

ULR Number	CC242824000015139F	Certificate Number	RPL-CF-2024-ET-CSRF-1277-C-2907
Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Electro Technical Calibration Certificate For TUS Recorder (48 Channel)

Laboratory certifies that the equipment has been calibrated in accordance with a quality system registered to ISO 9001:2015 and confirms to ISO/IEC 17025:2017 and laboratory applicable procedures.

The measurement expanded uncertainty is expressed at 95% confidence level with a coverage factor equal to two ($k=2$).

Laboratory measurement standards are traceable through unbroken chain of comparison to National and / or to International Standards.

Calibration of all equipment, meters used are traceable to National Standards / International Standards and their calibration are current.

This calibration report contains the results of calibration and / or other relevant data about the calibration.

This report applies only to the item identified and shall not be reproduced except in full, without specific written approval from the Laboratory.

No statement of compliance with specifications is made or implied on this report. However, the results are reviewed to establish where any measurement results exceed the manufacturers specification and communicate results by means of this report.



Lab QR Code



Certificate QR Code

Calibration Procedure	As Received Conditions	As Shipped Condition
Simulation Method / RPL-L03-DI-025-ET-012	Satisfactory	Cleaned & Calibrated

Calibrated By		Reviewed & Approved By Authorized Signatory	
Identification	RPL-TM-02	Identification	Jayasree Manikandan

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Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Date of Performance of Calibration	31.12.2024	Date of Issue	31.12.2024
		Recommended Due Date	31.03.2025

Name & Contact information of Customer:	Bay - Forge Private Limited, Vedanthangal Road, Palayanoor PO, Maduranthakam Taluk, Kanchipuram - 603 308.	Date of Receipt	31.12.2024
		CSRF Number	RPL/SRF/2024/1277
		Location-Calibrated at	Onsite

Description of the Unit Under Calibration (UUC)

Description	TUS Recorder (48 Channel)	Model	6180 Aero DAQ / N-Type
Range	102 to 540 °C	Serial No	PL2144003372
Least Count	0.1 °C	Identification No	RE-07
Make	Eurotherm	Accuracy	±0.6°C or ±0.2% of reading, whichever is greater
Location	--	Operating Range	102 to 540 °C

Condition of unit under calibration on receipt	Satisfactory
Method used - Reva Phoenix Document Number	Simulation Method / RPL-L03-DI-025-ET-012
Reference Standard (International / National)	EUROMET/cg - 11/v.02, AMS 2750 REV.H

Environmental Details	Temperature	Start	25.4 °C	End	25.4 °C	Difference	0.3 °C
	Relative Humidity		58 %RH		59 %RH		1.0 %RH

Details of Traceability - Master Equipment / Standard used for Calibration

Sl. No.	Description Master Equipment / Standard used for calibration	Metrological Traceability to National / International Standards
1	Multi Function Calibrator	JRPM-CF-2024-ET-CSRF-0388-C-1014 Valid till 23.04.2025

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Discipline : Electro Technical

Calibration Results (As Found)

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed (±)	Expanded Uncertainty (±)
Channel - 1 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	399.9	-0.1	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	439.9	-0.1	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.0	0.0	0.6	0.50
9	500.00	500.0	0.0	0.6	0.50
10	540.00	540.0	0.0	0.6	0.50
Channel - 2 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	101.8	-0.2	0.6	0.50
2	200.00	199.9	-0.1	0.6	0.50
3	300.00	299.8	-0.2	0.6	0.50
4	400.00	399.9	-0.1	0.6	0.50
5	420.00	419.8	-0.2	0.6	0.50
6	440.00	439.9	-0.1	0.6	0.50
7	460.00	459.9	-0.1	0.6	0.50
8	480.00	479.8	-0.2	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50

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Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed (±)	Expanded Uncertainty (±)
10	540.00	539.9	-0.1	0.6	0.50
Channel - 3 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	101.9	-0.1	0.6	0.50
2	200.00	199.9	-0.1	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	399.9	-0.1	0.6	0.50
5	420.00	419.8	-0.2	0.6	0.50
6	440.00	439.9	-0.1	0.6	0.50
7	460.00	459.9	-0.1	0.6	0.50
8	480.00	479.9	-0.1	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50
10	540.00	539.9	-0.1	0.6	0.50
Channel - 4 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	101.9	-0.1	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	419.9	-0.1	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.0	0.0	0.6	0.50
9	500.00	500.0	0.0	0.6	0.50

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Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	539.9	-0.1	0.6	0.50
Channel - 5 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.1	0.1	0.6	0.50
9	500.00	500.0	0.0	0.6	0.50
10	540.00	540.0	0.0	0.6	0.50
Channel - 6 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.1	0.1	0.6	0.50
9	500.00	500.0	0.0	0.6	0.50

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10	540.00	540.1	0.1	0.6	0.50
Channel - 7 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.0	0.0	0.6	0.50
9	500.00	500.0	0.0	0.6	0.50
10	540.00	540.0	0.0	0.6	0.50
Channel - 8 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	102.1	0.1	0.6	0.50
2	200.00	200.1	0.1	0.6	0.50
3	300.00	300.1	0.1	0.6	0.50
4	400.00	400.1	0.1	0.6	0.50
5	420.00	420.2	0.2	0.6	0.50
6	440.00	440.1	0.1	0.6	0.50
7	460.00	460.1	0.1	0.6	0.50
8	480.00	480.2	0.2	0.6	0.50
9	500.00	500.1	0.1	0.6	0.50

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10	540.00	540.1	0.1	0.6	0.50
Channel - 9 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.8	-0.2	0.6	0.50
2	200.00	199.8	-0.2	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	399.9	-0.1	0.6	0.50
5	420.00	419.9	-0.1	0.6	0.50
6	440.00	439.9	-0.1	0.6	0.50
7	460.00	459.9	-0.1	0.6	0.50
8	480.00	480.0	0.0	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50
10	540.00	539.9	-0.1	0.6	0.50
Channel - 10 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.7	-0.3	0.6	0.50
2	200.00	199.7	-0.3	0.6	0.50
3	300.00	299.7	-0.3	0.6	0.50
4	400.00	399.7	-0.3	0.6	0.50
5	420.00	419.8	-0.2	0.6	0.50
6	440.00	439.8	-0.2	0.6	0.50
7	460.00	459.7	-0.3	0.6	0.50
8	480.00	479.7	-0.3	0.6	0.50
9	500.00	499.7	-0.3	0.6	0.50

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10	540.00	539.7	-0.3	0.6	0.50
Channel - 11 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.0	0.0	0.6	0.50
9	500.00	500.1	0.1	0.6	0.50
10	540.00	540.1	0.1	0.6	0.50
Channel - 12 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.1	0.1	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.0	0.0	0.6	0.50
9	500.00	500.0	0.0	0.6	0.76

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10	540.00	540.0	0.0	0.6	0.50
Channel - 13 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	101.7	-0.3	0.6	0.50
2	200.00	199.7	-0.3	0.6	0.50
3	300.00	299.7	-0.3	0.6	0.50
4	400.00	399.7	-0.3	0.6	0.50
5	420.00	419.7	-0.3	0.6	10.30
6	440.00	439.7	-0.3	0.6	0.50
7	460.00	459.7	-0.3	0.6	0.50
8	480.00	479.8	-0.2	0.6	0.50
9	500.00	499.7	-0.3	0.6	0.50
10	540.00	539.7	-0.3	0.6	0.50
Channel - 14 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	102.1	0.1	0.6	0.50
2	200.00	200.1	0.1	0.6	0.50
3	300.00	300.1	0.1	0.6	0.50
4	400.00	400.1	0.1	0.6	0.50
5	420.00	420.1	0.1	0.6	0.50
6	440.00	440.1	0.1	0.6	0.50
7	460.00	460.1	0.1	0.6	0.50
8	480.00	480.1	0.1	0.6	0.50
9	500.00	500.1	0.1	0.6	0.50

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10	540.00	540.1	0.1	0.6	0.50
Channel - 15 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.7	-0.3	0.6	0.50
2	200.00	199.8	-0.2	0.6	0.50
3	300.00	299.8	-0.2	0.6	0.50
4	400.00	399.8	-0.2	0.6	0.50
5	420.00	419.8	-0.2	0.6	0.50
6	440.00	439.8	-0.2	0.6	0.50
7	460.00	459.8	-0.2	0.6	0.50
8	480.00	479.8	-0.2	0.6	0.50
9	500.00	499.8	-0.2	0.6	0.50
10	540.00	539.8	-0.2	0.6	0.50
Channel - 16 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.1	0.1	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.1	0.1	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.1	0.1	0.6	0.50
9	500.00	500.0	0.0	0.6	0.50

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10	540.00	540.0	0.0	0.6	0.50
Channel - 17 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.2	0.2	0.6	0.50
2	200.00	200.2	0.2	0.6	0.50
3	300.00	300.1	0.1	0.6	0.50
4	400.00	400.2	0.2	0.6	0.50
5	420.00	420.2	0.2	0.6	0.50
6	440.00	440.2	0.2	0.6	0.50
7	460.00	460.2	0.2	0.6	0.50
8	480.00	480.2	0.2	0.6	0.50
9	500.00	500.1	0.1	0.6	0.50
10	540.00	540.2	0.2	0.6	0.50
Channel - 18 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.1	0.1	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.1	0.1	0.6	0.50
9	500.00	500.1	0.1	0.6	0.50

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10	540.00	540.1	0.1	0.6	0.50
Channel - 19 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	399.9	-0.1	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.0	0.0	0.6	0.50
9	500.00	500.0	0.0	0.6	0.50
10	540.00	540.0	0.0	0.6	0.50
Channel - 20 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.1	0.1	0.6	0.50
8	480.00	479.9	-0.1	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50

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10	540.00	540.1	0.1	0.6	0.50
Channel - 21 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	400.1	0.1	0.6	0.50
5	420.00	420.1	0.1	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	459.8	-0.2	0.6	0.50
8	480.00	480.1	0.1	0.6	0.50
9	500.00	500.1	0.1	0.6	0.50
10	540.00	540.1	0.1	0.6	0.50
Channel - 22 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.9	-0.1	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	399.9	-0.1	0.6	0.50
5	420.00	419.9	-0.1	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	459.9	-0.1	0.6	0.50
8	480.00	479.9	-0.1	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50

Calibrated By		Reviewed & Approved By Authorized Signatory	
Identification	RPL-TM-02	Identification	Jayasree Manikandan

ULR Number	CC242824000015139F	Certificate Number	RPL-CF-2024-ET-CSRF-1277-C-2907
Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	539.9	-0.1	0.6	0.50
Channel - 23 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.1	0.1	0.6	0.50
2	200.00	200.1	0.1	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.0	0.0	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50
10	540.00	540.0	0.0	0.6	0.50
Channel - 24 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.6	-0.4	0.6	0.50
2	200.00	199.6	-0.4	0.6	0.50
3	300.00	299.6	-0.4	0.6	0.50
4	400.00	399.6	-0.4	0.6	0.50
5	420.00	419.7	-0.3	0.6	0.50
6	440.00	439.7	-0.3	0.6	0.50
7	460.00	459.7	-0.3	0.6	0.50
8	480.00	479.7	-0.3	0.6	0.50
9	500.00	499.7	-0.3	0.6	0.50

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ULR Number	CC242824000015139F	Certificate Number	RPL-CF-2024-ET-CSRF-1277-C-2907
Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	539.7	-0.3	0.6	0.50
Channel - 25 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.7	-0.3	0.6	0.50
2	200.00	199.7	-0.3	0.6	0.50
3	300.00	299.7	-0.3	0.6	0.50
4	400.00	399.7	-0.3	0.6	0.50
5	420.00	419.7	-0.3	0.6	0.50
6	440.00	439.7	-0.3	0.6	0.50
7	460.00	459.8	-0.2	0.6	0.50
8	480.00	479.8	-0.2	0.6	0.50
9	500.00	499.8	-0.2	0.6	0.50
10	540.00	539.8	-0.2	0.6	0.50
Channel - 26 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.6	-0.4	0.6	0.50
2	200.00	199.7	-0.3	0.6	0.50
3	300.00	299.6	-0.4	0.6	0.50
4	400.00	399.6	-0.4	0.6	0.50
5	420.00	419.6	-0.4	0.6	0.50
6	440.00	439.6	-0.4	0.6	0.50
7	460.00	459.6	-0.4	0.6	0.50
8	480.00	479.6	-0.4	0.6	0.50
9	500.00	499.7	-0.3	0.6	0.50

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Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	539.7	-0.3	0.6	0.50
Channel - 27 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	419.9	-0.1	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.0	0.0	0.6	0.50
9	500.00	500.0	0.0	0.6	0.50
10	540.00	539.9	-0.1	0.6	0.50
Channel - 28 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.3	0.3	0.6	0.50
2	200.00	200.3	0.3	0.6	0.50
3	300.00	300.2	0.2	0.6	0.50
4	400.00	400.3	0.3	0.6	0.50
5	420.00	420.2	0.2	0.6	0.50
6	440.00	440.2	0.2	0.6	0.50
7	460.00	460.2	0.2	0.6	0.50
8	480.00	480.3	0.3	0.6	0.50
9	500.00	500.2	0.2	0.6	0.50

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Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed (±)	Expanded Uncertainty (±)
10	540.00	540.1	0.1	0.6	0.50
Channel - 29 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	102.3	0.3	0.6	0.50
2	200.00	200.3	0.3	0.6	0.50
3	300.00	300.2	0.2	0.6	0.50
4	400.00	400.2	0.2	0.6	0.50
5	420.00	420.3	0.3	0.6	0.50
6	440.00	440.3	0.3	0.6	0.50
7	460.00	460.3	0.3	0.6	0.50
8	480.00	480.3	0.3	0.6	0.50
9	500.00	500.2	0.2	0.6	0.50
10	540.00	540.2	0.2	0.6	0.50
Channel - 30 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	102.2	0.2	0.6	0.50
2	200.00	200.2	0.2	0.6	0.50
3	300.00	300.2	0.2	0.6	0.50
4	400.00	400.2	0.2	0.6	0.50
5	420.00	420.2	0.2	0.6	0.50
6	440.00	440.2	0.2	0.6	0.50
7	460.00	460.2	0.2	0.6	0.50
8	480.00	480.2	0.2	0.6	0.50
9	500.00	500.2	0.2	0.6	0.50

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Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	540.1	0.1	0.6	0.50
Channel - 31 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.8	-0.2	0.6	0.50
2	200.00	199.8	-0.2	0.6	0.50
3	300.00	299.8	-0.2	0.6	0.50
4	400.00	399.8	-0.2	0.6	0.50
5	420.00	419.9	-0.1	0.6	0.50
6	440.00	439.9	-0.1	0.6	0.50
7	460.00	459.9	-0.1	0.6	0.50
8	480.00	479.9	-0.1	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50
10	540.00	539.9	-0.1	0.6	0.50
Channel - 32 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.7	-0.3	0.6	0.50
2	200.00	199.7	-0.3	0.6	0.50
3	300.00	299.8	-0.2	0.6	0.50
4	400.00	399.8	-0.2	0.6	0.50
5	420.00	419.9	-0.1	0.6	0.50
6	440.00	439.9	-0.1	0.6	0.50
7	460.00	459.9	-0.1	0.6	0.50
8	480.00	479.9	-0.1	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50

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Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed (±)	Expanded Uncertainty (±)
10	540.00	539.9	-0.1	0.6	0.50
Channel - 33 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	101.8	-0.2	0.6	0.50
2	200.00	199.8	-0.2	0.6	0.50
3	300.00	299.8	-0.2	0.6	0.65
4	400.00	399.8	-0.2	0.6	0.50
5	420.00	419.8	-0.2	0.6	0.50
6	440.00	439.9	-0.1	0.6	0.50
7	460.00	459.9	-0.1	0.6	0.50
8	480.00	479.9	-0.1	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50
10	540.00	539.9	-0.1	0.6	0.50
Channel - 34 (N-Type)					
	°C	°C	°C	°C	°C
1	102.00	102.2	0.2	0.6	0.50
2	200.00	200.2	0.2	0.6	0.50
3	300.00	300.2	0.2	0.6	0.50
4	400.00	400.2	0.2	0.6	0.50
5	420.00	420.3	0.3	0.6	0.50
6	440.00	440.2	0.2	0.6	0.50
7	460.00	460.2	0.2	0.6	0.50
8	480.00	480.2	0.2	0.6	0.50
9	500.00	500.3	0.3	0.6	0.50

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Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	540.3	0.3	0.6	0.50
Channel - 35 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.8	-0.2	0.6	0.50
2	200.00	199.8	-0.2	0.6	0.50
3	300.00	299.8	-0.2	0.6	0.50
4	400.00	399.8	-0.2	0.6	0.50
5	420.00	419.8	-0.2	0.6	0.50
6	440.00	439.9	-0.1	0.6	0.50
7	460.00	459.9	-0.1	0.6	0.50
8	480.00	479.9	-0.1	0.6	0.50
9	500.00	499.8	-0.2	0.6	0.50
10	540.00	539.9	-0.1	0.6	0.50
Channel - 36 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.7	-0.3	0.6	0.50
2	200.00	199.7	-0.3	0.6	0.50
3	300.00	299.7	-0.3	0.6	0.50
4	400.00	399.7	-0.3	0.6	0.50
5	420.00	419.8	-0.2	0.6	0.50
6	440.00	439.8	-0.2	0.6	0.50
7	460.00	459.8	-0.2	0.6	0.50
8	480.00	479.9	-0.1	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50

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Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	539.9	-0.1	0.6	0.50
Channel - 37 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	419.9	-0.1	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.0	0.0	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50
10	540.00	540.0	0.0	0.6	0.50
Channel - 38 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.1	0.1	0.6	0.50
9	500.00	500.1	0.1	0.6	0.50

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Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	540.1	0.1	0.6	0.50
Channel - 39 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.1	0.1	0.6	0.50
2	200.00	200.1	0.1	0.6	0.50
3	300.00	300.1	0.1	0.6	0.50
4	400.00	400.1	0.1	0.6	0.50
5	420.00	420.1	0.1	0.6	0.50
6	440.00	440.1	0.1	0.6	0.50
7	460.00	460.2	0.2	0.6	0.50
8	480.00	480.1	0.1	0.6	0.50
9	500.00	500.1	0.1	0.6	0.50
10	540.00	540.2	0.2	0.6	0.50
Channel - 40 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.9	-0.1	0.6	0.50
2	200.00	199.9	-0.1	0.6	0.50
3	300.00	299.8	-0.2	0.6	0.50
4	400.00	399.9	-0.1	0.6	0.50
5	420.00	419.9	-0.1	0.6	0.50
6	440.00	439.9	-0.1	0.6	0.50
7	460.00	459.8	-0.2	0.6	0.50
8	480.00	479.9	-0.1	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50

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Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	539.9	-0.1	0.6	0.50
Channel - 41 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.7	-0.3	0.6	0.50
2	200.00	199.7	-0.3	0.6	0.50
3	300.00	299.7	-0.3	0.6	0.50
4	400.00	399.8	-0.2	0.6	0.50
5	420.00	419.8	-0.2	0.6	0.50
6	440.00	439.8	-0.2	0.6	0.50
7	460.00	459.8	-0.2	0.6	0.50
8	480.00	479.9	-0.1	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50
10	540.00	539.9	-0.1	0.6	0.50
Channel - 42 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.1	0.1	0.6	0.50
9	500.00	500.0	0.0	0.6	0.50

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Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	540.0	0.0	0.6	0.50
Channel - 43 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.3	0.3	0.6	0.50
2	200.00	200.2	0.2	0.6	0.50
3	300.00	300.2	0.2	0.6	0.50
4	400.00	400.2	0.2	0.6	0.50
5	420.00	420.3	0.3	0.6	0.50
6	440.00	440.3	0.3	0.6	0.50
7	460.00	460.3	0.3	0.6	0.50
8	480.00	480.3	0.3	0.6	0.50
9	500.00	500.2	0.2	0.6	0.50
10	540.00	540.3	0.3	0.6	0.50
Channel - 44 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.2	0.2	0.6	0.50
2	200.00	200.2	0.2	0.6	0.50
3	300.00	300.2	0.2	0.6	0.50
4	400.00	400.2	0.2	0.6	0.50
5	420.00	420.2	0.2	0.6	0.50
6	440.00	440.2	0.2	0.6	0.50
7	460.00	460.2	0.2	0.6	0.50
8	480.00	480.2	0.2	0.6	0.50
9	500.00	500.2	0.2	0.6	0.50

Calibrated By		Reviewed & Approved By Authorized Signatory		
Identification	RPL-TM-02	Identification	Jayasree Manikandan	

ULR Number	CC242824000015139F	Certificate Number	RPL-CF-2024-ET-CSRF-1277-C-2907
Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	540.2	0.2	0.6	0.50
Channel - 45 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.3	0.3	0.6	0.50
2	200.00	200.3	0.3	0.6	0.50
3	300.00	300.3	0.3	0.6	0.50
4	400.00	400.2	0.2	0.6	0.50
5	420.00	420.3	0.3	0.6	0.50
6	440.00	440.3	0.3	0.6	0.50
7	460.00	460.3	0.3	0.6	0.50
8	480.00	480.3	0.3	0.6	0.50
9	500.00	500.3	0.3	0.6	0.50
10	540.00	540.3	0.3	0.6	0.50
Channel - 46 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	101.9	-0.1	0.6	0.50
2	200.00	199.9	-0.1	0.6	0.50
3	300.00	299.9	-0.1	0.6	0.50
4	400.00	399.9	-0.1	0.6	0.50
5	420.00	419.9	-0.1	0.6	0.50
6	440.00	439.9	-0.1	0.6	0.50
7	460.00	459.9	-0.1	0.6	0.50
8	480.00	479.8	-0.2	0.6	0.50
9	500.00	499.9	-0.1	0.6	0.50

Calibrated By		Reviewed & Approved By Authorized Signatory		
Identification	RPL-TM-02	Identification	Jayasree Manikandan	

ULR Number	CC242824000015139F	Certificate Number	RPL-CF-2024-ET-CSRF-1277-C-2907
Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed ($\pm$)	Expanded Uncertainty ($\pm$)
10	540.00	539.9	-0.1	0.6	0.50
Channel - 47 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.3	0.3	0.6	0.50
2	200.00	200.3	0.3	0.6	0.50
3	300.00	300.3	0.3	0.6	0.50
4	400.00	400.4	0.4	0.6	0.50
5	420.00	420.4	0.4	0.6	0.50
6	440.00	440.4	0.4	0.6	0.50
7	460.00	460.4	0.4	0.6	0.50
8	480.00	480.4	0.4	0.6	0.50
9	500.00	500.4	0.4	0.6	0.50
10	540.00	540.4	0.4	0.6	0.50
Channel - 48 (N-Type)					
	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$	$^{\circ}\text{C}$
1	102.00	102.0	0.0	0.6	0.50
2	200.00	200.0	0.0	0.6	0.50
3	300.00	300.0	0.0	0.6	0.50
4	400.00	400.0	0.0	0.6	0.50
5	420.00	420.0	0.0	0.6	0.50
6	440.00	440.0	0.0	0.6	0.50
7	460.00	460.0	0.0	0.6	0.50
8	480.00	480.1	0.1	0.6	0.50
9	500.00	500.0	0.0	0.6	0.50

Calibrated By		Reviewed & Approved By Authorized Signatory		
Identification	RPL-TM-02	Identification	Jayasree Manikandan	

ULR Number	CC242824000015139F	Certificate Number	RPL-CF-2024-ET-CSRF-1277-C-2907
Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Sr.No.	Nominal Temperature / Reference Value (Master)	Observed Value (UUC)	Error / Deviation (Uncorrected)	Error Allowed (±)	Expanded Uncertainty (±)
10	540.00	540.0	0.0	0.6	0.50

Remarks :



01. As-Left values are same as "As- found" values No Adjustment has been done during the calibration
02. UUC is defined as Unit Under Calibration
03. Temperature Scale : International Temperature Scale 1990 (ITS-90)
04. Any limitations or restrictions of calibration : Nil
05. The above calibration readings were taken as per customer requirement

Calibrated By	Reviewed & Approved By Authorized Signatory	
06. Instrument calibration pass or fail statement : PASS	07. Issuance of Measurement (at 95.45% confidence level with coverage factor k=2)	
08. Identification : RPL-1102	09. Identification : Sayasree Manikandan	

08. Type of Calibration : Re-Calibration



ULR Number	CC242824000015139F	Certificate Number	RPL-CF-2024-ET-CSRF-1277-C-2907
Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Digital Signature of Laboratory:

REVA PHOENIX LABS AND CONSULTANTS

PRIVATE LIMITED

Date: 08/01/2025 09:57:09 +05:30

Reason: Calibration Certificate

Location: Chennai



Calibrated By		Reviewed & Approved By Authorized Signatory		
Identification	RPL-TM-02	Identification	Jayasree Manikandan	

ULR Number	CC242824000015139F	Certificate Number	RPL-CF-2024-ET-CSRF-1277-C-2907
Date of Calibration	31.12.2024	Recommended due date	31.03.2025

Mandatory Annexure to Calibration Certificate

- Calibration Certificate includes all the information as agreed with Customer and as necessary for the interpretation of the results and all information required by the method used, including, additions to deviations, or exclusions.
- All issued reports are retained as technical records by our Laboratory as per ISO/IEC 17025: 2017 requirements.
- Metrological traceability to National | International Standards as per ISO/IEC 17025: 2017 requirements is and Calibration reports do not contain any recommendation on Calibration interval, except where agreed.
- Laboratory is responsible for all the information provided in the report, except when information is provided by the customer. Data provided, where applicable, is clearly identified, as they can affect the validity of results.
- Measurement Uncertainty reported is at approximately 95% confidence level with $k=2$; Unit of measurement result and measurement uncertainty are same as that of range selected, unless otherwise indicated in certificate.
- Calibration Certificate is issued in accordance with the terms and conditions laid down by NABL which has assessed our measurement capability and its traceability to recognized National | International standards.
- Metrological traceability of Masters to National / International Standard is established by unbroken chain of calibration.
- Calibration Certificate pertains only to the particular item(s) submitted and reported for calibration and shall not be reproduced except in full, without the written approval from our Laboratory.
- Results reported in Calibration Certificate are valid at the time of and stated conditions of measurement of UUC.
- Error(s), if any, in the Calibration Certificate, shall be brought to the notice of Laboratory within 30 days from the date of issue. Amendments to Certificate will not be entertained thereafter.
- Calibration Certificate is issued based on Customer requirements for Scientific and Industrial purposes and not meant for other purpose and shall not be produced in the court of law.
- Legal Aspects: Calibration of Weights, Density of solids, Load cell, UTM, Pressure Dead Weight Tester, Pressure Gauge. Liquid-in-glass Thermometer done by our Laboratory is meant for scientific and industrial purpose only. However, if used for commercial trading, additional recognition/ approval shall be complied as required by Department of Legal Metrology, Regulatory body, etc.
- Laboratory is not liable for any change in the reported data and performance specification on account of malfunctioning of Standards | Equipment covered by this Certificate due to damage caused to it after the issue of this Certificate.
- Any corrections | changes | erasing | modifications | unauthorized Seal, Stamp or Signature on this Calibration Certificate invalidate this Certificate.
- Unless otherwise specified, the measurement data reported is considered 'As found data - without any adjustments.'
- Decision Rule: No conformity statement (Pass | Fail | Accepted | Rejected) is provided, unless otherwise indicated on report.
- NABL Guideline 133 is adopted for the use of NABL Symbol.
- This report pertains only to the sample | equipment submitted and shall not be reproduced in part or full, without explicit written permission from our Laboratory.
- Only Digital calibration Certificate in soft, valid and prepared as per ISO/IEC 17025:20217 requirement is issued.

Scope of Accreditation:

Please contact our Laboratory to get a copy of our ISO/IEC 17025: 2017 Accredited Certificate and Scope of Calibration. You may also download the same directly from NABL Website.

Calibrated By		Reviewed & Approved By Authorized Signatory	
Identification	RPL-TM-02	Identification	Jayasree Manikandan

ULR Number	CC242824000015139F	Certificate Number	RPL-CF-2024-ET-CSRF-1277-C-2907
Date of Calibration	31.12.2024	Recommended due date	31.03.2025

For any further information, assistance or feedback; please contact:

Director | Managing Director

Reva Phoenix Labs & Consultants Private Limited

Reva Phoenix Complex, No.14, 4th Street, Rajarajeswari Nagar,

Madipakkam, Chennai 600 091, Tamil Nadu, India

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E mail: enquiry@revaphoenix.com | Website: www.revacalibration.com

Our Accredited Calibration Laboratories:

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- Mechanical - Dimension - Precision Instruments
- Electro Technical - Time & Frequency, Simulation, Electrical Equipment, AC & DC
- Fluid Flow, Air & Water - Flow Measuring Devices
- Mechanical - Force, Push Pull, UTM, Durometer, Mobile Force Measuring System
- Mechanical - Hardness Testing Machines
- Mechanical - Impact Testing Machine
- Mechanical - Mass & Volume, Weighing Scale & Balance, Weights
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- Mechanical - Pressure Indicating Devices
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 Calibrator | Torque Sensor Upto 2000 Nm

Calibrated By		Reviewed & Approved By Authorized Signatory	
Identification	RPL-TM-02	Identification	Jayasree Manikandan


- End of Calibration Certificate -

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