The AeroTrak® Portable Particle Counters offer best-in-class features and versatility. They 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.

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.
### Specifications

#### AEROTRAK PORTABLE PARTICLE COUNTERS
**Models 9350 & 9550**

<table>
<thead>
<tr>
<th>Feature</th>
<th>9350-02</th>
<th>9550-02</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size Range</strong></td>
<td>9350: 0.3 to 25 µm</td>
<td>9550: 0.5 to 25 µm</td>
</tr>
<tr>
<td><strong>Particle Channel Sizes</strong></td>
<td>9350-02: 0.3, 0.5, 1.0, 2.0, 3.0, 5.0 µm, additional channel sizes available</td>
<td>9550-02: 0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm, additional channel sizes available</td>
</tr>
<tr>
<td><strong>Size Resolution</strong></td>
<td>9350-02: &lt;15% @ 0.5 µm (per ISO 21501-4)</td>
<td>9550-02: &lt;15% @ 0.5 µm (per ISO 21501-4)</td>
</tr>
<tr>
<td><strong>Counting Efficiency</strong></td>
<td>9350-02: 50% at 0.3 µm; 100% for particles &gt;0.45 µm (per ISO 21501-4 and JIS)</td>
<td>9550-02: 50% at 0.5 µm; 100% for particles &gt;0.75 µm (per ISO 21501-4 and JIS)</td>
</tr>
<tr>
<td><strong>Concentration Limit</strong></td>
<td>&gt;708,000 particles/ft³ (25,000,000/m³) at 10% coincidence loss</td>
<td></td>
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<tr>
<td><strong>Light Source</strong></td>
<td>Long life laser diode</td>
<td></td>
</tr>
<tr>
<td><strong>Zero Count</strong></td>
<td>&lt;1 count per 5 minutes (per ISO 21501-4 and JIS B9921)</td>
<td></td>
</tr>
<tr>
<td><strong>Flow Rate</strong></td>
<td>1.77 CFM (50 L/min) ±5% accuracy (meets ISO 21501-4 and JIS B9921)</td>
<td></td>
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<tr>
<td><strong>Sample Tube Extension</strong></td>
<td>Up to 39.4 ft (12 m)</td>
<td></td>
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<tr>
<td><strong>Sampling Modes</strong></td>
<td>Manual, automatic, beep; cumulative/differential; count or concentration</td>
<td></td>
</tr>
<tr>
<td><strong>Sampling Time</strong></td>
<td>1 second to 99 hours</td>
<td></td>
</tr>
<tr>
<td><strong>Sampling Frequency</strong></td>
<td>1 to 9999 cycles or continuous</td>
<td></td>
</tr>
<tr>
<td><strong>Exhaust</strong></td>
<td>Internally HEPA filtered</td>
<td></td>
</tr>
<tr>
<td><strong>Vacuum Source</strong></td>
<td>Internal pump</td>
<td></td>
</tr>
<tr>
<td><strong>Communication Mode</strong></td>
<td>Modbus® TCP over Ethernet or USB</td>
<td></td>
</tr>
<tr>
<td><strong>Audible Alarm</strong></td>
<td>Built-in; &gt;85 dB at 1 meter (adjustable)</td>
<td></td>
</tr>
<tr>
<td><strong>Status Indicators</strong></td>
<td>Low battery, flow, laser</td>
<td></td>
</tr>
<tr>
<td><strong>Alarm Output</strong></td>
<td>Dry contacts, closed when alarm is engaged</td>
<td></td>
</tr>
<tr>
<td><strong>Alarm Limits</strong></td>
<td>Programmable for all particle channels</td>
<td></td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>VGA 5.7-inch (14.5-cm) touch screen display</td>
<td></td>
</tr>
<tr>
<td><strong>Languages</strong></td>
<td>English, German, French, Spanish, Japanese, Chinese (simplified), Italian</td>
<td></td>
</tr>
</tbody>
</table>

*Patent Number 6,167,107

Specifications are subject to change without notice.

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Modbus is a registered trademark of Modicon, Inc.

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**Software**
Compatible with TrakPro™ Lite, 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

**Data Storage**
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**
>3 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% RH 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 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