



® Knowledge Beyond Measure.™

AeroTrak® + Remote Airborne Particle Counters with Pump

6000 Series



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.

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—reducing installation costs and complexity
- Identifies 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
- Advance FMS driver auto discovers sensors reducing integration time

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

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.



Specifications

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	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)

Concentration Limit	4,860,000 particles/ft ³ (172,000,000/m ³) @ 10% coincidence loss
Light Source	Laser Diode
Laser Warranty	Five Years
Instrument Warranty	Two Years
Calibration Frequency	One Year
Vacuum Source	Carbon Vane Pump, auto stops if flow blockage detected die inlet capping
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 particles sizes-linear or log scale
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)
Sound Pressure Level	<50dB @ 1 meter distance - normal running conditions

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 60V AC/DC 1 Amp
Data Storage	250,000 sample records, 15 minutes of 1 second data
Dimensions (HxWxD)	5.6 in. x 4.5 in. x 2.6 in. (14.2 cm x 11.4 cm x 6.6 cm)
Weight	2.3 lb (1.05 kg)
Power	Power-over-Ethernet (PoE+ compliant with IEEE 802.3 at) or 12-24 VDC @ 30W
Storage Range	14° to 122°F (-10° to 50°C)/ Up to 98% non-condensing
Included Accessories	Operating manual on USB flash drive
Included Accessories	Power supply, isokinetic inlets, purge filter, sample tubing, vacuum tubing and remote mounting bracket
Suitability for Use	ISO Class 3 (0.1 µm)

