

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

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

- 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

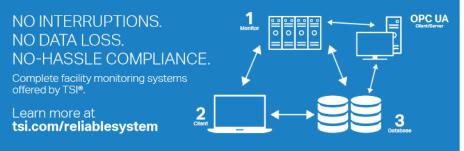
AeroTrak™+ Portable Airborne Particle Counters

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)		
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	8,110,000/ft³ (286,383,300/m³) @ 10% coincidence loss all models				

For All Models

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





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