

- PROCESS ON
- RUN
- DOOR LOCKED



LAB LINE

RPM TIME



START



STOP

UP



DOWN



RCF
ON PUSH

TIME

CAUTION - DANGER OF HIGH SPEED
UNDER NORMAL OPERATION

RPM REGULATOR



POWER



ON

CENTRIFUGE

MANUFACTURED BY LABLINE EQUIPMENTS PVT LTD. INDIA



GLOBAL TECHNICAL SERVICES

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

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CC-2957

CALIBRATION CERTIFICATE

1. CUSTOMER :-
AROGYAM PATHOLOGY CENTRE
TONKA, CARANZALEM, GOA

Page No. :- 1 of 1
Certificate No. :- GTS/211013/01-009
Date of Received :- 13.10.2021
Date of Calibration :- 13.10.2021
Next Calibration Due On :- 12.10.2022
Issue Date :- 20.10.2021
Calibration method No. :- MECH-WI-07
ULR No :- CC295721000007152F

Ambient Temp. (°C) :- 28.4
Relative Humidity (%RH) :- 49
Location of calibration :- On Site
Condition of Item :- Ok

2. Description of Item

Name :- Centrifuge Range :- 100 to 5000 RPM
Id No :- APC/CENT/01 Least Count :- 100 RPM
Make :- Labline Location :- LAB
Type :- Digital
Sr No :- -
Dept Pathology

3. Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID No.	Calibration Validity
Digital Tachometer	NI/2106/002/003	Nishitronics Instrumentation	GTS/TM/01	31.05.2022

*Mechanical Calibration

4. Calibration Results :-

Calibration Points RPM	Standard Reading RPM	UUC Reading RPM	Error in RPM	Expanded Uncertainty in ± %
500	500.1	500	-0.1	4.20
1000	1002	1000	-2	1.20
2000	2003	2000	-3	1.20
3000	3004	3000	-4	1.20
5000	5005	5000	-5	1.20

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".

Calibrated By

Rohit

Calibration Engineer

Rohit L



Approved By

gmb

Technical Manager

Swapnil Bhagwat

RF-55/01

End of Certificate

Email : globaltechnical007@gmail.com



**Nishitronics
Instrumentation**

Service Engineers
Calibration Services in India
Work for Customer's Satisfaction

GC-2294

CALIBRATION CERTIFICATE

CUSTOMER	Global Technical Services Sec. No.25, Plot No-19/3 11G Colony Pradhikaran Nipah Pune-411044	Page No ULR No Discipline Certificate No Date of issue Date of receipt Date of calibration Cal. Req No Next Due Date Parameter Calibration method no	1 of 1 ULR GC2294210000/2049f Mechanical Calibration NI/2106/002/003 02/06/2021 01/06/2021 01/06/2021 NI/2106/002/003 31/05/2022 RPM NI / CP / M / 05
Amb Temp	25 ± 2 °C		
Rh	45 to 75%		
Location of calibration	LAB		
Characteristic and Condition of items	OK		

Details of Items

Name	Digital Tachometer	Model	FMI-4005
Location	--	Range	2.5 to 99999 rpm (non contact) 2.5 to 19999 rpm (Contact)
Make	Metrox		
ID No	GTS/TM/01	L C	0.1 rpm & 1 rpm
Sr No	N785275	Accuracy	Not specified

Details of Equipment used for Calibration

Name	DIG TACHOMETER
Calibrated by	INSTOTECH
Certificate No	2020/0133
Validity	01/06/2021

OBSERVATION

NON-Contact Type				
Cal Point rpm	Std Reading rpm	UUC Reading rpm	Error rpm	Expanded Uncertainty
100	100.2	100.9	0.700	± 3.0 rpm
5000	5002	5001	-1.000	± 5.0 rpm
10000	10117	10112	-5.000	± 10.0 rpm
20000	20552	20545	-7.000	± 15.0 rpm
40000	42346	42344	-2.000	± 20.0 rpm
90000	90311	90323	12.000	± 25.0 rpm
Contact Type				
Cal Point rpm	Std Reading rpm	UUC Reading rpm	Error rpm	Expanded Uncertainty
100	101.0	100.4	-0.600	± 3.0 rpm
1000	1001	1000	-1.000	± 5.0 rpm
2500	2502	2499	-3.000	± 5.0 rpm
3000	3003	3000	-3.000	± 5.0 rpm
5000	4999	4996	-3.000	± 7.0 rpm

The reported measurement uncertainty is estimated at a level of confidence of approximately 95 %

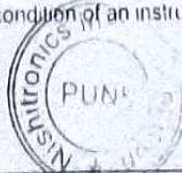
Remarks :-

- 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

Calibrated by

(Signature)

(V D Mulik)
(Technical Assistant)



Authorized Signatory

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

Form No NI/F/7.8/ET/01

Form Rev-No 0

Effective Form Date 20/11/2019

Issue No 03

Issue Date 20/11/2019

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