

AeroTrak™+ Portable Airborne Particle Counters

A100 Series



AeroTrak™+ Portable Airborne Particle Counters (APCs) are ideal for all industries for cleanroom certification, monitoring and specialized tasks including gas testing and filter scanning.

AeroTrakTM+ Portable APCs provide the newest features—data integrity (including Annex 1), communication options, and an intuitive GUI—that lead to a better customer experience and easy compliance. Standalone or as part of an easy to use complete monitoring system, AeroTrak+Portable APCs meet your needs.

Choose Your Model

Model	Flow Rate	Channel Size Options	Recommended Manufacturing Application				
A100-31	1 CFM (28.3 LPM)	0.3 µm to 10 µm, (6) user selectable channels	Pharmaceutical, Semiconductor, Electronics, Aerospace, Optics, Automotive, Clean Manufacturing				
A100-35	1.77 CFM (50 LPM)	0.3 µm to 10 µm, (6) user selectable channels	Pharmaceutical, Medical, Manufacturing				
A100-51	1 CFM (28.3 LPM)	0.5 µm to 10 µm, (6) user selectable channels	Pharmaceutical, Semiconductor, Electronics, Aerospace, Optics, Automotive, Clean Manufacturing				
A100-55	1.77 CFM (50 LPM)	0.5 µm to 10 µm, (6) user selectable channels	Pharmaceutical, Medical, Manufacturing				
A100-50	3.5 CFM (100 LPM)	0.5 μm to 10 μm, (6) user selectable channels	Pharmaceutical, Medical, Manufacturing				
A100-(xx) A	"A" suffix adds analog input and output to any model						

Features and Benefits

Warranty

- One instrument does it all- classify, monitor, filter scan, gas testing and root-cause analysis
- Highly visible status conditions LED light bar viewable 20 meters / 360°
- Access user controls for GMP compliance
- Sample the correct volume of gas with built in gas correction factors
- Automated ISO 14644-1 and GMP (EU GMP and China GMP) reporting and instrument workflow with included TrakPro™ Lite Secure Software
- Filter test and investigate mode (both audible and visual)
- ISO 21501-4 calibration compliance
- WiFi® enabled connectivity
- Industry best 5 year laser warranty
- Fit for purpose easy to clean, stainless steel housing
- Simplify integration into third party systems with 4-20 mA analog particle data output and environmental sensor input options
- Multiple instrument reporting supported by latest TrakPro™ Lite Secure Software

Ready for Measurement. Engineered for You. Portable Particle Counters to Make Your Job Easy.



Specifications

AeroTrak™+ Portable Airborne Particle Counters A100 Series

Specific Model Specifications

	A100-31	A100-35	A100-51	A100-55	A100-50
Size Range	0.3 µm to 1	0 μm		0.5 μm to 10 μm	
Flow Rate	1 CFM (28.3 LPM) with ± 5% accuracy	1.77 CFM (50 LPM) with ± 5% accuracy	1 CFM (28.3 LPM) with ± 5% accuracy	1.77 CFM (50 LPM) with ± 5% accuracy	3.53 CFM (100 LPM) with ± 5% accuracy
Particle Channel Sizes	0.3 µm to 10.0 µm, (6) user selectable channels	0.3 µm to 10.0 µm, (6) user selectable channels	0.5 µm to 10.0 µm, (6) user selectable channels	0.5 µm to 10.0 µm, (6) user selectable channels	0.5 µm to 10.0 µm, (6) user selectable channels
Size Resolution	<15% @ 0.3 μm (per ISO 21501-4)			<15% @ 0.5 µm (per ISO 21501-4)	
Otin					

Counting Efficiency 50% at 0.3 μ m; 100% for particles >0.45 μ m 50% at 0.5 μ m, 100% for particles >0.75 μ m

 Concentration
 8,110,000/ft³

 Limit
 (286,383,300/m³) @ 10% coincidence loss all models

For All Models

For All Models					
Light Source Vacuum Source	Laser Diode Internal pump with patented flow control	Data Storage	250,000 sample records, 15 minutes of 1 second data with FMS		
vacaa coa.co	technology and automatic manifold detection	Access Control	Multilevel user access with audit trail		
	(patent pending)	Reports	ISO 14644-1, EU-GMP, China GMP.		
Laser Warranty	Five Years		Reports can be printed or exported		
Instrument Warranty	Two Years	D: ' (11141 D)	to secure XML or PDF		
Calibration Frequency	One Year	Dimensions (HxWxD)	8.9 in x 9.8 in x 8.7 in (22.6 cm x 25 cm x 22.2 cm)		
Communication	Modbus TCP, Ethernet, USB, Wireless	Weight	4.8 kg (10.5 lbs) with battery		
Near Field Communication	Operator and location	Weight	4.3 kg (9.5 lbs) without battery		
Wireless Option	RTU Wireless Option Available		5.2 kg (11.5 lbs) with two batteries		
External Surface	Stainless steel	Power (AC Adapter)	100 - 240 VAC, 50 - 60 Hz, 1.5A Max		
Analog Output Options	4 Channels 4-20 mA output:		Mains supply voltage fluctuations not exceeding +/- 10% of rated voltage,		
	3 User selectable particle sizes-linear or log-scale		DC power requirement to		
	1 Status channel		instrument: 24 VDC @ 5.0 Amps		
Standards	CE, JIS B9921, ISO 21501-4	Storage Range	-40° to 158°F (-40° to 70°C)/		
Operating Range	34° to 95°F (1° to 35°C),		Up to 98% non-condensing		
	5% to 95% non-condensing	Deleter	relative humidity		
Zero Count	<1 count / 5 minutes at the	Printer	Built-in thermal printer (foreign languages supported)		
Carealina Duration	95% UCL (per ISO 21501-4 and JIS) 1 second to 24 hours, continuous	Included Accessories	Power cord, battery, isokinetic probe,		
Sampling Duration	English, French, German, Italian, Polish,	11101000001100	3 m (10 ft) tubing, purge filter, printer paper,		
Languages	Portuguese, Spanish, Chinese (Simplified),		USB cable, alarm connector.		
	Japanese, Korean		Quick Start Guide, Operation Manual and TrakPro™ Lite Secure Software		
Status Indicator		Optional Accessories	Electronic filter scanning probe, basic filter		
(LED Lightbar)	Sampling, Alert, Sampling Complete	Optional Accessories	scanning probe, additional battery, dual-port		
Alarm Output	Normal open dry contact rated 0 to 60 V AC/		external battery charger, printer paper,		
	DC, 1.5 A peak, 0.5 A continuous		isokinetic probes, sample tubing,		
			shipping case		





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