

AEROTRAK+ REMOTE AIRBORNE PARTICLE COUNTERS 7000 SERIES

AeroTrak+ Remote Airborne Particle Counters (APCs) are ideal for installation in fixed locations where external vacuum systems are used, typical to but not limited to pharmaceutical facilities. They offer the reliability and no-hassle operation cleanroom professionals require for monitoring manufacturing environments. The proactive identification and early-warning of adverse trends reduces risk while decreasing product waste and manufacturing costs. With the AeroTrak+ Remote APCs, have critical data at your fingertips – without worry of data interruption or potential data loss.



Features & Benefits

- + Reliable laser technology backed by the industry's longest warranty (five years)
- + Secure, long-term collection and storage of critical manufacturing data
- + Identifies widest range of particle sizes by way of available model options
- + Long range wireless enabled with minimal infrastructure using LoRaWAN architecture
- + Predictive instrument maintenance alerts
- + Early-warning of adverse environmental trends with second-by-second monitoring
- + Reliable operation with heavy industrial electrical immunity compliance
- + Rapid setup and unit configuration using standard USB-C cable
- + ISO 14644-14 suitability for use classified
- + Vaporized hydrogen peroxide (VHP) resistant
- + Sealed inlet prevents accidental ingress of cleaning solutions
- + Advanced FMS driver auto discovers sensors reducing integration time

CHOOSE THE RIGHT MODEL FOR YOUR NEEDS

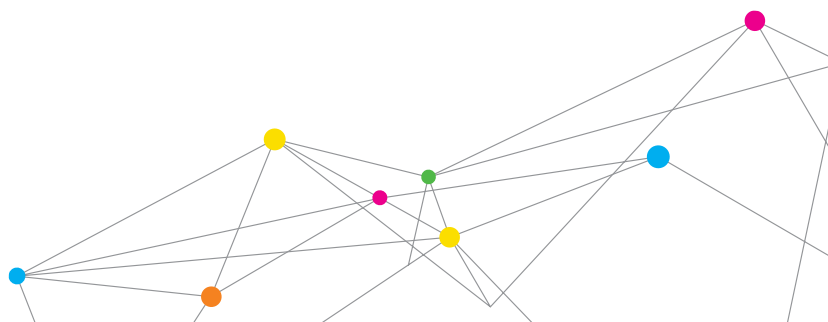
MODEL	FLOW RATE	CHANNEL SIZE OPTIONS	RECOMMENDED MANUFACTURING APPLICATION
<u>7201</u>	0.1 CFM (2.83 LPM)	0.2, 0.3 μm 0.2, 0.3, 0.5, 1.0 μm	Semiconductor
<u>7301</u>	0.1 CFM (2.83 LPM)	0.3, 0.5 μm 0.3, 0.5, 1.0, 5.0 μm 0.3, 0.5, 5.0, 10.0 μm 0.3, 0.5, 1.0, 5.0, 10.0, 25.0 μm	Semiconductor, Electronics, Aerospace, Optics, Automotive, Clean Manufacturing
<u>7310</u>	1 CFM (28.3 LPM)	0.3, 0.5 μm 0.3, 0.5, 1.0, 5.0 μm 0.3, 0.5, 5.0, 10.0 μm	Semiconductor, Electronics
<u>7501</u>	0.1 CFM (2.83 LPM)	0.5, 5.0 μm 0.5, 1.0, 5.0, 10.0 μm 0.5, 5.0, 10.0, 25.0 μm 0.5, 1.0, 5.0, 10.0, 25.0 μm	Electronics, Aerospace, Optics, Automotive, Clean Manufacturing
<u>7510</u>	1 CFM (28.3 LPM)	0.5, 5.0 μm 0.5, 1.0, 5.0, 10.0 μm 0.5, 5.0, 10.0, 25.0 μm	Pharmaceutical, Electronics, Aerospace, Optics, Automotive, Clean Manufacturing

DON'T HAVE AN EXTERNAL VACUUM SYSTEM?

Check out AeroTrak+ Remote APCs with Pumps – designed for use in facilities with limited infrastructure, typical to electronics, semiconductor, and industrial manufacturing facilities.



UNDERSTANDING, ACCELERATED



SPECIFICATIONS

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SPECIFIC MODEL SPECIFICATIONS

	7201	7301	7310	7501	7510 VHP resistant model available
Size range	0.2 to 1 µm	0.3 to 25 µm		0.5 to 25 µm	
Flow Rate	0.1 CFM (2.83 L/min) with ± 5% accuracy		1 CFM (28.3 L/min) with ± 5% accuracy	0.1 CFM (2.83 L/min) with ± 5% accuracy	1 CFM (28.3 L/min) with ± 5% accuracy
Particle Channel Sizes	0.2, 0.3 µm 0.2, 0.3, 0.5, 1.0 µm	0.3, 0.5 µm 0.3, 0.5, 1.0, 5.0 µm 0.3, 0.5, 5.0, 10.0 µm 0.3, 0.5, 1.0, 5.0, 10.0, 25.0 µm	0.3, 0.5 µm 0.3, 0.5, 1.0, 5.0 µm 0.3, 0.5, 5.0, 10.0 µm	0.5, 5.0 µm 0.5, 1.0, 5.0, 10.0 µm 0.5, 5.0, 10.0, 25.0 µm 0.5, 1.0, 5.0, 10.0, 25.0 µm	0.5, 5.0 µm 0.5, 1.0, 5.0, 10.0 µm 0.5, 5.0, 10.0, 25.0 µm
Size Resolution	<15% @ 0.3 µm (per ISO 21501-4)	<15% @ 0.5 µm (per ISO 21501-4)			
Counting Efficiency	50% at 0.2 µm; 100% for particles > 0.3 µm (per ISO 21501-4 and JIS)	50% at 0.3 µm; 100% for particles > 0.45 µm (per ISO 21501-4 and JIS)		50% at 0.5 µm; 100% for particles > 0.75 µm (per ISO 21501-4 and JIS)	
Concentration Limit	4,860,000 particles/ft ³ (172,000,000/m ³) @ 10% coincidence loss		486,000 particles/ft ³ (17,200,000/m ³) @ 10% coincidence loss	4,860,000 particles/ft ³ (172,000,000/m ³) @ 10% coincidence loss	486,000 particles/ft ³ (17,200,000/m ³) @ 10% coincidence loss

FOR ALL MODELS

Light Source	Laser Diode	Status Indicator	Power, service, sampling and Ethernet
Laser Warranty	Five Years	Alarm Output	Normal open dry contact rated 0 to 60V AC/DC 1 Amp
Instrument Warranty	Two Years	Data Storage	250,000 sample records, 15 minutes of 1 second data
Calibration Frequency	One Year	Dimensions (HxWxD)	2.9 in. x 4.5 in. x 2.4 in. (7.4 cm x 11.4 cm x 6.1 cm)
Vacuum Source	External vacuum > 15 in. (38.1 cm) of Hg	Weight	1.3 lb (0.59 kg)
Communication	Ethernet (TCP/IP) Modbus RTU	Power	Power-over-Ethernet (PoE compliant with IEEE 802.3af) or 9-24 VDC
Wireless Option	LoRaWAN	Storage Range	14° to 122°F (-10° to 50°C) / Up to 98% noncondensing
External Surface	Stainless steel	Included Accessories	Power and alarm relay connector, operating manual and configuration utility on USB flash drive
Analog Output Options	3 Channels 4-20 mA output; 2 User selectable particle sizes-linear or log scale 1 Status channel	Optional Accessories	Power supply, isokinetic inlets, purge filter, sample tubing, vacuum tubing and remote mounting bracket
Standards	CE, JIS B9921, ISO 21501-4		
Operating Range	50° to 104°F (10° to 40°C) / 20% to 95% noncondensing		
Zero Count	<1 count / 5 minutes (<2 particles / ft ³) (per ISO 21501-4 and JIS)		
Sampling Frequency	1 second to 24 hours Standard sample period data collection plus parallel per second sampling to detect adverse trends		

NO INTERRUPTIONS.
NO DATA LOSS.
NO-HASSLE COMPLIANCE.
Complete facility monitoring systems offered by TSI.

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UNDERSTANDING, ACCELERATED

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