



Features and Benefits

- AeroTrak™ 9310 particle counter: 0.3 to 25 µm
- AEROTrak™ 9510 particle counter: 0.5 to 25 µm
- Up to six channels of simultaneous data
- 28.3 L/min (1.0 CFM) flow rate
- Complies with all requirements of ISO 21501-4
- 10,000 sample record storage, 999 locations
- Ethernet and USB outputs
- Industry's loudest audible alarm
- Easy icon-driven touch screen operation
- Reports for ISO-14644-1, EU GMP Annex 1, and FS209E
- Allows storage and recall of specific tests/recipes
- Displays up to three environmental parameters
- Stainless steel enclosure
- Lightweight
- Stand-alone or integrate into a facility monitoring system
- Clean room classification down to ISO Class 2

AEROTrak™ Portable Particle Counter Models 9310 & 9510

The TSI AEROTrak™ 9310 and 9510 Portable Particle Counters offer best-in-class features and versatility. They provide a 28.3 L/min (1.0 CFM) 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.

These particle counters can generate pass/fail reports for ISO 14644-1, EU GMP Annex 1, and FS209E. 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 9310 and 9510 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.



Specifications

Models 9310 & 9510

AERO TRAK™ Portable Particle Counter

| Features | 9310 & 9510 | |
|------------------------|---|---|
| Size Range | 9310-02 9310: 0.3 to 25 µm | 9510-02 9510: 0.5 to 25 µm |
| Particle Channel Sizes | 9310-02: 0.3, 0.5, 1.0, 3.0, 5.0, 10 µm, additional channel sizes available | 9510-02: 0.5, 0.7, 1.0, 3.0, 5.0, 10 µm, additional channel sizes available |
| Size Resolution | 9310-02: <15% @ 0.5 µm (per ISO 21501-4) | 9510-02: <15% @ 0.5 µm (per ISO 21501-4) |
| Counting Efficiency | 9310-02: 50% at 0.3 µm; 100% for particles >0.45 µm (per ISO 21501-4 and JIS) | 9510-02: 50% at 0.5 µm; 100% for particles >0.75 µm (per ISO 21501-4 and JIS) |
| Concentration Limit | >400,000/ft. 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 | 28.3 L/min (1.0 CFM) ±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 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 | 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 storage device or TRAKPRO™ 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 14.5-cm touch screen display | |
| Languages | English, German, French, Spanish, Japanese, Chinese (simplified), Italian | |

| Features | 9310 & 9510 |
|--------------------------------|---|
| Software | Compatible with TRAKPRO™ Lite 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 |
| 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 | 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 | >4 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 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 |

*Patent Number 6,167,107

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



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.