



GLOBAL TECHNICAL SERVICES

Sec. No.25, Plot No.49/3, L.I.G. Colony, Pradhikaran, Nigdi, Pune - 411044

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CC-4048

CALIBRATION CERTIFICATE

1.CUSTOMER :-		Page No.	:- 1 of 1
HOFFEN DIAGNOSTICS		SRF No	:- GTS/241017/05
BAVDHAN, PUNE		Certificate No.	:- GTS/241017/05-001
Ambient Temp. (°C)		Date of Received	:- 17.10.2024
Relative Humidity (%RH)		Date of Calibration	:- 17.10.2024
Location of calibration		Next Calibration Due On	:- 16.10.2025
Condition of Item		Issue Date	:- 21.10.2024
		Calibration method No.	:- MECH-WI-07
		ULR No	:- CC404824000003278F

2. Description of Item			
Name	:- Centrifuge	Range	:- 0 to 3500 RPM
Id No	:- HOF - 04	Least Count	:- --
Make	:- REMI R303	Location	:- LAB
Type	:- Knob	Dept.	:- Pathology
		Sr No	:- ZHCN 08921


3.Details of Equipment used for calibration				
Name	Certificate No.	Certified By	ID No.	Calibration Validity
Digital Tachometer	NI2024/05/0343	Nishitronics Instrumentation	GTS/TM/01	19.05.2025

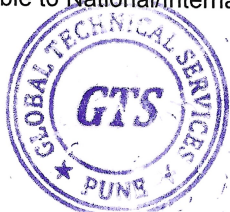
* Discipline-Mechanical

4.Calibration Results :-			
Sr No	Standard Reading RPM	Knob No on UUC	Expanded Uncertainty in ± %
1	855.3	1	4.20
2	1453	2	2.31
3	2415	3	2.31
4	2795	4	2.31
5	3442	5	2.31

Note:

- 1)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 95.45% for normal distribution
- 2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
- 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 4) Calibration point were selected as per customer specifications.
- 5) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Global Technical Services, Pune".
- 6)The Instruments used for calibration are traceable to National/International standards and their Calibrations are valid.

Calibrated By

 Calibration Engineer
 Rohit L



Approved By

 Technical Manager
 Swapnil Bhagwat

RF-55/01

End of Certificate





CC-2294



Nishitronics Instrumentation

► Service Engineers
► Calibration Services in Industrial Process Control
We work for Customers Satisfaction

Page 1 of 2

CALIBRATION CERTIFICATE

Customer : Global Technical Services	ULR No. : CC229424000002879F
Sec No -25, Plot No- 49/3 LIG Colony Pradhikaran Nigdi Pune, Maharashtra Pin Code : 411044	Discipline : Mechanical
Env. Conditions Temp.23±1.5°C, 50 ±10% RH	Certificate No. : NI2024/05/0343
Location of Calibration : At Lab	Date of Issue : 21/05/2024
Characteristic and Condition of Item : SATISFACTORY	Date of Receipt : 19/05/2024
	Date of Calibration : 20/05/2024
	Cal. Req.No. : 24/05/78/3
	Next Due Date : 19/05/2025
	Parameter : rpm
	Calibration Method No. : NI/CP/ RPM/01

Details of Items :

Name : Digital Tachometer	Range : Non Cont:2.5to99999 rpm&Cont:2.5 to19999
ID No. : GTS/TM/01	L.C. : 0.1 rpm & 1 rpm
Sr.No. : N785275	Accuracy : N/S
Make : Metrix	Location : --
Model : TM-4005	
Type : Non-contact & Contact	

Master Instruments Detail

Nomenclature	Serial No.	Id.No.	Valid Upto	Calibrated At./ CC NO.
DIGITAL TACHOMETER	-	NI/DTM/03	22/08/2024	INSTOTECH(CC-2272)

Observation

Calibration Results (Contact Type)

Standard Readings	UOM	Reading Observer by UUC	Error	Expanded Uncertainty± rpm (k =2)
10.2	rpm	10.1	-0.1	2.0
100.3	rpm	99.2	-1.1	2.0
500.4	rpm	498.8	-1.6	2.0
999.9	rpm	999.9	0.0	2.0
5002.0	rpm	4998	-4.0	7.0
7998.0	rpm	7996	-2.0	7.0
9997.0	rpm	9998	1.0	7.0

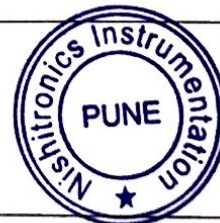
Calibration Results (Non Contact Type)

Standard Readings	UOM	Reading Observer by UUC	Error	Expanded Uncertainty ± rpm(k=2)
10.1	rpm	10.1	0.0	2.1
100.6	rpm	100.9	0.3	2.1
500.6	rpm	500.8	0.2	2.1
999.9	rpm	999.7	-0.2	2.1
5001	rpm	5002	1	23

Calibrated By

T.T. Dhumal

Technical Assistant



Reviewed & Authorized By

V. Hingmire
Technical Manager

Certificate No. : NI2024/05/0343

ULR No. : CC22942400002879F

50003	rpm	49998	-5	23
98998	rpm	98992	-6	23

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) Above calibration done is meant for scientific & industrial purpose only.

Calibrated By


 T.T. Dhumal

Technical Assistant



Reviewed & Authorized By



 V. Hingmire
 Technical Manager

---- END OF CERTIFICATE ----