

## Vaidyanatheshwara Instruments CERTIFICATE OF CALIBRATION





No. 301/A, 9th Main Road, 3rd Cross, Rajiv Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.

Contact: 080-23377266, Mob: 9986586789 / 9448080177 / 9964308118 | Email: info@viplgroup.com Web: www.viplgroup.com

NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

Sheet: 1 of 1
SRF. No.   1518   Received Condition   Satisfactory
Nomenclature
Nomenclature
Range   Resolution   -50 °C to 110 °C   0.1 °C   1d. No.   LAB/T-01
Range / Resolution
Calibrated on   17-10-2020   Calibration due on   16-10-2021
Temperature/Humidity   Consiste   Temperature   Temperat
Instrument Location   LAB/M-08   Discipline   Thermal
MASTER EQUIPMENT TRACEABILITY DETAILS     SI.No.   Nomenclature   Make / Model   SI. No. / Id. No.   Certificate No.   Valificate No.   Vali
Precision Thermometer with RTD Sensor   Lutron / TM-917   Q601311 / VI/TH/PT- 01   VI/20-21/INT-TH-55   28-08
Precision Thermometer with RTD Sensor   Lutron / TM-917   Q601311 / VI/TH/PT- 01   VI/20-21/INT-TH-55   28-08
With RTD Sensor   Lutron / TM-917   Q601311 / VI/TH/PT-
Dry Block Calibrator is used as source.     Ref. Doc. : SOP-38-04
Test Results of Temperature  SI. No. Set Point (°C) DUC Reading (°C) Standard Reading (°C) Error Observed (°C) Measurement Uncertainty ± (°C) k Fact (X-Y) Unc
Test Results of Temperature  SI. No. Set Point (°C) DUC Reading (°C) Standard Reading (°C) Error Observed (°C) Measurement Uncertainty ± (°C) K Factor (X-Y) Uncertainty ± (°C) Measurement Un
SI. No.   Set Point (°C)   DUC Reading (°C)   Standard Reading (°C)   Error Observed (°C)   Measurement   K Fact (X-Y)   Uncertainty ± (°C)   Measurement   Uncertainty ± (°C)   Uncert
1 -50 -50.3 -50.04 -0.26 0.18 2.0 2 -20 -20.2 -20.02 -0.18 0.18 2.0 3 0 0.1 0.04 0.06 0.18 2.0 4 30 29.7 30.08 -0.38 0.18 2.0 5 80 79.5 80.10 0.26
2     -20     -20.2     -20.02     -0.18     0.18     2.0       3     0     0.1     0.04     0.06     0.18     2.0       4     30     29.7     30.08     -0.38     0.18     2.0       5     80     79.5     80.10     0.20     0.20
3     0     0.1     0.04     0.06     0.18     2.0       4     30     29.7     30.08     -0.38     0.18     2.0       5     80     79.5     80.10     0.20     0.20
4     30     29.7     30.08     -0.38     0.18     2.0       5     80     79.5     80.10     0.20     0.20
5 80 79.5 80.10 0.18 2.0
10.0 80.10
0.18 2.0
0 110 109.3 110.15
2.0
0 110 109.3 110.15



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Date of issues 24 40 200

Format No. : VI-FRM-TH-004					Sheet: 1 of 1			
Customer Name and Address:		M/s:. Excel Prima Diagnostics Mysuru.					Certificate No.: VI/20-21/1518	
	SRF. No.		1518 Received Condition					
CAL				BRATED INSTRUME	NT / EQUIPMENT DETAIL		Satisfac	tory
Nomen	clature	Digital Therm	ome	ter with Sensor	Make			
Range /Resolution		-50 °C to 110				N.	EXTECH	
0 111		17-10-2020			ld. No.	L	AB/T-02	
0-10-11		Onsite			Calibration due on		6-10-2021	
		LAB/M-06			Temperature/Humidit	у 2	3.3 °C / 55°	%RH
		272/11/-00	-		Discipline	. Т	Thermal	
SI.No.	Name		MA	STER EQUIPMENT T	RACEABILITY DETAILS			
The Address of	Nomenc Precision The			Make / Model	SI. No. / Id. No.	Certifica	eta No	14.0.46
1	with RTD	Sensor		Lutron / TM-917	Q601311 / VI/TH/PT-			Validity
2	Dry Block Calibi		SOU	rce	01	VI/20-21/IN	IT-TH-55	28-08-202
he mas	ter equipments i	used are traces	ble to	o National Standards				
						Ref. Doc. :	SOP-38-04	
I. No.	Set Point	DUC Reading	(°C)	Test Results of	C) Error Observed (°C)			
1	-50	(**)		(Y)	(X-Y)	Measure Uncertaint	ment y ± (°C)	k Factor
2		-50.3		-50.05	-0.25	0.18		2.0
	-20	-20.2		-20.02	-0.18	0.18		
3	0	0.1		0.04	0.06			2.0
4	30	30.3		30.05		0.18		2.0
5	80	80.5			0.25	0.18		2.0
6	110			80.09	0.41	0.18		2.0
ote: 110   110.7				110.13	0.57	0.18		

om respective reference standards by direct comparison method.

Conclusion: Measurement Uncertainty reported is at 95.45% confidence level with k=2.

The Reported Results are valid only for the conditions of the received instruments at the time of and under the stated conditions of

Calibrated By

Darshan D.C (Calibration Engineer) Checked By

Umestr D

(Onsite In-Charge)

Gangadhar C.K Out. Bang



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NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

Date of issue: 21-10-2020

Form	at No. : VI-FRM-	TH-004	ШВ	No - 1000	7320500065738F	Sheet:	sue: 21-10-20 1 of 1
Customer Name and Address:		M/s:. Excel I	Prima Diagnosti	Certificate No.: VI/20-21/1518			
	SRF. No.		1518	F	Received Condition	T	
CALIBRATED				NSTRUME	NT / EQUIPMENT DETAIL	Satisfa	ctory
Nomenclature		Digital Thern	nometer with Se	nsor	Make		
Range /Resolution		-50 °C to 110				MEXTECH	
Calibra	ited on	17-10-2020	070.10		ld. No.	LAB/T-03	
Calibra	tion Done At	Onsite			Calibration due on	16-10-202	
					Temperature/Humidit	y 26.3 °C / 5	5%RH
not differ Location		LAB/M-07		T. Carlotte	Discipline	Thermal	
	T		MASTER EQU	JIPMENT T	RACEABILITY DETAILS	Titolina	
I.No.	Nomeno		Make / I	Vlodel	SI. No. / Id. No.	Certificate No.	
1	Precision The with RTD	ermometer	Lutron / T	M-917	Q601311 / VI/TH/PT-		Validity
2	Dry Block Calib			101-517	01	VI/20-21/INT-TH-55	28-08-202
he mas	ster equipments	used are trees	able to National 8				
	- squipments	used are trace				Ref. Doc. : SOP-38-0	4
	Set Point	DUC Bandin	Test	Results of	Temperature		-
I. No.	(°C)	DUC Reading (X)	(°C) Standard	Reading ( (Y)	°C) Error Observed (°C) (X-Y)	Measurement Uncertainty ± (°C)	k Factor
	-50	-50.2		50.04	-0.16	0.18	
2	-20	-20.1	-2	20.02	-0.08		2.0
3	0	0.2		0.04		0.18	2.0
4	30				0.16	0.18	2.0
5		29.5	3	0.07	-0.57	0.18	2.0
	80	79.3	80	0.10	-0.80	0.18	2.0
6 110 109.2 te:		11	10.13 -0.93		0.18	2.0	

ermination of various readings of above Instrument are from respective reference standards by direct comparison method. Conclusion: Measurement Uncertainty reported is at 95.45% confidence level with k = 2.

The Reported Results are valid only for the conditions of the received instruments at the time of and under the stated conditions of

Calibrated By Darshan D.C (Calibration Engineer)

Checked By Umesh D (Onsite In-Charge)

MABI Gangadhar



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1 Nai	me and Address of the C	Customer M/s	: M/s:. Excel Prima	Page 1 of	2			
			Mysuru.		0			
	stomer Reference 1 ULR		. 0004700050000					
	2 SRF No		: CC247320500065	5741F				
	3 Certificate No.		: 1518					
	4 Format No.		: VI/20-21/1518-05					
	5 Date of Issue		: VI-FRM-ME-046 : 21-10-2020					
	ails Of Device Under Ca		. 21-10-2020					
	1 Nomenclature	The second secon	: Centrifuge					
3.	2 Make / Model		: REMI / R-8C					
3.3	3 Id. No.		: LAB/C-01					
3.4	4 DUC Condition		: Satisfactory					
3.	5 Calibration Procedure N		: SOP-16-42					
3.6	No.of Pages		2					
3.7	7 Calibration Date		17-10-2020					
3.8	3 Calibration Due		16-10-2021					
3.9	Calibration done at		Onsite					
3.10	Instrument Location		LAB/M-01					
3.11	Discipline		Machanical					
4 Env	ironmental Condition							
	Temperature	26.5 °C	Humid	dity 55	%Rh			
5 Stan	dards Used for calibrati	on						
SI. No.	Nomenclature	Make & Model	SI. No.	Certificate No.	Validity			
1	Digital Tachometer	SENTRY / ST723	SN1323004225	ULR- CC287920000004732F	10-09-2021			
6 Note	s:							
6.1.	The Calibration Certificate	e relates only to the a	bove DUC					
	2. Publication or reproduction of this Certificate in any form other than by complete set of the whole							
	report & in the language,	written is not permitt	ed without the write	in by complete set of the whole	е			
6.3.	Corrections/erasing, inval	idate the Calibration	Certificate	en consent of VI Lab.				
	Calibration of the DUC are			#				
6.5.	Any error in this Certificat	e should be brought	a standards/interna	tional Standards				
6.6.	Results Reported are valid	d at the time of and u	o our knowledge wi	thin 30 days from the date of	this Cert.			
6.7.	The usage of NABL Symb	nol is as per NARI au	idelines sixte in NA	ditions of measurements				
	librated By			BL-133	(3)			
	CV -	Checke	MAN.	Authorized	3 × =			
	Darefian D.C	Umes	HD	Gangadhar (	15/5			
(Calibi	ration Engineer)	(Onsite In-	Charge)	* (2) State Such a	(三) =			

(Onsite In-Charge)