Quantumcals Calibration and Testing

Synergy Space Rd, BUILDING, Sargasan, Gandhinagar, Gujarat 382421

Email: marketing@quantumcals.com Website:www.quantumcals.com

NABL ISO / IEC 17025 Accredited

FF-050

Calibration Certificate

Certificate No	**LM251224/1 / TC / FL / 002**	Unique Lab Report (ULR) ID	**CC234525000000206F**
Date of Calibration	**24/12/2025**	Recommended Next Due Date*	**24/12/2026**
Receipt / WRF No.	**LM251224/1**	Date of DUC Received	**24/12/2025**
Certificate Issue Date	**25/12/2025**	Calibration Performed at	**Lab**

Details of Customer

Name	**AIPL**
Address	B-95, Sector-25 GIDC, Gandhinagar, Gujarat, India, 382016
Ref. Doc. No. (GP/PO)	LTB-24122025-001
Date of Doc.	24/12/2025

Details of Device under Calibration (DUC)

Nomenclature	**Digital Flow meter (Electromagnetic)**		
Range of Meter	**0.45 to 9 m³/hr**	Mfg. Serial No	**SR_19**
Resolution	**0.01 m³/hr**	Identification No	**ID_19**
Size	**25 NB (1")**	Model No	**AIPL_WM**
Make	**Accumax**	Condition of DUC	**Good**

Details of Calibration Masters and Traceability

Lab ID	Description of Master	Traceability
TEQ030	Mass Flow meter, Make: Krohne, Model: IFS4000, Size: DN25, Serial No. G140000008305187, Range: 0 to 5 m³/hr	Traceable to National Standard through NABL Lab Certif. No CC-3526, Ahmedabad, Certificate No. IPC-11092024-047, 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	29.0 °C	Relative Humidity	34 % Rh
Temperature of Calibration Liquid	22.50 °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

Calibrated by
Denish Vaghasia (Manager)

Verify this Certificate

NABL Scope

Reviewed and Authorized by
Denish Vaghasia (Manager)

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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	1.1081	1.15	0.0419	3.781	± 1.64	2.00
2	2.5418	2.55	0.0082	0.323	± 1.64	2.00
3	3.9908	4.00	0.0092	0.231	± 1.64	2.00
4	5.9908	6.00	0.0092	0.154	± 1.64	2.00
5	8.4908	8.50	0.0092	0.108	± 1.64	2.00

→ K Factor (Primary Constant) of Flow meter at the time of Calibration : 0.23335

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 --

Calibrated by
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Verify this Certificate

NABL Scope

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