Calibration Certificate

Certificate No	**LM250201/2 / TC / FL / 001**	Unique Lab Report (ULR) ID	**CC285725000000009F**
Date of Calibration	**2/3/2025**	Recommended Next Due Date*	**2/3/2026**
Receipt / WRF No.	**LM250201/2**	Date of DUC Received	**2/1/2025**
Certificate Issue Date	**2/3/2025**	Calibration Performed at	**Lab**

Details of Customer

Name	**AIPL - AIPL**
Address	B-95, Sector-25 GIDC, Gandhinagar, Gujarat, India, 382016
Ref. Doc. No. (GP/PO)	AIPL_GP_02
Date of Doc.	2/1/2025

Details of Device under Calibration (DUC)

Nomenclature	**Digital Flow meter (Electromagnetic)**		
Range of Meter	**0.45 to 9 m³/hr**	Mfg. Serial No	**EFM/2025/108**
Resolution	**0.01 m³/hr**	Identification No	**108**
Size	**50 NB (2")**	Model No	**AIPL-EFM-50NB-PTFE**
Make	**Accumax**	Condition of DUC	**Good**

Details of Calibration Masters and Traceability

Lab ID	Description of Master	Traceability
TEQ033	Mass Flow meter, Make: Krohne, Model: IFS4000, Size: DN50, Serial No. G140000008505124, Range: 0 to 50 m³/hr	Traceable to National Standard through NABL Lab Certif. No CC-3526, Ahmedabad, Certificate No. IPC-11092024-048, Cal Date : 11/09/2024, Valid up to 10/09/2025

Details of Calibration Procedure and Reference Documents

Lab Procedure	Method of Calibration
Lab Procedure No. : COP/005-01	The calibration of DUC was carried out by comparison with Standard flow meter by using Calibration Liquid as Water
Calibration Method is generally based	NABL 129-2019

Details of Environment Condition at the Time of Calibration

Temperature	#DIV/0! °C	Relative Humidity	#DIV/0! % Rh
Temperature of Calibration Liquid	#DIV/0! °C	Density of Calibration Liquid	1.0 ± 0.002 Sp. Gr.
Uncertainty of Measurement	refer next page		

"The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor *k* =2 such that the coverage probability corresponds to 95.45% confidence level

Reviewed and Authorized by

Admin (CEO)

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DISCIPLINE : FLUID FLOW CALIBRATION

GROUP : FLOW MEASURING DEVICES

Calibration Result

1.0 Calibration Result of DUC / Error of Measurement

Calibration is performed by considering the SI unit of Flow 1 m^3/hr = 1 m^3/hr

Sr. No.	Reading on Master (m^3/hr)	Reading on DUC (m^3/hr)	Error (m^3/hr)	Error in % of Reading (%)	Expanded Uncertainty (%)	Coverage Factor
1	0.9954	1.00	0.0046	0.462	± 1.64	2.00
2	1.9934	2.00	0.0066	0.331	± 1.64	2.00
3	3.9954	4.00	0.0046	0.115	± 1.64	2.00
4	5.9954	6.00	0.0046	0.077	± 1.64	2.00
5	7.9954	8.00	0.0046	0.058	± 1.64	2.00

→ K Factor (Primary Constant) of Flow meter at the time of Calibration : 0.1122

General Remarks

- Reporting of DUC/Master Reading is an average of five readings
- The reading has been rounded off wherever applicable
- Calibration is performed without doing any adjustment in its original condition at time of receipt/calibration, unless mentioned herein
- The calibration results relate only to the item calibrated and result reported in the certificate are valid at the time of and under the stated conditions of measurement.
- The Calibration certificate shall not be reproduced except in full, without written permission of the Laboratory
- *Recommended Next Due Date is reported as per requisition of customer

-- End of Certificate --

Reviewed and Authorized by

Admin (CEO)