Knowledge Beyond Measure.

AeroTrak®+ Remote Airborne Particle Counters with Pump

6000 Series

Unmatched 5 Year Laser Warranty

AeroTrak®+ Remote Airborne Particle Counters (APCs) with Pump are ideal for installation in locations that do not have external vacuum systems, typical to but not limited to electronics, semiconductor, and industrial facilities.

AeroTrak®+ Remote APCs reduce installation complexity and costs—without worry of data interruption or potential data loss—using internal vacuum pumps and long range wireless communication in facilities with limited infrastructure. With integrated pump, they are designed to be easily relocated as manufacturing layouts change or facilities redistribute resources or move locations.

Model	Flow Rate	Channel Size Options	Recommended Manufacturing Application
6201	0.1 CFM (2.83 LPM)	0.2, 0.3, 0.5, 1.0 µm	Semiconductor
6301	0.1 CFM (2.83 LPM)	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
6501	0.1 CFM (2.83 LPM)	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	Semiconductor, 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
- Wireless enabled with minimal infrastructure and built-in pump—reducing installation costs and complexity
- Identifies industry's widest range of particle sizes by way of available model options
- Ethernet or DC power options available
- Early-warning of adverse environmental trends with second-by-second monitoring
- Reliable operation with heavy industrial electrical immunity compliance
- Predictive instrument maintenance alerts
- Rapid setup and unit configuration using standard USB-C cable
- ISO 14644-14 suitability for use classified
- Sealed inlet prevents accidental ingress of cleaning solutions
- Advanced FMS driver auto discovers sensors reducing integration time

Have an External Vacuum System?

Check out AeroTrak+ Remote APCs—designed for use in facilities with external vacuum systems, typical to but not limited to electronics, semiconductor, and industrial facilities.

Specific Model Specifications

	6201	6301	6501
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)

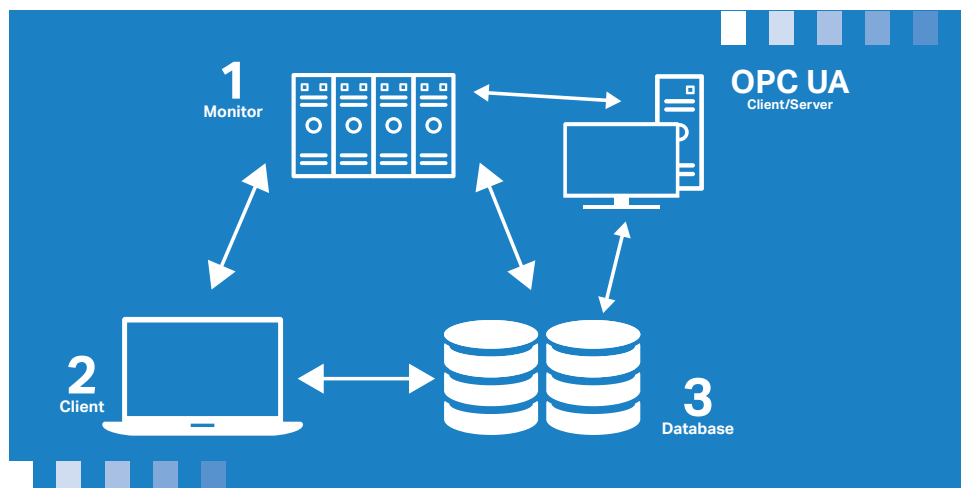## For All Models

Concentration Limit	4,860,000 particles/ft³ (172,000,000/m³) @ 10% coincidence loss	Sampling Frequency	1 second to 24 hours Standard sample period data collection plus parallel per second sampling to detect adverse trends
Light Source	Laser Diode	Status Indicator Ethernet	Power, service, sampling and
Laser Warranty	Five Years		
Instrument Warranty	Two Years	Alarm Output	Normal open dry contact rated 0 to 60 V AC/DC 1 Amp
Calibration Frequency	One Year		
Vacuum Source	Carbon Vane Pump, auto stops if flow blockage detected due inlet capping	Data Storage	250,000 sample records, 15 minutes of 1 second data
Communication	Ethernet (TCP/IP) Modbus RTU	Dimensions (HxWxD)	5.6 in. x 4.5 in. x 2.6 in. (14.2 cm x 11.4 cm x 6.6 cm)
Wireless Option	Wireless Option Available	Weight	2.3 lb (1.05 kg)
External Surface	Stainless steel	Power	Power-over-Ethernet (PoE+ compliant with IEEE 802.3at) or 12-24 VDC @ 30W
Analog Output Options	3 Channels 4-20 mA output: 2 User selectable particle sizes-linear or log scale		
Standards	CE, JIS B9921, ISO 21501-4	Storage Range	14° to 122°F (-10° to 50°C) / Up to 98% noncondensing
Operating Range	50° to 104°F (10° to 40°C) / 20% to 95% noncondensing	Included Accessories	Operating manual on USB flash drive
Zero Count	<1 count / 5 minutes at the 95% UCL (per ISO 21501-4 and JIS)	Optional Accessories	Power supply, isokinetic inlets, purge filter, sample tubing, vacuum tubing and remote mounting bracket
Sound Pressure Level	<50dB @ 1 meter distance - normal running conditions	Suitability for Use	ISO Class 3 (0.1 µm)

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

Complete facility monitoring systems offered by TSI®.

Learn more at www.tsi.com/reliablesystem

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