



AUTOCAL SYSTEMS

Calibration of Biomedical, QA of Radiology, Thermal, Mechanical, Electrotechnical, Mass, Volume, Weights, Mapping and Validation Testing Services of Laminar Air Flow, Biosafety Cabinet, OT Validation, AHU and Calibration Facility in Lab / Onsite



CALIBRATION CERTIFICATE

1. CUSTOMER
DR. PANJABRAO DESHMUKH HOSPITAL,
 MORSHI ROAD, SHIVAJI NAGAR,
 AMRAVATI MAHARASHTRA -444803
 Ambient Temp > (25 ± 4) °C
 RH > < 70%
 Location of calibration > ON SITE
 Condition of item > OK

Page No. > 1 of 1
 Date of Receipt > 20-Aug-22
 Service Request No. > ACS/CAL/22-23/295
 Certificate No. > ACS/CAL/2295/CM-106/229906
 Date of Calibration > 20-Aug-22
 Next Calibration Due On > 19-Aug-23
 Calibration method No. > ACS/CM-106
 ULR No. > CC2614220000000197F

2. Description of Item
 Name > TEMPERATURE INDICATOR
 Sr No > ICTCLAB/REF/01
 Make > LG
 Model > NA
 Type > DIGITAL
 Asset no > NA

Range > 2 TO 8 °C
 Resolution > 1 °C
 Specified Accuracy > N/A
 Location > REFRIGERATOR
 Department > ICTC LAB

3. Detail of Equipment used for calibration
 Make/ID No. > Temp. indi with RTD sensor
 Certificate No. > Tempsens/ACS-EQP-05
 Certified By > NISHITRONICS
 Calibration Validity > 12-Oct-22

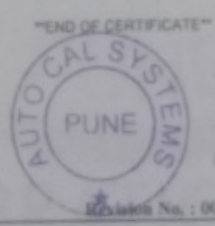
4. IS STANDARD > DKD-R-5-1

5. Calibration Results

Calibration Points °C	Converted Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in ± °C
2	2	2.3	0.3	0.37
4	4	4.3	0.3	0.37
6	6	6.2	0.2	0.37
7	7	7.3	0.3	0.37
8	8	8.2	0.2	0.37

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 coverage probability of approximately 95% 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 points were selected as per customer specifications and Calibration report traceable to NPL or International Standard.
 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 "Autocal Systems Pune"

Calibrated By: *Asagde*
 Calibration Engineer
 (Mr. Ankush Bagade)

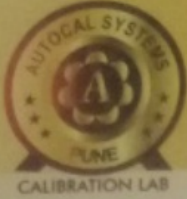


Approved By: *Asagde*
 Technical Manager
 (Mr. Sandip Bagade)

Format No. : ACS-RFT-29

Revision No. : 00

Issue Date : 15.06.2019



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CALIBRATION CERTIFICATE

1. CUSTOMER		Page No.	- 1 of 1
DR.PANJABRAO DESHMUKH HOSPITAL, MORSHI ROAD, SHIVAJI NAGAR, AMRAVATI, MAHARASHTRA -444603		Date of Receipt	- 20-Aug-22
Ambient Temp.	- 25 ± 4°C	Srf No	- ACS/CAL/22-23/295
RH	- <70 % RH	Certificate No.	- ACS/CAL/0295/CM-27/220001
Location of calibration	- In Lab	Date of Calibration	- 20-Aug-22
Condition of Item	- OK	Next Calibration Due On	- 19-Aug-23
		Calibration method No.	- ACS/CM-27
		ULR No	- CC2614220000005192F

2. Description of Item			
Name	- RPM INDICATOR(CENTRIFUGE)	Range	- 0 TO 3520 rpm
ID. No.	- ICTCLAB/CEF/01	Resolution	- 10 rpm
Make	- CHEMEXON	Specified Accuracy	- N.A
Model	- NA	Location	- CENTRIFUGE
Type	- DIGITAL	Department	- ICTC LAB
Asset No	- NA		

3. Detail of Equipment used for calibration	
Name	- Digital Tachometer
Make/ID No.	- Kusum-Meco/ACS-EQP-52
Certificate No.	- OM/51/210019
Certified By	- OM Engineers
Calibration Validity	- 27-10-2022

4. Calibration Results				
Calibration Points	Standard Reading	UUC Reading	Error in	Expanded
	RPM	RPM	RPM	Uncertainty in ± RPM
800	800	798	-2	7.51
1000	1000	997	-3	
2000	2000	2001	1	
3000	3000	3002	2	
3500	3500	3504	4	

Note:

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Calibrated By: *ABagde*
 Calibration Engineer
 (Mr. Ankush Bagde)



Approved By: *ASandip*
 Technical Manager
 (Mr. Sandip Bagade)

Format No. : ACS-RFT-49

Revision No. : 00

Issue Date : 01.08.2013

83/526, Near D. Y. Patil Engg. College, Sant Tukaram Nagar, Pimpri, Pune - 411018.

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CALIBRATION LAB

NABL ACCREDITED CALIBRATION LAB WITH ISO/IEC 17025:2017

CALIBRATION CERTIFICATE

1. CUSTOMER :- DR.PANJABRAO DESHMUKH HOSPITAL, MORSHI ROAD ,SHIVAJI NAGAR, AMRAVATI,MAHARASHTRA -444603	Page No. :- 1 of 1 Issue Date :- 26-Apr-21 Service :- Request No. :-
Ambient Temp. :- (25 ± 4)°C RH :- < 70% Location of calibration :- IN LAB Condition of Item :- OK	Certificate No. :- TM-01 Date of Calibration :- 20-Aug-22 Next Calibration Due On :- 19-Aug-23 Calibration method No. :- ACS/CM-108 ULR No :-

2. Description of Item			
Name :- TIMER	Range :- 0 TO 24	Hrs	
ID. No. :- ICTCLAB/TM/01	Resolution :- 0.01	Sec	
Make :- LOUD BEEPER	Specified Accuracy :- 0.01	Sec	
Type :- DIGITAL	Location :- ICTC LAB		
Sr. No. :- N.A	MODEL :- DT-109		

3.Detail of Equipment used for calibration	
Name :- DIGITAL TIMER	
Make/I.D No. :- AUTONICS /1A027E /ACS-EQP-08	
Certificate No. :- NI /2208/057/001	
Certified By :- NISHITRONICS	
Calibration Validity :- 19-Aug-23	

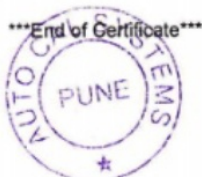
4.Calibration Results :-					
Calibration Points sec	Standard Reading sec	Converted Std.Readings in Hour:sec:sec	UUC Reading Hour:sec:sec	Error in Hour:sec:sec	Expanded Uncertainty in ± Sec
3600	3600.45	1:00:45	1:00:52	0:00:07	0.85
21600	21600.40	6:00:40	6:00:56	0:00:16	0.85
43200	43200.43	12:00:43	12:00:52	0:00:09	0.85
86400	86400.45	24:00:45	0:00:50	0:00:05	0.85

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- 6) No decision rule applicable.

Calibrated By:

Calibration Engineers
(Mr.Sonu Bante)



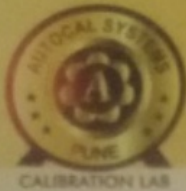
Approved By:

Technical Manager
(Mr.Ankush Bagde)

83/526, Near D. Y. Patil Engg. College, Sant Tukaram Nagar, Pimpri, Pune - 411018.

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CALIBRATION CERTIFICATE

1. CUSTOMER	DR. PANJABRAO DESHMUKH HOSPITAL, MORSHI ROAD, SHIVAJI NAGAR, AMRAVATI, MAHARASHTRA - 444603	Page No.	- 1 of 1
Ambient Temp.	- (25 ± 4)°C	Date of Receipt	- 20-Aug-22
RH	- < 70%	Service Request No.	- ACS/CAL/22-23/295
Location of calibration	- ON SITE	Certificate No.	- ACS/CAL/22/95/CAL-108/220010
Condition of Item	- OK	Date of Calibration	- 20-Aug-22
		Next Calibration Due On	- 19-Aug-23
		Calibration method No.	- ACS/CM-109
		U/R No.	- CC2814220000000201F

2. Description of Item

Name	- TEMPERATURE INDICATOR	Range	- 2 TO 8 °C
Sr No	- CHMR30010P00314	Resolution	- 1 °C
Make	- BLUE STAR	Specified Accuracy	- N/A
Model	- CHMK 300	Location	- REFRIGERATOR
Type	- DIGITAL	Department	- ICTC LAB
Asset no	- NA		

3. Detail of Equipment used for calibration

Make - Temp. Indl with RTD sensor
 Make/ID No. - Tempsens/ACS-EQP-05
 Certificate No. - NI/2110/031/001
 Certified By - NISHITRONICS
 Calibration Validity - 12-Oct-22

4. IS STANDARD - DKD-R-5-1

5. Calibration Results

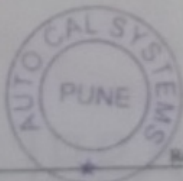
Calibration Points °C	Converted Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in ± °C
2	2	1.8	-0.2	0.37
4	4	3.9	-0.1	0.37
6	6	6.1	0.1	0.37
7	7	7.2	0.2	0.37
8	8	7.9	-0.2	0.37

Note:

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"END OF CERTIFICATE"

Calibrated By: *Asagde*
 Calibration Engineer
 (Mr. Ankush Bagade)



Approved By: *Asagde*
 Technical Manager
 (Mr. Sandip Bagade)

Formal No. : ACS-RFT-29 Revision No. : 00 Issue Date : 15.06.2019