



CONTAMINATION CONTROL

Remote Particle Counters



Features and Benefits

- AERO TRAK 7201: 0.2 to 10 μm
- AERO TRAK 7301: 0.3 to 25 μm
- AERO TRAK 7501: 0.5 to 25 μm
- 0.1 CFM (2.83 L/min) flow rate
- Up to four channels of simultaneous data
- ISO 21501-4 Compliant
- Ethernet (TCP/IP) and serial Modbus RTU output
- Power-over-Ethernet (PoE) or local power
- 3,000 sample record storage
- Static or dynamic IP address (DHCP)
- Local or remote configuration via web browser
- RoHS Compliant
- Low outgassing and ionics using 3M™ Adhesive Technology
- Stainless steel enclosure
- Optional Temp/RH probe
- Optional external alarm output

AERO TRAK™ Remote Particle Counters Models 7201, 7301 & 7501

The TSI AERO TRAK 7201, 7301 and 7501 Remote Particle Counters offer the most features and flexibility out of any remote particle counter on the market today. Integration is easy using either Ethernet (TCP/IP) or serial Modbus RTU communications. The instrument can be powered over its Ethernet connection (Power-over-Ethernet) to simplify installation, or via a local power supply. Configuration can be done locally with a PC or via a web browser.

These particle counters can also store up to 3,000 sample records providing data redundancy. Each instrument reports up to four particle sizes simultaneously and other key information such as sensor status, date of last calibration, serial number and date of manufacture for easy warranty management.

Digital calibration allows for consistency when managing a large number of instruments. With the optional Temp/RH sensor, users can save cabling and powering a separate sensor into a monitoring or building automation system. Each TSI AERO TRAK Remote Particle Counter also includes an alarm output which allows its users to alarm directly from the particle counter.

Backed with a standard two-year warranty and TSI commitment for superior service and support, there is no other remote particle counter on the market today with such features and benefits.



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Specifications

Models 7201, 7301 & 7501

AEROTrAK Remote Particle Counters

	7201	7301	7501
Size Range	0.2 to 10 µm	0.3 to 25 µm	0.5 to 25 µm
Channel Sizes	Standard: 0.2, 0.3 µm Standard: 0.2, 0.5 µm Optional: 0.2, 0.3, 0.5, 1.0 µm Optional: 0.2, 0.3, 0.5, 2.0 µm Additional channel sizes available	Standard: 0.3, 0.5 µm Optional: 0.3, 0.5, 1.0, 5.0 µm Additional channel sizes available	Standard: 0.5, 5 µm Optional: 0.5, 1.0, 2.0, 5.0 µm Additional channel sizes available
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 Limits	500,000 particles/ft ³ at 5% coincidence loss	2,000,000 particles/ft ³ at 5% coincidence loss	2,000,000 particles/ft ³ at 5% coincidence loss
Light Source	Laser diode		
Zero Count Level	<1 count / 5 minutes (<2 particles / ft ³) (per ISO 21501-4 and JIS)		
Flow Rate	0.1 CFM (2.83 L/min) with ± 5% accuracy		
Calibration	NIST traceable using TSI calibration system		
Sample Time	1 second to 24 hours		
Vacuum Requirements	External vacuum > 15" (38.1 cm) of Hg		
Communication Mode	Ethernet (TCP/IP) and serial Modbus output		
Data Storage	3,000 sample records		
Status Indicators	Power, service, counting and Ethernet		
External Alarm Output	Normal open dry contact rated 0 to 60 V AC/DC 1 Amp		
Environmental Sensors	Optional Temp/RH probe 32° to 113°F (0° to 45°C) ± 2°F (1°C); 10 to 90% RH ±5%		
External Surface	Stainless steel		
Power	Power-over-Ethernet (PoE compliant with IEEE 802.3af) or 12 VDC		
Dimensions (L x W x H)	4.5 in. x 1.6 in. x 2.8 in. (11.5 cm x 4.1 cm x 7.2 cm)		
Weight	0.95 lb (0.43 kg)		
Standards	CE, JIS B9921, ISO 21501-4		
Warranty	Two years. Extended warranties available		
Operating Conditions	50° to 104°F (10° to 40°C) / 20% to 95% noncondensing		
Storage Conditions	14° to 122°F (-10° to 50°C) / Up to 98% noncondensing		
Included Accessories	Operating manual on CD		
Optional Accessories	Power supply, isokinetic inlets, purge filter, Temp/RH probe, alarm cable, sample tubing, vacuum tubing, data cable and remote mounting bracket		

Specifications are subject to change without notice.

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