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.

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 years 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 suppported by latest TrakPro™ Lite Secure Software

Choose Your Model

Model	Flow Rate	Channel Size Options	Recommended Manufacturing Application
A-100-31	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		

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	A100-31	A100-35	A100-51	A100-55	A100-50
Size Range	0.3 µm to 10 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

Light Source	Laser Diode
Vacuum Source	Internal pump with patented flow control technology and automatic manifold detection (patent pending)
Laser Warranty	Five Years
Instrument Warranty	Two Years
Calibration Frequency	One Year
Communication	Modbus TCP, Ethernet, USB, Wireless
Near Field Communication	Operator and location
Wireless Option	RTU Wireless Option Available
External Surface	Stainless steel
Analog Output Options	4 Channels 4-20 mA output: 3 User selectable particle sizes-linear or log scale 1 Status channel
Standards	CE, JIS B9921, ISO 21501-4
Operating Range	34° to 95°F (1° to 35°C), 5% to 95% noncondensing
Zero Count	<1 count/ 5 minutes at the 95% UCL (per ISO 21501-4 and JIS)
Sampling Duration	1 second to 24 hours, continuous
Languages	English, French, German, Italian, Polish, Portuguese, Spanish, Chinese (Simplified), Japanese, Korean

Status Indicator (LED Lightbar) Alarm Output	Sampling, Alert, Sampling Complete Normal open dry contact rated 0 to 60V AC/DC, 1.5A peak, 0.5A continuous
Data Storage	250,000 sample records 15 minutes of 1 second data
Access Control	Multilevel user access with audit trail
Reports	ISO 14644-1, EU-GMP, China GMP, Reports can be printed or exported to secure XML or PDF
Dimensions (HxWxD)	8.9 in. x 9.8 in. x 8.7 in (22.6 cm x 25 cm x 22.2 cm)
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
Power (AC Adapter)	100 - 240 VAC, 50 - 60Hz, 1.5A Max Mains supply voltage fluctuations not exceeding ±10% of rated voltage, DC power requirement to instrument: 24 VDC @5.0 Amps
Storage Range	-40° to 158°F (-40° to 70°C)/ Up to 98% non-condensing relative humidity
Printer	Built-in thermal printer (foreign languages supported)
Included Accessories	Power cord, battery, isokinetic probe, 3m (10ft) tubing, purge filter, printer paper, USB cable, alarm connector. Quick Start Guide, Operation Manual and TrakPro™ Lite Secure Software
Optional Accessories	Electronic filter scanning probe, basic filter, scanning probe, additional battery, dual-port external battery charger, printer paper, isokinetic probes, sample tubing, shiipping case