

AEROTRAK® REMOTE PARTICLE COUNTERS MODELS 7310 & 7510



The TSI AeroTrak® 7310 and 7510 Remote Particle Counters offer the most features and flexibility out of any remote particle counter on the market today. Integration is easy using either Ethernet (TCP/IP) or serial Modbus RTU communications. The instrument can be powered over its Ethernet connection (Power-over-Ethernet) to simplify installation, or via a local power supply. Configuration can be done locally with a PC or via a web browser.

These particle counters can also store up to 3,000 sample records providing data redundancy. Each instrument reports up to four particle sizes simultaneously and other key information such as laser current, background light level, date of last calibration, serial number and date of manufacture for easy warranty management.

Digital calibration allows for consistency when managing a large number of instruments. With the optional Temp/RH sensor, users can save cabling and powering a separate sensor into a monitoring or building automation system. Each TSI AeroTrak Remote Particle Counter also includes an alarm output which allows users to alarm directly from the particle counter.

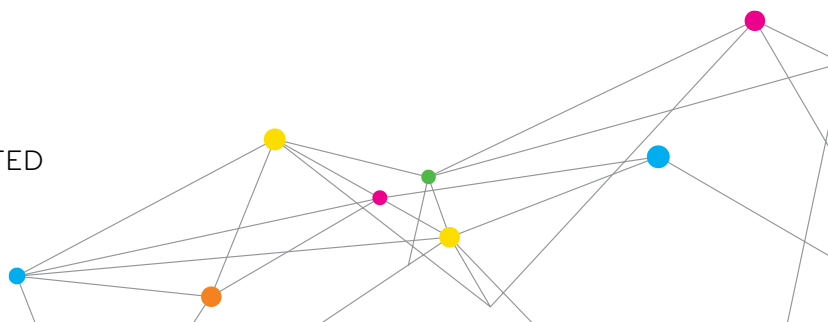
Backed with a standard two-year warranty and TSI commitment for superior service and support, there is no other remote particle counter on the market today with such features and benefits.

Features and Benefits

- + AeroTrak 7310: 0.3 to 25 μm
- + AeroTrak 7510: 0.5 to 25 μm
- + 1 CFM (28.3 L/min) flow rate
- + Up to four channels of simultaneous data
- + ISO 21501-4 Compliant
- + Ethernet (TCP/IP) and serial Modbus RTU output
- + Power-over-Ethernet (PoE) or local power
- + 3,000 sample record storage
- + Static or dynamic IP address (DHCP)
- + Local or remote configuration via web browser
- + RoHS Compliant
- + Low outgassing and ionics using 3M™ Adhesive Technology
- + Stainless steel enclosure
- + Optional Temp/RH probe
- + Optional external alarm output
- + Smallest remote particle counter in the market (0.3 μm @ 1 CFM)



UNDERSTANDING, ACCELERATED



SPECIFICATIONS

AEROTRAK® REMOTE PARTICLE COUNTERS MODELS 7310 & 7510

| | 7310 | 7510 |
|------------------------|---|--|
| Size Range | 0.3 to 25 µm | 0.5 to 25 µm |
| Channel Sizes | Standard: 0.3, 0.5 µm Optional: 0.3, 0.5, 0.7, 1.0 µm Optional: 0.3, 0.5, 1.0, 5.0 µm Additional channel sizes available | Standard: 0.5, 5.0 µm Optional: 0.5, 0.7, 1.0, 5.0 µm Additional channel sizes available |
| Counting Efficiency | 50% at 0.3 µm; 100% for particles > 0.45 µm (per ISO 21501-4 and JIS) | 50% at 0.5 µm; 100% for particles > 0.75 µm (per ISO 21501-4 and JIS) |
| Concentration Limits | 128,000 particles / ft³ (4,500,000/m³) @ 10% coincidence loss | 340,000 particles / ft³ (12,000,000/m³) @ 10% coincidence loss |
| Light Source | Laser diode | |
| Zero Count Level | <1 count / 5 minutes (<2 particles / ft³) (per ISO 21501-4 and JIS) | |
| Flow Rate | 1 CFM (28.3 LPM) with ± 5% accuracy | |
| Calibration | NIST traceable using TSI calibration system | |
| Vacuum Requirements | External vacuum > 15" (38.1 cm) of Hg | |
| Communication Mode | Ethernet (TCP/IP) and serial Modbus output | |
| Data Storage | 3,000 sample records | |
| Status Indicators | Power, service, sampling and Ethernet | |
| External Alarm Output | Normal open dry contact rated 0 to 60 V AC/DC 1 Amp | |
| Environmental Sensors | Optional Temp/RH probe 32° to 113°F (0° to 45°C) ± 2°F (1°C); 10 to 90% RH ±5% | |
| External Surface | Stainless steel | |
| Power | Power-over-Ethernet (PoE compliant with IEEE 802.3af) or 12 VDC | |
| Dimensions (L x W x H) | 4.5 in. x 1.6 in. x 2.8 in. (11.5 cm x 4.1 cm x 7.2 cm) | |
| Weight | 0.95 lb (0.43 kg) | |
| Standards | CE, JIS B9921, ISO 21501-4 | |
| Warranty | Two years. Extended warranties available | |
| Operating Conditions | 50° to 104°F (10° to 40°C) / 20% to 95% non-condensing | |
| Storage Conditions | 14° to 122°F (-10° to 50°C) / Up to 98% non-condensing | |
| Included Accessories | Operating manual on CD | |

Specifications are subject to change without notice.

AeroTrak, TSI, and the TSI logo are registered trademarks of TSI Incorporated.

3M is a trademark of 3M Company.



UNDERSTANDING, ACCELERATED

TSI Incorporated - Visit our website www.tsi.com for more information.

| | | | |
|----------------|-------------------------------|------------------|------------------------------|
| USA | Tel: +1 800 874 2811 | India | Tel: +91 80 67877200 |
| UK | Tel: +44 149 4 459200 | China | Tel: +86 10 8219 7688 |
| France | Tel: +33 1 41 19 21 99 | Singapore | Tel: +65 6595 6388 |
| Germany | Tel: +49 241 523030 | | |



PMT (GB) Limited
Willow End Park
Malvern
WR13 6NN
United Kingdom

Tel: 01684 312950
E-mail: info@pmtgb.com
Web: www.pmtgb.com
Shop: www.pmtgbshop.com