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MASTERTECH SYSTEMS WHEN QUALITY MATTERS

CALIBRATION CERTIFICAT		
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Certificate No. :- 2223/0211/08 -02 ULR No. :- CC291123 000008019 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.Environmental Conditions: Temperature: 23.3 °C Relative Humidity: 57 % 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-02 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

0. 00					
Sr.No.	Calibration Point	UUC Reading	Standard Reading	Deviation	Expanded Uncertinity
	Deg C	Deg C	Deg C	Deg C	± Deg C
1	-30	-30.6	-30.28	-0.32	0.28
2	100	101.1	100.22	0.88	0.28
3	300	301.3	300.20	1.10	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



Approved By

Mr. Daulat Shete Technical Manager

End of Certificate Calibration services for





Nishitronics Instrumentation

- ▶ Service Engineers
- ➤ Calibration Services in Industrial Process Control We work for Customers Satisfaction

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		CA	LIBRATI	ON CERTIFICATE	;		
CUSTOMER :	-	Mastertech Systems		Page No.	:-	1 of 1	
		Anjani Niketan, Flat N	Io-3,	ULR No.	:-	ULR-CC22942	2000002460F
		2nd Floor, Viveknagar	, Akurdi,	Diciplin	:-	Thermal calibra	ation
		Pune -411035		Certificate No	:-	NI/2206/016/00	01
				Date of issue	:-	14/06/2022	
		_		Date of receipt	:-	06/06/2022	
Amb. Temp	:-	25 <u>+</u> 2 ⁰ C		Date of calibration	:-	06/06/2022	
Rh.	:-	45 to 75 %RH		Cal. Req. No.	:-	NI/2206/016/00	01
Location of calibration	n :-	LAB		Next Due Date	:-	05/06/2023	
Characteristic and	:-	OK		Parameter	:- ,	Temperature	
Condition of items				Calibration method n	ю. :-	NI/CP/T/0	1
Details of Items							
Name	:-	4 -Wire RTD Sensor Wit	h Indicator	Sr.No.(Sensor)	:-	867	
Make (Indicator)	:-	Tempsens		Range	:-	-30 to 300 °C	
Make (Sensor)	:-	Tempsens		L.C.	:-	0.01 ⁰ C	
Model (Indicator)	:-	Tempmet		Туре	:-	PT 100	
ID No. (Indicator)	:-	MTS/TIS-01	*				
Sr.No. (Indicator)	:-	0042					
Details of Equipmen	ıt us	ed for Calibration					
Name	;-	SSPRT WITH INDICAT	OR				
Calibrated by	:-	Nishitronics Instrument	tation				
Certificate No.	:-	NI/INH/PRT/200322/00)1				
Validity	:-	19/03/2023					
			OBSI	ERVATION			
Cal. Point		Std. Reading	UU	IC Reading		Error In	Expanded
"C		"C		°C		°C	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
050		040 744					_ 5.55 0

250.03

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.
- This certificate refers only to the particular items submitted for calibration .

249.741

- 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.
- Standard used for calibration were traceable to National / International standard.
- Readings given above are as on received condition of an instrument.
- Immersion Depth of UUC was 160 mm in CTB9100 Oil Bath.
- 8) Length of Sensor = 400 mm.
- Diameter of Sensor = 6.5 mm.

Calibrated by

-Stoesal (P.B.Desai)

Issue No: 03

(Technical Assistant) Form No.: NI/F/7.8/T/01

Form Rev. No. : 0

Authorized Signatory

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

± 0.09 ° C

(Technical Manager) Effective Form Date :20/11/2019

Issue Date :20/11/2019