



Portable Particle Counters



Features and Benefits

- ο 0.5 to 25 µm size range
- Up to six channels of simultaneous data
- o 3.53 CFM (100 L/min) flow rate
- Complies with all requirements of ISO 21501-4
- Best choice for filter testing in clean rooms
- o 10,000 sample record storage, 999 locations
- Ethernet and USB outputs
- o Industry's loudest audible alarm
- Easy icon-driven touch screen operation
- o Reports for ISO-14644-1, EU GMP Annex 1, and FS209E
- Allows storage and recall of specific tests/recipes
- o Displays up to three environmental parameters
- o Stainless steel enclosure
- o Lightweight
- o Stand-alone or integrate into a facility monitoring system
- Clean room classification down to ISO Class 2

AEROTRAK[™] Portable Particle Counter Model 9500

The TSI AEROTRAK[™] 9500 Portable Particle Counter offers bestin-class features and versatility. Perform ISO 14644-1 classifications and complete certifications of EU GMP facilities by sampling 1 m³ of air in just 10 minutes! Compatible with TSI's accurate ventilation probes that measure air velocity/ temperature/RH, the Model 9500 is a complete solution for your certification needs. The combination of an optional electronic filter scanner with up to 26 ft of tubing, make this the best instrument for in-place filter testing.

This particle counter can generate pass/fail reports for ISO 14644-1, EU GMP Annex 1, and FS209E. It can be used as a stand-alone particle counter or integrated into a facility monitoring system like TSI's FMS 5.

The Model 9500 complies with all the stringent requirements set forth in ISO 21501-4. It is 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.



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Specifications

Model 9500 AERoTRAK[™] Portable Particle Counter

Features	9500		
Size Range	0.5 to 25 μm		
Particle Channel Sizes	0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm (additional channel sizes available)		
Size Resolution	<15% @ 0.5 μm (ISO 21501-4)		
Counting Efficiency	50% at 0.5 $\mu m,$ 100% for particles $>$ 0.75 μm (per ISO 21501-4 and JIS)		
Concentration Limit	>100,000/ft ³ at 5% coincidence loss		
Light Source	Long life laser diode		
Zero Count	<1 count per 5 minutes (per ISO 21501-4 and JIS B9921)		
Flow Rate	3.53 CFM (100 L/min) $\pm 5\%$ accuracy (meets ISO 21501-4 and JIS B9921)		
Flow Rate Control	Electronic, automatic closed loop (patented* flow control technology)		
Sample Tube Extension	Up to 26.2 ft (8 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	Internal HEPA filter		
Vacuum Source	Internal pump		
Communication Mode	Modbus® TCP over Ethernet or USB		
Data Storage	10,000 sample records: includes date, time, six particle channels, flow, ID, and sample volume; transferable via USB data download or TRAKPRoTM Lite software		
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		
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		

Features	9500	
Software	Compatible with TRAKPRo [™] Lite and FMS 5 software	
Unit ID	Configurable IP address	
Security	2-level password protection to lock out usage and configuration	
Location ID	Up to 999 Locations; 16 characters long	
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-lon batteries (2 battery slots)	
Battery Life	>2 hours of continuous operation	
Battery Recharge	4 hours (when idle)	
External Surface	Stainless steel	
Operating Range	41°to 95°F (5° to 35°C), 20% to 95% noncondensing	
Storage Range	32° to 122°F (0° to 50°C), up to 98% RH noncondensing	
Standards	ISO 21501-4, CE, JIS B9921	
Warranty	Two years, extended warranties available	
Included Accessories	Printed QuickStart guide, operating manual on CD, power supply, battery, barbed inlet, isokinetic probe, tripod, tubing, purge filter, printer paper, USB cable and TRakPRo™ Lite 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, isokinetic inlets, sample tubing, carrying case	

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*Patent Number 6,167,107

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TSI Incorporated - 500 Cardigan Road, Shoreview, MN 55126-3996 USA						
USA	Tel: +1 800 874 2811	E-mail: info@tsi.com	Website: www.tsi.com			
UK	Tel: +44 149 4 459200	E-mail: tsiuk@tsi.com	Website: www.tsiinc.co.uk			
France	Tel: +33 491 11 87 64	E-mail: tsifrance@tsi.com	Website: www.tsiinc.fr			
Germany	Tel: +49 241 523030	E-mail: tsigmbh@tsi.com	Website: www.tsiinc.de			
India	Tel: +91 80 41132470	E-mail: tsi-india@tsi.com				
China	Tel: +86 10 8251 6588	E-mail: tsibeijing@tsi.com				
Singapore	Tel: +65 6595 6388	E-mail: tsi-singapore@tsi.com				

Contact your local TSI Distributor or visit our website www.tsi.com for more detailed specifications.

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