Knowledge Beyond Measure.

AeroTrak®+ Remote Airborne Particle Counters

7000 Series

Unmatched 5 Year Laser Warranty

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.

AeroTrak®+ Remote APCs 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.

Choose the right model for your needs

Model	Flow Rate	Channel Size Options	Recommended Manufacturing Application
7201	0.1 CFM (2.83 LPM)	0.2, 0.3 µm 0.2, 0.3, 0.5, 1.0 µm	Semiconductor
7301	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
7310	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
7501	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
7510	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

Features and 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
- Wireless enabled with minimal infrastructure—reducing installation costs and complexity
- 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

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.

Specifications

Aerotrak®+ Remote Airborne Particle Counters

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Specific Model Specifications

	7201	7301	7310	7501	7510
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
Laser Warranty	Five Years
Instrument Warranty	Two Years
Calibration Frequency	One Year
Vacuum Source	External vacuum > 15 in. (38.1 cm) of Hg
Communication	Ethernet (TCP/IP) Modbus RTU
Wireless Option	Wireless Option Available
External Surface	Stainless steel
Analog Output Options	3 Channels 4-20 mA output: 2 User selectable particle sizes-linear or log scale 1 Status channel
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 at the 95% UCL (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
Status Indicator	Power, service, sampling and Ethernet
Alarm Output	Normal open dry contact rated 0 to 60 V AC/DC 1 Amp
Data Storage	250,000 sample records, 15 minutes of 1 second data
Dimensions (HxWxD)	2.9 in. x 4.5 in. x 2.4 in (7.4 cm x 11.4 cm x 6.1 cm)
Weight	1.3 lb (0.59 kg)
Power	Power-over-Ethernet (PoE compliant with IEEE 802.3af) or 9-24 VDC
Storage Range	14° to 122°F (-10° to 50°C) / Up to 98% noncondensing
Included Accessories	Power and alarm relay connector, operating manual and configuration utility on USB flash drive
Optional Accessories	Power supply, isokinetic inlets, purge filter, sample tubing, vacuum tubing and remote mounting bracket
Suitability for Use	ISO Class 3 (0.1 µm)

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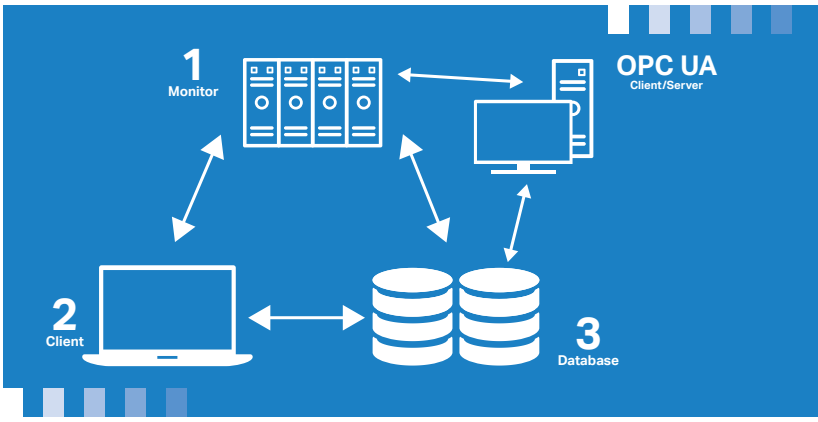

NO INTERRUPTIONS.
NO DATA LOSS.
NO-HASSLE COMPLIANCE.

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