AEROTRAK® REMOTE
PARTICLE COUNTERS
MODELS 7310 & 7510

The TSI AeroTrak® 7310 and 7510 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 laser current, background light level, 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 AeroTrak Remote Particle Counter also includes an alarm output which allows users to alarm directly from the particle counter.
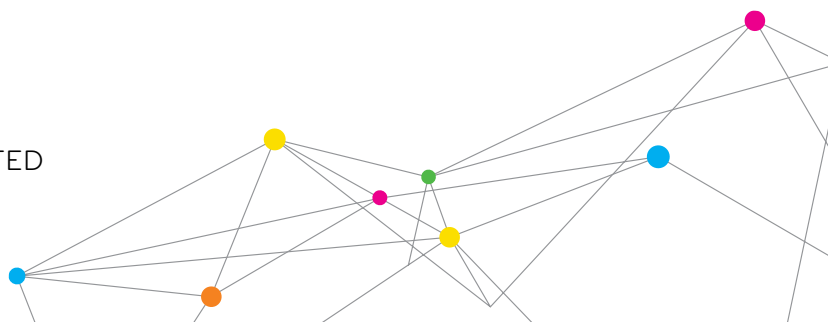
Backed with a standard two-year warranty and TSI commitment for superior service and support, there is no other remote particle counter on the market today with such features and benefits.

Features and Benefits
+ AeroTrak 7310: 0.3 to 25 µm
+ AeroTrak 7510: 0.5 to 25 µm
+ 1 CFM (28.3 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
+ Smallest remote particle counter in the market (0.3 µm @ 1 CFM)

UNDERSTANDING, ACCELERATED

SPECIFICATIONS

	7310	7510
Size Range	0.3 to 25 µm	0.5 to 25 µm
Channel Sizes	Standard: 0.3, 0.5 µm Optional: 0.3, 0.5, 0.7, 1.0 µm Optional: 0.3, 0.5, 1.0, 5.0 µm Additional channel sizes available	Standard: 0.5, 5.0 µm Optional: 0.5, 0.7, 1.0, 5.0 µm Additional channel sizes available
Counting Efficiency	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	128,000 particles / ft³ (4,500,000/m³) @ 10% coincidence loss	340,000 particles / ft³ (12,000,000/m³) @ 10% coincidence loss
Light Source	Laser diode	
Zero Count Level	<1 count / 5 minutes (<2 particles / ft³) (per ISO 21501-4 and JIS)	
Flow Rate	1 CFM (28.3 LPM) with ± 5% accuracy	
Calibration	NIST traceable using TSI calibration system	
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, sampling 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% non-condensing	
Storage Conditions	14° to 122°F (-10° to 50°C) / Up to 98% non-condensing	
Included Accessories	Operating manual on CD	

Specifications are subject to change without notice.

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