S-230, OPP DURGAMATA Received Date** : 16/12/2020 MANDIR, SECTOR 4, AIROLI, NAVI MUMBAI, 400708 **Calibration Date** : 17/12/2020 MAHARASHTRA Next Cali. Due On : 16/12/2021 : 18/12/2020 **Issue Date**

Sample Description : Calibration Required At

: -30, 0, 100, 200 & 250 °C

Item

: PT100X1, SIMPLEX, 4 WIRE RTD WITH INDICATOR

Inst.Sr.No. : 26943 Inst. Id.No. : SI -TS - 01 Indi. Sr.No. : 15B065830 Indi. Id.No. : SI- ET- 15 Location : AT Lab Condition of item

Calibration Procedure : The UUC was allowed to be stable at specified temperature points.

: Satisfactory

The reading of Standard and UUC was recorded. This Certificate Format No. F-LAB-6 The report provides the reading and deviation. As per Work Instruction no. WI-LAB-16.

Temperature (in °C) against RTD reading (in Ohms) are calculated by using ASTME-1137/E1137M-04. Minimum Immersion depth for RTD is 100 MM.

The UUC has been compared with the following working standards of sensor & measuring instrum

Standards	Traceable To	Certificate No.	Valid Up to
SSPRT CALSYS -80/50 CALSYS 300	TEMPSENS, UDAIPUR	TL/020/322.1.1	01.06.2021
PRECISION THERMOMETER	YMPL, UDAIPUR	YMPL/319215/109614	02.07.2021

The Standards used for calibration is traceable to National / International Standard. The results of calibration are as under: Reference junction calculated at 0 °C

Sr. No.	Standard Sensor	UUC °C	Dev.	Expanded uncertainty (±°C)
1	-29.43	-29.30	0.13	0.10
2	0.04	0.15	0.11	0.10
3	100.10	100.32	0.22	0.10
4	199.64	199.96	0.32	0.12
5	249.75	250.19	0.44	0.12

mperature Scale: ITS - 90 SKY INSTRUMENTS & CONTROLS

Authoris

Ambient Temp.: 25±2°C

Relative Humidity: 50±20%RH

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Checked By

Technical Manager

photocopy HOVE CUSTOMER Nota-

(1) The calibration results reported in this certificate are valid at the time of and under the stated condition of measurement for the particular sample.

(2) The report shall not be reproduced except in full, without written permission of the laboratory

(3) Coverage factors"k" = 2 at approx 95.45% confidence level.

Next Calibration Due Date mentioned as per customer requirement

- TEMPERATURE SENSOR TECHNOLOGY -

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The second second		ION CERTIFICATE		
Ambient Temp. Relative Humidity Location of calibration		Page No. Date of Receipt Service Request No. Certificate No. Date of Calibration Next Calibration Due On Calibration method No. Reference I.S.	:- 1 OF 1 :- 18/11/2021 :- 2021/11/0281 :- SIC/2021/11/ :- 18/11/2021 :- 17/11/2022 :- SIC/WI/TH-0 :- Comparision	089N 4
Condition of Item 2. Description of Item	:- OK			
Name Make/Model Sr No Type	:- Thermo Hygrometer :- Mextech TM1 :- M303770 :- Digital	Range Resolution Specified Accuracy Location	:10 to 50 °C/ :- 0.1°C / 1%R :	
Id.No.	it used for calibration			
Make/I.D No. Certificate No. Certified By Calibration Validity 4.Calibration Result	:- Dig.Thermohygrometer :- HTC-1/SI-ENV-02 :- CCL/201214/HUM/01 :- Calitron Calibration Laboratory :- 14/12/2021			
Temperature				
Calibration Points ^O C	UUC Reading °C	Standard Reading ^o C	Error in °C	Expanded Uncertainty in OC
-10 10 20 30 50	-10.0 10.0 19.9 29.9 49.8	-9.91 10.13 20.13 30.16 50.17	-0.09 -0.13 -0.23 -0.26 -0.37	±0.4
Humidity				
Calibration Points %RH	UUC Reading %RH	Standard Reading %RH	Error in %RH	Expanded Uncertainty in %
20 40 60 80	20 40 60 80 90	20.1 40.3 60.5 80.5	-0.1 -0.3 -0.5 -0.5	±1.0

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

Note:

1) UUC stands for Unit Under Calibration.

2)Reported reading is average of 5 set of measurement

Calibrated By

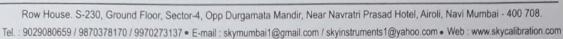
Calibration Engineer

Approved By

Technical Manager (Sunil Deshmukh)

SF-3

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	CALIBRAT	TION CERTIFICATE	
1. CUSTOMER	:- Vishwaraj Hospital Loni	Page No. Date of Receipt Service Request No. Certificate No. Date of Calibration	:- 1 OF 1 :- 18/11/2021 :- 2021/11/028N :- SIC/2021/11/090N :- 18/11/2021
Ambient Temp. Relative Humidity Location of calibration Condition of Item	:- 25 ⁰ C :- < 60% 1:- INLAB :- OK	Next Calibration Due On Calibration method No. Reference I.S.	:- 17/11/2022 :- SIC/WI/TH-04 :- Comparision method
2. Description of Iter	n		
Name Make/Model Sr No Type Id.No.	:- Thermo Hygrometer :- Mextech TM1 :- M303772 :- Digital	Range Resolution Specified Accuracy Location	:10 to 50 °C/20 to 99 %RH :- 0.1°C / 1%RH : :-

Name :- Dig.Thermohygrometer Make/I.D No. :- HTC-1/SI-ENV-02 Certificate No. :- CCL/201214/HUM/01

:- Calitron Calibration Laboratory Certified By

Calibration Validity :- 14/12/2021

4. Calibration Results

Calibration Points	UUC Reading °C	Standard Reading °C	Error in °C	Expanded Uncertainty in ^o C
-10	-10.0	-9.95	-0.05	
10	10.0	10.08	-0.08	100 100 000
20	20.0	20.14	-0.14	±0.4
30	29.9	30.09	-0.19	
50	49.8	50.05	-0.25	

Humidity		Otradad Badina	I Francis	
Calibration Points , %RH	UUC Reading %RH	Standard Reading %RH	Error in %RH	Expanded Uncertainty in %
	20	20.1	-0.1	
20	40	40.2	-0.2	100000000000000000000000000000000000000
40	60	60.3	-0.3	±1.0
60	80	80.5	-0.5	
80	90	90.7	-0.7	

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

Note:

1) UUC stands for Unit Under Calibration. 2)Reported reading is average of 5 set of meas

Calibrated By

Calibration Engineer

Approved By

Technical Manager (Sunil Deshmukh)

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	CALIBRATIO	ON CERTIFICATE		
1. CUSTOMER Ambient Temp.	:- Vishwaraj Hospital Loni :- 25°C	Page No. Date of Receipt Service Request No. Certificate No. Date of Calibration Next Calibration Due On	:- 1 OF 1 :- 18/11/2021 :- 2021/11/028 :- SIC/2021/11 :- 18/11/2021 :- 17/11/2022	/091N
Location of calibration	:- < 60% :- IN LAB :- OK	Calibration method No. Reference I.S.	:- SIC/WI/TH-04 :- Comparision method	
2. Description of Iter	n			
	:- Thermo Hygrometer :- Mextech TM1 :- M303774 :- Digital	Range Resolution Specified Accuracy Location	:10 to 50 °C/20 to 99 %RH :- 0.1°C / 1%RH : :-	
Id.No.	nt used for calibration		-	
Name Make/I.D No.	:- Dig.Thermohygrometer :- HTC-1/SI-ENV-02 :- CCL/201214/HUM/01 :- Calitron Calibration Laboratory :- 14/12/2021			
4.Calibration Result				
Temperature				
Calibration Points OC	UUC Reading °C	Standard Reading OC	Error in °C	Expanded Uncertainty in O
-10 10	-10.0 10.0	-9.98 10.07	-0.02 -0.07	.0.4

50	49.8	50.09	-0.29	
Humidity		Or to the disc	Tana in	5 11
Calibration Points	UUC Reading	Standard Reading	Error in	Expanded
	%RH	%RH	%RH	Uncertainty in %
%RH	10	10.1	-0.1	
10	40	40.2	-0.2	
40 '	60	60.4	-0.4	±1.0
60	80	80.6	-0.6	
80	00	90.9	-0.9	1000000

20.05

30.11

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

19.9

29.9

Note:

1) UUC stands for Unit Under Calibration.

2)Reported reading is average of 5 set of me

Calibrated By

Calloration Engineer

20

Approved By

Technical Manager (Sunil Deshmukh)

±0.4

-0.15

-0.21

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4 0110	CALIBRAT	ION CERTIFICATE		
1. CUSTOMER Ambient Temp. Relative Humidity Location of calibration Condition of Item	:- Vishwaraj Hospital Loni :- 25°C :- < 60%	Page No. Date of Receipt Service Request No. Certificate No. Date of Calibration Next Calibration Due On Calibration method No. Reference I.S.	:- 1 OF 1 :- 18/11/2021 :- 2021/11/028N :- SIC/2021/11/092N :- 18/11/2021 :- 17/11/2022 :- SIC/WI/TH-04 :- Comparision method	
2. Description of Iten	1			
Certificate No. Certified By Calibration Validity	:- Dig.Thermohygrometer :- HTC-1/SI-ENV-02 :- CCL/201214/HUM/01 :- Calitron Calibration Laboratory :- 14/12/2021	Range Resolution Specified Accuracy Location	:10 to 50 °C :- 0.1°C / 1%l : :	C/20 to 99 %RH RH
4.Calibration Results	:-			
Calibration Points	UUC Reading °C	Standard Reading °C	Error in °C	Expanded Uncertainty in OC
-10 10 20 30 50	-10.0 10.0 19.9 29.9 49.8	-9.99 10.09 20.08 30.17 50.14	-0.01 -0.09 -0.18 -0.27 -0.34	±0.4

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UUC Reading

%RH

20

40

60

80

90

Note:

Humidity

Calibration Points

%RH

20

40

60

80

90

UUC stands for Unit Under Calibration.
 Reported reading is average of 5 set of measure.

Carry .

Calibration Engineer

Approved By

Standard Reading

%RH

20.1

40.3

60.5

80.7

90.9

Error in

%RH

-0.1

-0.3

-0.5

-0.7

-0.9

Technical Manager (Sunil Deshmukh)

Expanded

Uncertainty in %

±1.0

SF-39