



® Knowledge Beyond Measure.

AeroTrak® Portable Particle Counters

Models 9350 and 9550



The TSI AeroTrak® 9350 and 9550 Portable Particle Counters offer best-in-class features and versatility.

The AeroTrak® Portable Particle Counters provide a 1.77 CFM (50 L/min) flow with 0.3 or 0.5 μm sensitivity. Compatible with TSI's accurate ventilation probes that measure air velocity/temperature/RH, these products provide you with a complete solution for your certification needs. Particle count data can be conveniently viewed on screen, downloaded using TrakPro™ Lite Secure Software, or printed directly to the integrated printer.

They can generate pass/fail reports for ISO 14644-1, EU GMP Annex 1, and FS209E, via the onboard printer and the supplied TrakPro™ Lite Secure Download Software. Multiple particle counter configurations can be conveniently stored and uploaded as needed. These products can be used as a stand-alone particle counter or integrated into a facility monitoring system like TSI's FMS 5.

Both Models 9350 and 9550 comply with all the stringent requirements set forth in ISO 21501-4. These particle counters are calibrated with NIST traceable PSL spheres using TSI's world-class classifier and condensation particle counters, the recognized standard for particle measurements. Backed with a standard two year warranty and TSI's long-standing reputation for high quality, there are no other particle counters like it on the market today.

Features and Benefits

- AeroTrak 9350 Particle Counter: 0.3 to 25 μm
- AeroTrak 9550 Particle Counter: 0.5 to 25 μm
- Up to six channels of simultaneous data
- 1.77 CFM (50 L/min) flow rate
- Complies with all requirements of ISO 21501-4
- Data storage: 250 zones, 999 locations, and 10,000 samples
- USB, USB Storage Device and Ethernet data transfer
- Industry's loudest audible alarm
- Easy icon-driven touch screen operation
- Onboard reports for ISO-14644-1, EU GMP Annex 1, and FS209E
- External certification reports via TrakPro™ Lite Secure Software
- Barcode scanner supports recall of specific Recipe and Zone configurations
- Displays up to three environmental parameters
- Stainless steel enclosure
- Lightweight
- Battery life provides for >6 hours of continuous operation



Specifications

AeroTrak® Portable Particle Counters

Models 9350 and 9550

9350 and 9550		
Size Range	9350-02, 9350-03: 0.3 to 25 µm	9550-02: 0.5 to 25 µm
Particle Channel Sizes	9350-02: 0.3, 0.5, 1.0, 2.0, 3.0, 5.0 µm; 9350-03: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm	9550-02: 0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm
Size Resolution	9350-02, 9350-03: <15% @ 0.5 µm (per ISO 21501-4)	9550-02: <15% @ 0.5 µm (per ISO 21501-4)
Counting Efficiency	9350-02, 9350-03: 50% at 0.3 µm; 100% for particles >0.45 µm (per ISO 21501-4 and JIS)	9550-02: 50% at 0.5 µm; 100% for particles >0.75 µm (per ISO 21501-4 and JIS)
Concentration Limit	710,000 particles/ft ³ (25,000,000/m ³) @ 10% coincidence loss	
Light Source	Long life laser diode	
Zero Count	<1 count per 5 minutes (per ISO 21501-4 and JIS B9921)	
Flow Rate	1.77 CFM (50 L/min) ±5% accuracy (meets ISO 21501-4 and JIS B9921)	
Flow Rate Control	Electronic, automatic closed loop (patented* flow control technology)	
Sample Tube Extension	Up to 39.4 ft (12 m)	
Sampling Modes	Manual, automatic, beep; cumulative/differential; count or concentration	
Sampling Time	1 second to 99 hours	
Sampling Frequency	1 to 9999 cycles or continuous	
Exhaust	Internally HEPA filtered	
Vacuum Source	Internal pump	
Communication Mode	Modbus® TCP over Ethernet or USB	
Audible Alarm	Built-in; >85 dB at 1 meter (adjustable)	
Status Indicators	Low battery, flow, laser	
Alarm Output	Dry contacts, closed when alarm is engaged	
Alarm Limits	Programmable for all particle channels	
Display	VGA 5.7-inch (14.5-cm) touch screen display	
Languages	English, German, French, Spanish, Japanese, Chinese (simplified), Italian	

*Patent Numbers 6,167,107

Specifications are subject to change without notice.

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Modbus is a registered trademark of Modicon, Inc.

Software	Compatible with TrakPro™ Lite Secure and FMS 5 Software
Printer	Built-in thermal printer (also available without printer)
Printer Output	Prints in all available languages
Environmental Sensor Interface	Supports TSI® Probe Models: 960, 962, 964, 966 (air velocity/temp/RH) and Temp/RH probe
Unit ID	Configurable IP address
Security	2-level password protection to lock out usage and configuration
Data Storage	250 Zones
	999 Locations
	10,000 sample records including: date, time, six total particle size channels, flow status, and instrument status
Data Transfer	Via USB storage device, connection to the TrakPro™ Lite Secure Software through Ethernet or USB cable, or optional TSI® FMS Software
Reports	Provides Pass/Fail on ISO 14644-1, EU GMP, and FS209E reports
Calibration	NIST traceable using TSI® calibration system
Calibration Frequency	Recommended minimum of once per year
Dimension (H x W x D)	9.5 in. x 9.0 in. x 9.2 in. (24.1 cm x 23.0 cm x 23.2 cm) (without isokinetic inlet)
Weight	14.2 lbs (6.44 kg) with two batteries
Power	110 to 240 VAC universal power supply
Battery	Removable/rechargeable Li-Ion batteries (2 battery slots)
Battery Life	>6 hours of continuous operation
Battery Recharge	5 hours (when idle)
External Surface	Stainless steel
Operating Range	36° to 95° F (2° to 35° C), 20% to 95% RH non-condensing
Storage Range	32° to 122° F (0° to 50° C), up to 98% RH non-condensing
Standards	ISO 21501-4, CE, JIS B9921
Warranty	Two years
Included Accessories	Online operating manual, power supply, battery, barbed inlet, isokinetic probe, tubing, purge filter, printer paper, USB cable, and TrakPro™ Lite Secure Software

Optional Accessories	Electronic filter scanning probe, basic filter scanning probe, TSI velocity probes, Temp/RH probe, additional battery, dual port external battery charger, isokinetic probes, sample tubing, carrying case
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