



CERTIFICATE OF CALIBRATION

TSI Instruments Ltd, Stirling Road, Cressex Business Park, High Wycombe, Bucks, HP12 3ST, England
Tel: (int+44) (UK0) 1494 459200 Fax: (int+44) (UK0) 1494 459700 <http://www.tsi.com>

Environmental Conditions		
Temperature	68.5 (20.3)	°F (°C)
Relative Humidity	58.2	%RH
Barometric Pressure	29.7 (1006)	inHg (hPa)

Model	A100-35
Serial Number	A100352430002
Customer Name	
Asset ID	

☒ As Left
☐ As Found

☒ In Tolerance
☐ Out of Tolerance

AeroTrak Calibration Bench				
Reference Instrument	System ID	Serial Number	Last Cal Date	Cal Due Date
Remote Particle Counter	E006326	63102023002	2026-05-21	2027-05-21
Flow Meter	UK40402123011	40402123011	2026-04-17	2027-04-17

Calibration Particles				
Particle Size (µm)	Standard Uncertainty (µm)	Standard Deviation (µm)	Lot No.	Expiration Date
0.300	0.005	0.0066	270896	2026-08-31
0.509	0.008	0.0084	297238	2028-11-30
0.994	0.02	0.010	283154	2027-08-31
3.020	0.03	0.03	287254	2027-12-31
5.02	0.03	0.06	237267	2026-10-31
9.93	0.06	0.13	272121	2026-09-30

TSI does hereby certify that the calibration performed on the above described instrument meets the requirements of ISO 21501-4:2018. TSI 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. TSI is registered to ISO-9001:2015.

Jonathan Periera

CALIBRATED BY

SIGNATURE

2026-07-24

CALIBRATION DATE

TSI UK Bench 4

CALIBRATION LOCATION



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Size Setting		
Threshold Size (µm)	Threshold Channel	Std. Uncertainty
0.3	26	1.7%
0.5	401	1.6%
1.0	596	2.2%
3.0	4194	3.3%
5.0	4339	0.61%
10.0	5089	2.5%

Size Resolution				
Nominal Particle Size (µm)	Measured	Allowable Range	Std. Uncertainty	Pass/Fail
0.5	14.3%	≤ 15%	1.6%	Pass

Counting Efficiency ♦				
Nominal Particle Size (µm)	Measured	Allowable Range	Std. Uncertainty	Pass/Fail
0.3	49%	30-70%	3.7%	Pass
0.5	101%	90-110%	3.6%	Pass

False Count						
Sample Time (min)	Sample Volume (L)	Measured Counts (#)	Concentration (#/m ³)	95% UCL (#/m ³)	Allowable Range (#/m ³)	Pass/Fail
120	6000	4	0.70	1.5	≤ 4.0	Pass

Sampling Flow Rate (L/min)					
Nominal	Actual	MPE ‡	Flow Error	Std. Uncertainty	Pass/Fail
50.00	49.78	±5%	-0.44%	0.45%	Pass

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

Maximum Particle Concentration †
286,383,300 #/m ³ @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

Calibration Interval	
Calibration Date	Expiration Date
2026-07-24	2027-07-24



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Environmental Conditions			Model	A100-35
Temperature	67.8 (19.9)	°F (°C)	Serial Number	A100352430002
Relative Humidity	51	%RH	Customer Name	
Barometric Pressure	29.8 (1008)	inHg (hPa)	Asset ID	

☐ As Left
☒ As Found

☐ In Tolerance
☒ Out of Tolerance

AeroTrak Calibration Bench				
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Size Setting Error					
Threshold Size (µm)	Threshold Channel	Size Error	MPE ‡	Std. Uncertainty	Pass/Fail
0.3	27	-0.8%	±10%	1.7%	Pass
0.5	344	-0.5%	±10%	1.6%	Pass
1.0	723	-22.0%	±10%	2.2%	Fail
3.0	4168	-5.3%	±10%	3.3%	Pass
5.0	4322	-7.2%	±10%	0.61%	Pass
10.0	5106	-1.3%	±10%	2.5%	Pass

Size Resolution				
Nominal Particle Size (µm)	Measured	Allowable Range	Std. Uncertainty	Pass/Fail
0.5	13.0%	≤ 15%	1.6%	Pass

Counting Efficiency ♦				
Nominal Particle Size (µm)	Measured	Allowable Range	Std. Uncertainty	Pass/Fail
0.3	46%	30-70%	3.7%	Pass
0.5	105%	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
120	6000	4	0.70	1.5	≤ 4.0	Pass

Sampling Flow Rate (L/min)					
Nominal	Actual	MPE ‡	Flow Error	Std. Uncertainty	Pass/Fail
50.00	48.94	±5%	-2.12%	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

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TSI GmbH
Neuköllner Straße 4
52068 Aachen
Germany

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Service Report For Request 300800444

Date Received: 20 Jul 2026

Date Completed: 24 Jul 2026

Sold-To Customer: 5622537

LVM'Air

9b rue Du Val

27430 Saint Etienne Du Vauvray

France

Ship-To Customer: 543797

Arnaud Noirtin

LVM#AIR

Arnaud NOIRTIN

2, Allée de la Fosse Moret

Ecoparc 2

27400 HEUDEBOUVILLE

France

Customer PO: PO-20260710L

Service Performed: QU-CCPORTABLE Analyse pr établissement devis réparatio

Model Serviced: A1003500 Portable APC 0.3 um 50 LPM

Serial Number: A100352430002

CUSTOMER RETURN REASON:

Repair and calibrate under warranty# Flow problem

AS FOUND RESULT: FAIL

TECHNICIAN:

J.Pereira

TECHNICIAN'S FINDINGS:

No issue with flow, passed flow checks on As Found. Sizing needs to be recalibrated. Unit needs a clean, service and calibration

TECHNICIAN'S ACTIONS:

The following action items were taken to ensure proper operation:

Unit has been cleaned, serviced and calibrated.

TSI STANDARD TASKS PERFORMED:

Through our quality policy we ensure that the best services are available to our customers. Below is a checklist of standard tasks that are performed on your instrument:

- As-Found calibration (if possible)
- Clean inlet & outlet nozzle
- Replace and/or regrease o-rings
- Replace coin cell battery (as required)
- Replace tubing & filters
- Clean optics, spherical mirror & beam stop
- Align & collimate the laser (if applicable)
- As-Left calibration with NIST/UKAS traceable calibration, including performance evaluation against proprietary TSI calibration bench



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Service Report For Request 300800444

TSI QUALITY COMMITMENT

TSI VISION

Creating a better world by helping protect people, products and the environment, and by optimizing research and industrial processes.

TSI MISSION

TSI provides trusted measurement, application guidance, and data analytics solutions that enable our customers to make informed decisions.

OUR QUALITY POLICY

The employees of TSI are committed to meet and, where possible, exceed our customer's requirements for application guidance, precision measurement solutions and data management through the continual improvement of our products and processes.

Thank you for the opportunity to service your instrument.