

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.

AeroTrak®+ 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

Choose four would						
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 output to any model					

Features and Benefits

- 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

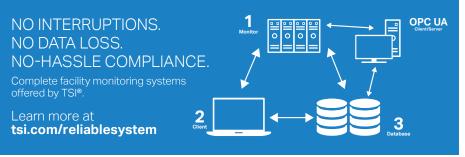
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Specific Model Specifications

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	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)			
Counting Efficiency	50% at 0.3 μm; 100% for particles >0.45 μm		50% at 0.5 μm , 100% for particles >0.75 μm			
Concentration Limit	3,900,000 particles/ft³ (137,670,000/m³) @ 10% coincidence loss all models					

For All Models

For All Models				
Light Source	Laser Diode	Data Storage	250,000 sample records,	
Vacuum Source	Internal pump with patented flow control	Access Control	15 minutes of 1 second data with FMS	
	technology and automatic manifold detection (patent pending)	Access Control	Multilevel user access with audit trail	
Laser Warranty	Five Years	Reports	ISO 14644-1, EU-GMP, China GMP. Reports can be printed or exported	
Instrument Warranty	Two Years		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) 12.8 lbs (5.8 kg) with battery 11.8 lbs (5.4 kg) without battery	
Communication	Ethernet (TCP/IP), USB			
Near Field Communication	Operator and location	Weight		
Wireless Option	RTU Wireless Option Available	Power (AC Adapter)	100 – 240 VAC, 50 – 60 Hz, 1.5A Max	
External Surface	Stainless steel	1 ower (Ao Adapter)	Mains supply voltage fluctuations not	
Analog Output Options	3 Channels 4-20 mA output:		exceeding +/- 10% of rated voltage,	
	2 User selectable particle sizes-linear or log scale		DC power requirement to instrument: 24 VDC @ 5.0 Amps	
	1 Status channel	Storage Range	-40° to 158°F (-40° to 70°C) / Up to 98% non-condensing	
Standards	CE, JIS B9921, ISO 21501-4			
Operating Range	34° to 95°F (1° to 35°C),		relative humidity	
1,111,00	5% to 95% non-condensing	Printer	Built-in thermal printer	
Zero Count	<1 count / 5 minutes at the		(foreign languages supported)	
	95% UCL (per ISO 21501-4 and JIS)	Included Accessories	Power cord, battery, isokinetic probe,	
Sampling Duration	1 second to 24 hours, continuous		3 m (10 ft) tubing, purge filter, printer paper, USB cable, alarm connector.	
Languages	English, French, German, Italian, Polish,		Quick Start Guide, Operation Manual	
	Portuguese, Spanish, Chinese (Simplified), Japanese, Korean		and TrakPro™ Lite Secure Software	
Status Indicator	oupunese, Norean	Optional Accessories	Electronic filter scanning probe, basic filter	
(LED Lightbar)	Sampling, Alert, Sampling Complete		scanning probe, additional battery, dual-port external battery charger, printer paper, isokinetic probes, sample tubing, wireless (WiFi) dongle, NFC tags,	
Alarm Output	Normal open dry contact rated 0 to 60 V AC/			
	DC, 1.5 A peak, 0.5 A continuous			
			shipping case	



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