'Anjali Niketan', Flat No. 3, 2nd Floor,
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CC-2911

MASTERTECH SYSTEMS
WHEN QUALITY MATTERS

CALIBRATION CERTIFICATE

Certificate No.	:- 2223/0211/08 -03	**ULR No.**	:- CC291123 000008020 F
Date of Calibration	:- 11-Feb-2023	**Calibration Due Date**	:- 10-Feb-2024
1.Customer Name & Address :		SRF No.	:- 2223/0211/08
Health Horizon Diagnostics		Date of Received	:- 11-Feb-2023
Varun Capital,Flat No.401 & 402,		Cal. Cert. Issue Date	:- 14-Feb-2023
CTS No.364,365/13,FP No.713,714/13,Shivaji Na		Condition of UUC	:- OK
Pune-411005		Location of calibration	:- In Lab
		Calibration Procedure No.	:- MTS/TH/WI-03
		Ref.IS Used	:- IS 2848

2.Enviromental Conditions: Temperature: 24.1 °C Relative Humidity: 56 % RH

3. Description of UUC

Name	:- Thermometer	Range	:- -30 to 300 Deg C
Make	:- Multi	Resolution	:- 0.1 Deg C
I.D No.	:- HHD/IN/RF/T-01	Model/Sr.No.	:- NA
Type	:- Digital	Location	:- —
Accuracy	:- NA		

4. Reference Standards used for calibration:

Name	:-	4- Wire RTD Sensor With Indicator	R Type Thermocouple With Indicator
Make / Model	:-	Tempsens, 4 Wire/Tempmet	Tempsens, R Type/Tempmet
I.D No./Sr. No.	:-	MTS/TIS-01/867,0042	MTS/TIS-02 / 1296,0042
Certificate No.	:-	NI/2206/016/001	FCS/2205/0603/001
Calibration Validity	:-	05-06-2023	02-06-2023
Certified By	:-	Nishitronics (CC-2294)	Fine Calibration (CC-3378)
Range/Uncertainty	:-	250 Deg C./(+/-) 0.09 Deg C.	1200 Deg C./(+/-) 1.9 Deg C.

5. Calibration Results

Sr.No.	Calibration Point Deg C	UUC Reading Deg C	Standard Reading Deg C	Deviation Deg C	Expanded Uncertinity ± Deg C
1	-30	-29.7	-30.15	0.45	0.28
2	100	99.5	100.20	-0.70	0.28
3	300	298.9	300.28	-1.38	0.85

NOTES:

1.The value measured of uuc & standard are mean of 5 reading.
2.The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by coverage factor K=2, which corresponds to a coverage probability of approximately 95.45% for normal distribution
3.This certificate refers only to the particular UUC submitted for calibration. UUC stands for Unit Under Calibration.
4.The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
5. This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from "Mastertech Systems" Pune.
6.The Instruments used for calibration are traceable to National/International standards and their calibrations are valid.
7.International Temp. Scale-1990 (ITS-90) is followed during calibration of above instrument.

Calibrated By

Mr. Parshuram Mundhekar
Calibration Engineer

MASTERTECH SYSTEMS PUNE

Approved By

Mr. Daulat Shete
Technical Manager

End of Certificate

Calibration services for
Electro-technical | Thermal | Mechanical | Mass | Volume Instruments

CC-2294

Nishitronics
Instrumentation
- Service Engineers
- Calibration Services in Industrial Process Control

We work for Customers Satisfaction

CALIBRATION CERTIFICATE

CUSTOMER	:-	**Mastertech Systems** Anjani Niketan, Flat No-3, 2nd Floor, Viveknagar, Akurdi, Pune -411035	Page No.	:-	1 of 1
			ULR No.	:-	ULR-CC229422000002460F
			Diciplin	:-	Thermal calibration
			Certificate No	:-	NI/2206/016/001
			Date of issue	:-	14/06/2022
			Date of receipt	:-	06/06/2022
Amb. Temp	:-	25 ± 2 °C	Date of calibration	:-	06/06/2022
Rh.	:-	45 to 75 %RH	Cal. Req. No.	:-	NI/2206/016/001
Location of calibration	:-	LAB	Next Due Date	:-	05/06/2023
Characteristic and Condition of items	:-	OK	Parameter	:-	Temperature
			Calibration method no.	:-	NI / CP / T / 01

Details of Items

Name	:-	4 -Wire RTD Sensor With Indicator	Sr.No.(Sensor)	:-	867
Make (Indicator)	:-	Tempsens	Range	:-	-30 to 300 °C
Make (Sensor)	:-	Tempsens	L.C.	:-	0.01 °C
Model (Indicator)	:-	Tempmet	Type	:-	PT 100
ID No. (Indicator)	:-	MTS/TIS-01			
Sr.No. (Indicator)	:-	0042			

Details of Equipment used for Calibration

Name	:-	SSPRT WITH INDICATOR
Calibrated by	:-	Nishitronics Instrumentation
Certificate No.	:-	NI/INH/PRT/200322/001
Validity	:-	19/03/2023

OBSERVATION

Cal. Point °C	Std. Reading °C	UUC Reading °C	Error In °C	Expanded Uncertainty
-30	-30.068	-29.98	0.088	± 0.06 °C
0	0.031	0.18	0.149	± 0.06 °C
100	99.869	100.06	0.191	± 0.09 °C
200	199.858	200.08	0.222	± 0.09 °C
250	249.741	250.03	0.289	± 0.09 °C

The reported measurement uncertainty is estimated at a level of confidence of approximately 95 % with a coverage factor k = 2.

Remarks :-

1) Result are related only to the item calibrated .
2) This certificate refers only to the particular items submitted for calibration .
3) This certificate shall not be reproduced except in full without our prior permission in writing.
4) The calibration results reported in this particular certificate are valid at the time of an under stated condition of measurement.
5) Standard used for calibration were traceable to National / International standard.
6) Readings given above are as on received condition of an instrument.
7) Immersion Depth of UUC was 160 mm in CTB9100 Oil Bath.
8) Length of Sensor = 400 mm.
9) Diameter of Sensor = 6.5 mm.

Calibrated by

(P.B.Desai)
(Technical Assistant)

Nishitronics Instrumentation PUNE

Authorized Signatory

(V.B.Hingmire) / (S.B.Hingmire)
(Technical Manager)