



Portable Particle Counters



Features and Benefits

- 0.5 to 25 μm size range
- Up to six channels of simultaneous data
- o 100 L/min flow rate
- o Complies with all requirements of ISO 21501-4
- o Best choice for filter testing in clean rooms
- 10,000 sample record storage, 999 locations
- o Ethernet and USB outputs
- o Industry's loudest audible alarm
- o Easy icon-driven touch screen operation
- o Reports for ISO-14644-1, EU GMP Annex 1, and FS209E
- o Allows storage and recall of specific tests/recipes
- o Displays up to three environmental parameters
- o Stainless steel enclosure
- o Lightweight
- 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 AeroTrakTM 9500 Portable Particle Counter offers best-in-class features and versatility. Perform ISO 14644-1 classifications and complete certifications of EU GMP facilities by sampling 1 $\rm m^3$ 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 8 m 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.



Portable Particle Counters

Specifications

Model 9500

AEROTRAKTM **Portable Particle Counter**

9500
0.5 to $25~\mu m$
0.5, 0.7, 1.0, 3.0, 5.0, 10.0 μm (additional channel sizes available)
<15% @ 0.5 μm (ISO 21501-4)
50% at $0.5~\mu m$, 100% for particles $>0.75~\mu m$ (per ISO 21501-4 and JIS)
$>$ 100,000/ft 3 at 5% coincidence loss
Long life laser diode
<1 count per 5 minutes (per ISO 21501-4 and JIS B9921)
100 L/min ±5% accuracy (meets ISO 21501-4 and JIS B9921)
Electronic, automatic closed loop (patented* flow control technology)
Up to 8 m
Manual, automatic, beep; cumulative/differential; count or concentration
1 second to 99 hours
1 to 9999 cycles or continuous
Internal HEPA filter
Internal pump
Modbus® TCP over Ethernet or USB
10,000 sample records: includes date, time, six particle channels, flow, ID, and sample volume; transferable via USB data download or $_{\mbox{\scriptsize TRAKPRO^{TM}}}$ Lite software
Built-in; >85 dB at 1 meter (adjustable)
Low battery, flow, laser
Dry contacts, closed when alarm is engaged
Programmable for all particle channels
VGA 14.5-cm touch-screen display
English, German, French, Spanish, Japanese, Chinese (simplified), Italian
Built-in thermal printer (also available without printer)
Prints in all available languages
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)	24.1 cm x 23.0 cm x 23.2 cm (without isokinetic inlet)
Weight	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	>2 hours of continuous operation
Battery Recharge	4 hours (when idle)
External Surface	Stainless steel
Operating Range	5° to 35°C, 20% to 95% noncondensing
Storage Range	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 TRAKPROTM 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

*Patent Number 6,167,107

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