



SKY INSTRUMENTS & CONTROLS

• 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 • E-mail : skymumbai1@gmail.com / skyinstruments1@yahoo.com • Web : www.skycalibration.com



CC - 2174

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

CALIBRATION CERTIFICATE

1. CUSTOMER :- Vishwaraj Hospital Loni	Page No.	:- 1 OF 1
	NABL Certificate No	:- CC-2174
	ULR No.	:- CC217421000002593F
	Date of Receipt	:- 18/11/2021
	Discipline	:- Thermal
	Group	:- Temperature
	Issue Date	:- 18/11/2021
	Service Request No.	:- 2021/11/028
	Certificate No.	:- SIC/2021/11/093
Ambient Temp.	Date of Calibration	:- 18/11/2021
Relative Humidity	Next Calibration Due On	:- 17/11/2022
Location of calibration	Calibration method No.	:- SIC/WI/TH-04
Condition of Item	Reference I.S.	:- IS-2480 PART I&II

2. Description of Item

Name	:- Thermometer	Range	:- -50 to 300 °C
Make	:- Mextech/ST-9283B	Resolution	:- 0.1 °C
I.D No.	:- --	Specified Accuracy	:- --
Type	:- Digital	Location	:- --
Sr no	:- M18035229		

3. Detail of Equipment used for calibration

Name	:- PT-100 Sensor with Indicator
Make/I.D No.	:- Tempens / SI-TS-01
Certificate No.	:- TL/020/1070.2.2
Certified By	:- Tempens Calibration Center
Calibration Validity	:- 16/12/2021

4. Calibration Results :-

Calibration Points °C	UUC Reading °C	Standard Reading °C	Error in °C	Expanded Uncertainty in °C
-30	-30.0	-29.99	-0.01	±0.8
50	50.0	50.06	-0.06	
100	100.0	100.13	-0.13	
200	200.0	200.18	-0.18	
250	249.9	250.14	-0.24	

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 By

Calibration Engineer



Approved By

Technical Manager
(Mr. Sunil Deshmukh)

SF-39



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CALIBRATION 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 :- 17/11/2022
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 Item	
Name :- Thermometer	Range :- -50 to 300 °C
Make :- Mextech/ST-9283B	Resolution :- 0.1 °C
I.D No. :- --	Specified Accuracy :- --
Type :- Digital	Location :- --
Sr no. :- M18034757	

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	

4. Calibration Results :-				
Calibration Points °C	UUC Reading °C	Standard Reading °C	Error in °C	Expanded Uncertainty in °C
-30	-30.0	-29.97	-0.03	±0.8
50	50.0	50.09	-0.09	
100	100.0	100.18	-0.18	
200	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

- Note:**
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CALIBRATION CERTIFICATE

1. CUSTOMER :- Vishwaraj Hospital Loni

Ambient Temp. :- 25°C
Relative Humidity :- 60% RH
Location of calibration :- IN LAB
Condition of Item :- OK

Page No. :- 1 OF 1
NABL Certificate No :- CC-2174
ULR No. :- CC217421000002594F
Date of Receipt :- 18/11/2021
Discipline :- Thermal
Group :- Temperature
Issue Date :- 18/11/2021
Service Request No. :- 2021/11/028
Certificate No. :- SIC/2021/11/094
Date of Calibration :- 18/11/2021
Next Calibration Due On :- 17/11/2022
Calibration method No. :- SIC/MI/TH-04
Reference I.S. :- IS-2480 PART I&II

2. Description of Item

Name :- Thermometer
Make :- Mextech/ST-9283B
I.D No. :- --
Type :- Digital
Sr no. :- M18034446

Range :- -50 to 300 °C
Resolution :- 0.1 °C
Specified Accuracy :- --
Location :- --

3. Detail of Equipment used for calibration

Name :- PT-100 Sensor with Indicator
Make/I.D No. :- Tempens / SI-TS-01
Certificate No. :- TL/020/1070.2.2
Certified By :- Tempens Calibration Center
Calibration Validity :- 16/12/2021

4. Calibration Results :-

Calibration Points °C	UUC Reading °C	Standard Reading °C	Error in °C	Expanded Uncertainty in °C
-30	-30.0	-29.93	-0.07	±0.8
50	50.0	50.07	-0.07	
100	100.0	100.12	-0.12	
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:

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CALIBRATION CERTIFICATE

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Ambient Temp. :- 25°C
Relative Humidity :- 60% RH
Location of calibration :- IN LAB
Condition of Item :- OK

Page No. :- 1 OF 1
NABL Certificate No. CC-2174
ULR No. :- CC217421000002595F
Date of Receipt :- 18/11/2021
Discipline :- Thermal
Group :- Temperature
Issue Date :- 18/11/2021
Service Request No. :- 2021/11/028
Certificate No. :- SIC/2021/11/095
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

Name :- Thermometer
Make :- Mextech/ST-9283B
I.D No. :- --
Type :- Digital
Sr no :- M18035153

Range :- -50 to 300 °C
Resolution :- 0.1 °C
Specified Accuracy :- --
Location :- --

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

4. Calibration Results :-

Calibration Points °C	UUC Reading °C	Standard Reading °C	Error in °C	Expanded Uncertainty in °C
-30	-30.0	-29.99	-0.01	±0.8
50	50.0	50.09	-0.09	
100	100.0	100.16	-0.16	
200	200.0	200.23	-0.23	
250	249.9	250.19	-0.29	

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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CALIBRATION CERTIFICATE

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Ambient Temp. :- 25°C
Relative Humidity :- 60% RH
Location of calibration :- IN LAB
Condition of Item :- OK

Page No. :- 1 OF 1
NABL Certificate No. :- CC-2174
ULR No. :- CC217421000002597F
Date of Receipt :- 18/11/2021
Discipline :- Thermal
Group :- Temperature
Issue Date :- 18/11/2021
Service Request No. :- 2021/11/028
Certificate No. :- SIC/2021/11/097
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

Name :- Thermometer
Make :- Mextech/ST-9283B
I.D No. :- --
Type :- Digital
Sr no. :- M18034910

Range :- -50 to 300 °C
Resolution :- 0.1 °C
Specified Accuracy :- --
Location :- --

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

4. Calibration Results

Calibration Points °C	UUC Reading °C	Standard Reading °C	Error in °C	Expanded Uncertainty in °C
-30	-30.0	-29.99	-0.01	±0.8
50	50.0	50.06	-0.06	
100	100.0	100.12	-0.12	
200	200.0	200.19	-0.19	
250	249.9	250.14	-0.24	

Temp. Scale ITS-90

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

Page : 01 OF 01

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

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 : Satisfactory

Calibration Procedure : The UUC was allowed to be stable at specified temperature points. 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 ASTM E-1137/E1137M-04. Minimum Immersion depth for RTD is 100 MM.

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

Standards	Traceable To	Certificate No.	Valid Up to
SSPRT CALSYS -80/50 CALSYS 300 PRECISION THERMOMETER	TEMPESENS, UDAIPUR YMPL, UDAIPUR	TL/020/322.1.1 YMPL/319215/109614	01.06.2021 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 °C	UUC °C	Dev. °C	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

Temperature Scale: ITS - 90

Ambient Temp. : 25±2°C

Relative Humidity : 50±20%RH

SKY INSTRUMENTS & CONTROLS
S-230, Sector 4, Airoli, Navi Mumbai

Master Copy
Calibrated By: *Vishwanath*
Issue Date: 18/12/21
Author: *[Signature]*
Note: This is a security photocopy
Valid for use above customer

Checked By: *[Signature]*

Certified By: *[Signature]*
Alpesh Parakh
Technical Manager

- (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 factor "k" = 2 at approx 95.45% confidence level.
- (4) Next Calibration Due Date mentioned as per customer requirement

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CALIBRATION CERTIFICATE

1. CUSTOMER	:- Vishwaraj Hospital Loni		Page No.	:- 1 OF 1	
			Date of Receipt	:- 18/11/2021	
			Service Request No.	:- 2021/11/028N	
			Certificate No.	:- SIC/2021/11/089N	
			Date of Calibration	:- 18/11/2021	
Ambient Temp.	:- 25°C		Next Calibration Due On	:- 17/11/2022	
Relative Humidity	:- < 60%		Calibration method No.	:- SIC/WI/TH-04	
Location of calibration	:- INLAB		Reference I.S.	:- Comparison method	
Condition of Item	:- OK				

2. Description of Item

Name	:- Thermo Hygrometer		Range	:- -10 to 50 °C/20 to 99 %RH	
Make/Model	:- Mextech TM1		Resolution	:- 0.1°C / 1%RH	
Sr No	:- M303770		Specified Accuracy	:- --	
Type	:- Digital		Location	:-	
Id.No.	:- --			:-	

3. Detail of Equipment used for calibration

Name	:- Dig. Thermohygrometer	
Make/I.D No.	:- HTC-1/SI-ENV-02	
Certificate No.	:- CCL/201214/HUM/01	
Certified By	:- Calitron Calibration Laboratory	
Calibration Validity	:- 14/12/2021	

4. Calibration Results :-

Temperature

Calibration Points °C	UUC Reading °C	Standard Reading °C	Error in °C	Expanded Uncertainty in °C
-10	-10.0	-9.91	-0.09	±0.4
10	10.0	10.13	-0.13	
20	19.9	20.13	-0.23	
30	29.9	30.16	-0.26	
50	49.8	50.17	-0.37	

Humidity

Calibration Points %RH	UUC Reading %RH	Standard Reading %RH	Error in %RH	Expanded Uncertainty in %
20	20	20.1	-0.1	±1.0
40	40	40.3	-0.3	
60	60	60.5	-0.5	
80	80	80.5	-0.5	
90	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:

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

Calibrated By

Calibration Engineer



Approved By

Technical Manager
(Sunil Deshmukh)

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	Service Request No.	:- 2021/11/028N
	Certificate No.	:- SIC/2021/11/090N
	Date of Calibration	:- 18/11/2021
	Next Calibration Due On	:- 17/11/2022
	Calibration method No.	:- SIC/WI/TH-04
	Reference I.S.	:- Comparison method

Ambient Temp. :- 25°C
 Relative Humidity :- < 60%
 Location of calibration :- INLAB
 Condition of Item :- OK

2. Description of Item

Name :- Thermo Hygrometer	Range :- -10 to 50 °C/20 to 99 %RH
Make/Model :- Mextech TM1	Resolution :- 0.1°C / 1%RH
Sr No :- M303772	Specified Accuracy :- --
Type :- Digital	Location :- --
Id.No. :- --	

3. Detail of Equipment used for calibration

Name :- Dig. Thermohygrometer
 Make/I.D No. :- HTC-1/SI-ENV-02
 Certificate No. :- CCL/201214/HUM/01
 Certified By :- Calitron Calibration Laboratory
 Calibration Validity :- 14/12/2021

4. Calibration Results :-

Temperature

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

Humidity

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

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	Service Request No.	:- 2021/11/028N
	Certificate No.	:- SIC/2021/11/091N
	Date of Calibration	:- 18/11/2021
	Next Calibration Due On	:- 17/11/2022
	Calibration method No.	:- SIC/WI/TH-04
	Reference I.S.	:- Comparison method
Ambient Temp.	:- 25°C	
Relative Humidity	:- < 60%	
Location of calibration	:- IN LAB	
Condition of Item	:- OK	

2. Description of Item			
Name	:- Thermo Hygrometer	Range	:- -10 to 50 °C/20 to 99 %RH
Make/Model	:- Mextech TM1	Resolution	:- 0.1°C / 1%RH
Sr No	:- M303774	Specified Accuracy	:- --
Type	:- Digital	Location	:-
Id.No.	:- --		:-

3.Detail of Equipment used for calibration		
Name	:- Dig. Thermohygrometer	
Make/I.D No.	:- HTC-1/SI-ENV-02	
Certificate No.	:- CCL/201214/HUM/01	
Certified By	:- Calitron Calibration Laboratory	
Calibration Validity	:- 14/12/2021	

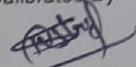
4.Calibration Results :-				
Temperature				
Calibration Points °C	UUC Reading °C	Standard Reading °C	Error in °C	Expanded Uncertainty in °C
-10	-10.0	-9.98	-0.02	±0.4
10	10.0	10.07	-0.07	
20	19.9	20.05	-0.15	
30	29.9	30.11	-0.21	
50	49.8	50.09	-0.29	

Humidity				
Calibration Points %RH	UUC Reading %RH	Standard Reading %RH	Error in %RH	Expanded Uncertainty in %
10	10	10.1	-0.1	±1.0
40	40	40.2	-0.2	
60	60	60.4	-0.4	
80	80	80.6	-0.6	
90	90	90.9	-0.9	


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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CALIBRATION CERTIFICATE

1. CUSTOMER :- Vishwaraj Hospital Loni

Ambient Temp. :- 25°C
Relative Humidity :- < 60%
Location of calibration :- IN LAB
Condition of Item :- OK

Page No. :- 1 OF 1
Date of Receipt :- 18/11/2021
Service Request No. :- 2021/11/028N
Certificate No. :- SIC/2021/11/092N
Date of Calibration :- 18/11/2021
Next Calibration Due On :- 17/11/2022
Calibration method No. :- SIC/WI/TH-04
Reference I.S. :- Comparison method

2. Description of Item

Name :- Thermo Hygrometer
Make/Model :- Mextech TM1
Sr No :- M303773
Type :- Digital
Id.No. :- --

Range :- -10 to 50 °C/20 to 99 %RH
Resolution :- 0.1°C / 1%RH
Specified Accuracy :- --
Location :- --

3. Detail of Equipment used for calibration

Name :- Dig. Thermohygrometer
Make/I.D No. :- HTC-1/SI-ENV-02
Certificate No. :- CCL/201214/HUM/01
Certified By :- Calitron Calibration Laboratory
Calibration Validity :- 14/12/2021

4. Calibration Results :-

Temperature

Calibration Points °C	UUC Reading °C	Standard Reading °C	Error in °C	Expanded Uncertainty in °C
-10	-10.0	-9.99	-0.01	±0.4
10	10.0	10.09	-0.09	
20	19.9	20.08	-0.18	
30	29.9	30.17	-0.27	
50	49.8	50.14	-0.34	

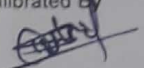
Humidity

Calibration Points %RH	UUC Reading %RH	Standard Reading %RH	Error in %RH	Expanded Uncertainty in %
20	20	20.1	-0.1	±1.0
40	40	40.3	-0.3	
60	60	60.5	-0.5	
80	80	80.7	-0.7	
90	90	90.9	-0.9	

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 measurements.

Calibrated By

Calibration Engineer



Approved By


Technical Manager
(Sunil Deshmukh)

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