



Location Vente Métrologie

CERTIFICATE OF CALIBRATION

LVM'Air, Ecoparc 2, 2 Allée de la Fosse Moret, 27400, Heudebouville
Tel: 02 76 60 02 19 <https://lvmain.fr/>

Environmental Conditions		
Temperature	77.7 (25.4)	°F (°C)
Relative Humidity	54.4	%RH
Barometric Pressure	29.5 (998.7)	inHg (hPa)

Model	A100-35
Serial Number	A100352321001
Customer Name	
Asset ID	

☐ As Left	☒ In Tolerance
☒ As Found	☐ Out of Tolerance

AeroTrak Calibration Bench				
Reference Instrument	System ID	Serial Number	Last Cal Date	Cal Due Date
Flow Meter	E011302	40402030013	2025-11-10	2026-11-10
Remote Particle Counter	E011271	63102024001	2025-11-06	2026-11-06

Calibration Particles				
Particle Size (µm)	Standard Uncertainty (µm)	Standard Deviation (µm)	Lot No.	Expiration Date
0.300	0.005	0.0066	299922	2029-01-31
0.509	0.008	0.0084	297238	2028-11-30
0.994	0.021	0.010	297078	2028-11-30
3.12	0.03	0.06	300843	2029-02-28
5.01	0.04	0.07	302021	2029-03-30
9.92	0.06	0.14	301781	2029-03-01

LVM'Air does hereby certify that the calibration performed on the above described instrument meets the requirements of ISO 21501-4:2018. LVM'Air does hereby certify that the above described instrument conforms to the original manufacturer's specification (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the United States National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. LVM'Air is registered to ISO-9001:2015.

Juliette NOIRTIN

CALIBRATED BY

SIGNATURE

2026-07-17

CALIBRATION DATE

Heudebouville

CALIBRATION LOCATION

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Size Setting Error					
Threshold Size (µm)	Threshold Channel	Size Error	MPE ‡	Std. Uncertainty	Pass/Fail
0.3	33	1.3%	±10%	1.7%	Pass
0.5	378	-1.8%	±10%	1.6%	Pass
1.0	1237	4.6%	±10%	2.3%	Pass
3.0	4195	2.9%	±10%	3.2%	Pass
5.0	4378	-3.6%	±10%	0.81%	Pass
10.0	4931	-5.1%	±10%	2.5%	Pass

Size Resolution				
Nominal Particle Size (µm)	Measured	Allowable Range	Std. Uncertainty	Pass/Fail
0.5	11.2%	≤ 15%	1.6%	Pass

Counting Efficiency ♦				
Nominal Particle Size (µm)	Measured	Allowable Range	Std. Uncertainty	Pass/Fail
0.3	47%	30-70%	3.7%	Pass
0.5	96%	90-110%	3.6%	Pass

False Count						
Sample Time (min)	Sample Volume (L)	Measured Counts (#)	Concentration (#/m³)	95% UCL (#/m³)	Allowable Range (#/m³)	Pass/Fail
45	2250	2	0.90	2.8	≤ 4.0	Pass

Sampling Flow Rate (L/min)					
Nominal	Actual	MPE ‡	Flow Error	Std. Uncertainty	Pass/Fail
50.00	48.37	5%	-3.26%	0.45%	Pass

Response Rate †		
Measured	Allowable Range	Pass/Fail
0.008%	≤ 0.5%	Pass

Maximum Particle Concentration †
286,383,300 #/m³ @10% Coincidence Loss

Sampling Time Accuracy †		
Measured	MPE ‡	Pass/Fail
< 0.1%	1%	Pass

† Tested and verified during product development

♦ Counting Efficiency was obtained via digital output

‡ Maximum Permissible Error