

# FLOW CA



NABL Accredited Calibration Lab as per ISO/IEC 17025:2017

#71, Koorgalli Industrial Area, Mysuru-570 018. Mob: 98865 02708, Email: vinay1flowcal@gmail.com, www.flowcal.in

FCL/FM/CL/06

CERTIFICATE OF CALIBRATION						
SRF No.	F0123	Certificate No.	FCL/24/F0123-01 .	ULR No.	CC310324000000685F	(4)
Date of SRF	23-08-2024	Date of Cal.	23-08-2024	Next Cal Due	22-08-2025	
Issue Date	24-08-2024	Cal Procedure No.	FCL-SOP-THE-01	Reference Std.	DKD-R 5-1	
No of Pages	01	Page No.	01 of 01	Status on Receipt	Satisfactory	
DISCIPLINE-GF	ROUP : Thermal-T	emperature	2	Cal Done At	Onsite	

#### Customer Name & Full Address:

M/s. ICTC G.G.H Afzalpur,

Main Road Afzalpur, Dist Kalburgi,

Karnataka-585301.

	DUC DETAILS	<u>S</u>	
Nomenclature	Digital Thermometer	Model / Type	NA
Make	Multi Thermometer	Range	-50 to 300 °C
Serial. No	NA	Resolution	0.1 °C
ID No	ICTC/GGH/Afzalpur/Thermometer-01	Accuracy	NA
Location	ICTC Lab		

## STANDARDS USED FOR CALIBRATION AND TRACEABILITY DETAILS

Nomenclature	Make/Model	SI. No / ID No.	Traceable to	Validity
4 Wire RTD Sensor With DMM	Tempsens & Yokogawa / PT - 100X1, Simplex & CA71	2113016632 & 2267021/FCL-TH-02 & FCL- TH-02A	TMS/24/64-01	15-03-2025

Temperature Bath Calibrator used as Source

**Environmental Condition:** 

Calibration Regulter

Temperature: 25.4

°C

**Humidity:** 

52 %RH

Janbradon	results.				All Readings are in °C
SI No	Set Temp	STD Readings	DUC Readings	Observed Deviation	Computed Measurement Uncertainty (±)
1	-30	-30.156	-30.3	-0.144	0.8
2	-10	-10.104	-10.2	-0.096	- 0.8
3	0	0.023	0.1	0.077	0.8
4	50	50.451	50.2	-0.251	0.8
5	100	100.215	100.4	0.185	0.8
6	200	200.524	200.3	-0.224	0.8
7	300	300.845	300.5	-0.345	0.8

#### Remarks:

- 1. The Measurement Uncertainty is estimated at a confidence level of 95.45% with a coverage factor k=2.
- 2. This Calibration Certificate refers only to the Particular item submitted for calibration. Calibration points given as per customer request.
- 3.NABL Accerdited Calibration Lab as per ISO/IEC 17025:2017 with vide Certificate No:CC-3103
- 4. The Usage of NABL symbol is as per NABL guidelines given in NABL 133. The Calibration Certificate relates only to the above DUC.
- 5. Calibration Certificate Shall not be reproduced except in full, without written approval of the Flowcal.

6. Standard maintained are traceable to National / International Standard through accredited laboratories.

Calibrated by

Rajashekar

(Calibration Engineer)

\*\*\*\*\*End of Calibration Certificate\*\*\*\*\*

Authorized by

Vinay Kumar (CEO)



## FLOW CAL





NABL Accredited Calibration Lab as per ISO/IEC 17025:2017

#71, Koorgalli Industrial Area, Mysuru-570 018. Mob: 98865 02708, Email: vinay1flowcal@gmail.com, www.flowcan.ind

FCL/FM/CL/06

SRF No.	F0123	Certificate No.	FCL/24/F0123-02	ULR No.	CC310324000000686F
Date of SRF	23-08-2024	Date of Cal.	23-08-2024	Next Cal Due	22-08-2025
Issue Date	24-08-2024	Cal Procedure No.	FCL-SOP-MECH-02	Reference Std.	SANAS-TR 45-01
No of Pages	01	Page No.	01 of 01	Status on Receipt	Satisfactory
CIPLINE-GROU	P : MECHANICAL	- Acceleration and Speed	*	Cal Done At	Onsite

#### Customer Name & Full Address:

M/s.

ICTC G.G.H Afzalpur,

Main Road Afzalpur, Dist Kalburgi,

Karnataka-585301.

	DEVICE UNDER CALIBRATION	(DUC) DETAILS	
Nomenclature	Digital Centrifuge	Model	R 8C
Make	Remi	Range	0-6000 RPM
Serial. No	LKL0-9602	Resolution	10 RPM
ID No	ICTC/GGH/Afzalpur/Centrifuge-01	Accuracy	± 0.05%
Location	ICTC Lab		

### STANDARDS USED FOR CALIBRATION AND TRACEABILITY DETAILS

Nomenclature	Make/Model	SI. No / ID No.	Traceable to	Validity
Digital Tachometer	Lutron & DT2236	Q652919	EQN/CRF/24080065	07-08-2025

**Environmental Condition:** 

Temperature: 20.4

°C

**Humidity:** 

42

%RH

MODE :NON CONTACT

Calibration Results:

All Readings are in RPM

SI.NO	DUC Set	Standard Readings	Observed Deviation	Computed Measurement Uncertainty (±) in %
1	500	499.5	0.5	2.50
2	1000	999.3	0.7	2.50
3	2000	1997	3	2.50
4	3000	2995	5	2.50
5	4000	.3991	9	2.50
6	6000	5986	14	2.50

#### Remarks:

1. The Measurement Uncertainty is estimated at a confidence level of 95.45% with a coverage factor k=2.

Calibrated by

Rajashekar **Calibration Engineer** 



\*\*\*\*\*End of Calibration Certificate\*\*\*\*\*

Authorized by

Vinay Kumar CEO

#### TRUE ALUE CALIBRATION SERVICES PVT LTD.,



#### CERTIFICATE OF CALIBRATION

TVCSPL/F/7.8/01									Page 1 of 1
ULR No.	CC39	3524000004198F							
Certificate No.	TVC	SPL 24/08/0989-01				Date of Issue	e	;	24-08-2024
Date of Calibration	23-08	-2024				Recom. Due	Date	:	22-08-2025
Customer Details	840				10	SRF No.		;	989
M/s.ICTC G.G.H Afza	lpur,					Calibrated a	t	:	LAB
Main Road Afzalpur,	Dist Kall	ourgi,				Date of Rece	eipt	:	23-08-2024
Karnataka-585301.						Cond. On Re	eceipt	:	Satisfactory
Details of Test Instrum	nent:								4
Description	:	Digital Timer				Model No.		:	DT 109
Range	:	0 to 60 Min				Serial No		:	-
Least Count	•	0.01sec				Identificatio	n No.	:	ICTC/GGH/Afzalpur/Timer-01
Make		Aceteq				Accuracy		:	-
Working range:						Location		:	ICTC LAB
Details of Standard Us	ed			:				-	7
		Name		Certificate	No.		Valid upto		calibrated at
	Digit	al Time Calibrator		HT/CC/240201	-18/001		31-01-2025		CC-2151
Work Instruction			:	WI-E-01					
Environmental Details			:	Temperature:	25±	4 °C	Relative	e Humidity:	45-75 % RH

ELECTROTECHNICAL CALIBRATION

(Time & Frequency)

Calibration Results

		Results of Calibr	ration		
Sl. No.	Standard Reading (hr:min:s:ms)	UUC Reading (hr:min:s:ms)	Error (sec)	Measurement Uncertaint ± (sec)	
01	00:01:00.01	00:01:00.00	-0.01	0.08	
02	00:03:00.02	00:03:00.00	-0.02	0.28	
03	00:05:00.02	00:05:00.00	-0.02	0.17	
04	00:10:00.04	00:10:00.00	-0.04	0.13	
05	00:15:00.04	00:15:00.00	-0.04	0.60	
06	00:20:00.02	00:20:00.00	-0.02	0.61	
07	00:30:00.03	00:30:00.00	-0.03	0.63	
08	01:00:00.03	01:00:00.00	-0.03	0.74	

#### Remarks:-

- 1. The above DUC was Calibrated at On-site.
- UUC is defined as Unit Under Calibration
- 3. Reading given was the average of 3 Measurements
- 4. The measurement confidence level is 95.45%
- The Calibration Certificate shall not be reproduced except in full without written approval of TVCSPL

  The above Expanded Uncertanity includes Repeatability, Resolution & Uncertanity of Measurement
- Calibration of the UUC are traceable to SI units
- 8. The above results relate only to the item calibrated

Calibrated by M.Arun Kumar (Calibration Engineer) \* End of Certificate

Authorised by: Mr. Anand Manoharan (QM & TM)

... redefining the true value

92, S.R.B Nagar Main Road, Chennai - 600 099. Tamil Nadu, India.

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Email: calibrationservices@live.com www.truevaluecalibration.com CIN No :U29268TN2015PTC103428

