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**MASTERTECH
SYSTEMS**
WHEN QUALITY MATTERS

CALIBRATION CERTIFICATE

Certificate No. :- 2223/0209/11 -01 ULR No. :- CC291123 000008016 F

Date of Calibration :- 9-Feb-2023 Calibration Due Date :- 8-Feb-2024

1. Customer Name & Address : SRF No. :- 2223/0209/11
Health Horizon Diagnostics Date of Received :- 9-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 :- On Site
Calibration Procedure No. :- MTS/MECH/WI-23

2. Environmental Conditions: Temperature: 30.5 °C Relative Humidity: 62 % RH

3. Description of UUC

Name :- Centrifuge Range :- 0 to 6000 RPM
Make :- Remi Resolution :- 1 RPM
I.D No. :- HDD/IN/CF/01 Model/Sr.No. :- R-8C Plus /ZHKN-42199
Type :- Digital Location :- Prosesing area
Accuracy :- NA

4. Reference Standards used for calibration:

Name :- Tachometer
Make / Model :- Amprobe/TACH-10
I.D No./Sr. No. :- MTS/TACH-01 / 18010152
Certificate No. :- CH/22/1010B-01
Calibration Validity :- 09-10-2023
Certified By :- Calibration House (CC-2304)
Range/Uncertainty :- As Per Certificate

5. Calibration Results

Sr.No.	Calibration Point	UUC Reading	Standard Reading	Deviation	Expanded Uncertainty
	RPM	RPM	RPM	RPM	± RPM
1	10	10	9.8	0.2	4.86
2	500	500	499.5	0.5	4.86
3	1000	1000	999.1	0.9	4.86
4	3000	3000	2998.6	1.4	33.36
5	6000	6000	5998.2	1.8	33.36

NOTES:

- The value measured of uuc & standard are mean of 5 reading.
- 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
- This certificate refers only to the particular UUC 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.
- 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.
- The Instruments used for calibration are traceable to National/International standards and their calibrations are valid.

Calibrated By

Mr. Dajee Yele

Calibration Engineer



Approved By

Mr. Daulat Shete

Technical Manager

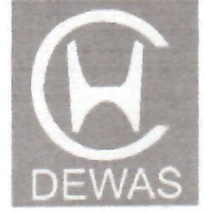
End of Certificate
Calibration services for



CALIBRATION HOUSE

A Calibration Laboratory

Calibration Certificate



CC - 2304

Certificate No.	CH/22/1010B-01	Date of Issue	10/10/2022	Pages	1 of 1
Calibration Date	10/10/2022	Next Recommended Due Date	09/10/2023	ULR No.	CC230422000011954F
Customer's Name & Address:		M/s Mastertech Systems Anjali Niketan, Flat No. 3, 2 nd Floor, Viveknagar, Akurdi, Pune - 411 035			
Customer Reference No.:	30	Dated	08.10.2022	Receipt Date	10.10.2022
Location of Calibration	At Calibration Laboratory			Work Order No.	1010B

Description of UUC		DIGITAL TACHOMETER (Non-Contact Type)			
Make	Model	Sr.No.	Id.No.	Range	Least-Count
Amprobe	TACH-10	18010152	MTS/TACH-01	5 - 99999 RPM	0.1/1 RPM
Condition of UUC when receipt		Visually Ok			
Calibration to be done		with adjustment / without adjustment			

Calibration Method	Our Calibration Procedure No. CH/CP/73. Based on Comparison Method.				
Environmental Conditions	Temperature:- 25 ± 4°C, Humidity:- 30-75% Rh				
Master Equipment's used for Calibration are traceable to National / International Standards through NABL Accredited Laboratory.					
SN.	Description	Id. No.	Certificate No.	Calibrated By	Validity
01	Digital Tachometer	CH/DTM/01	22.30.001	NABL CC-2927	08.03.2023

Uncertainty of Measurement (is Expanded Uncertainty at 95.45 % Confidence Level with coverage factor $k = 2$):

Calibration Results for Mechanical: Speed (all readings are in RPM & average of five observations)

Sr. No.	Observed Average Value on Standard	Observed Average Value on UUC	UUC Error	Expanded Uncertainty (\pm)
01	10.1	10.0	-0.1	1.1
02	1000.2	999.9	-0.3	2.0
03	4990.8	4999.3	-0.5	6.3
04	3000.3	3000.1	-2.0	30.1
05	8999.8	8999.5	-3.0	58.0

www.calibrationhouse.org

Calibrated By : Mr. Harshal Jain



Authorised By :
Mr. Nayan Jain - Technical Manager

x-x-x-x-x- End of Certificate -x-x-x-x-x

CH/CC/RPM - Rev No. 04/01.09.2022

Note :- * This certificate refers only to the item calibrated. * A Calibration Sticker has been also affixed on UUC.
* Refer to Certificate before use. * UUC:- Unit Under Calibration. Reading has been rounded off, where ever applicable.
* Next recommended due date is decided by customer & mentioned as per customer's requisition

