



Features and Benefits

- AERO TRAK 7201: 0.2 to 10 μm
- AERO TRAK 7301: 0.3 to 25 μm
- AERO TRAK 7501: 0.5 to 25 μm
- 0.1 CFM (2.83 LPM) flow rate
- Up to 4 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

AERO TRAK™ Remote Particle Counters Models 7201, 7301 & 7501

The TSI AERO TRAK 7201, 7301 and 7501 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 4 particle sizes simultaneously and other key information such as sensor status, 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 AERO TRAK Remote Particle Counter also includes an alarm output which allows its users to alarm directly from the particle counter.

Backed with a standard 2-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.



Specifications

Models 7201, 7301 & 7501

AEROTrAK Remote Particle Counters

| | 7201 | 7301 | 7501 |
|------------------------|--|--|--|
| Size Range | 0.2 to 10 µm | 0.3 to 25 µm | 0.5 to 25 µm |
| Channel Sizes | Standard: 0.2, 0.3 µm Standard: 0.2, 0.5 µm Optional: 0.2, 0.3, 0.5, 1.0 µm Optional: 0.2, 0.3, 0.5, 2.0 µm Additional channel sizes available | Standard: 0.3, 0.5 µm Optional: 0.3, 0.5, 1.0, 5.0 µm Additional channel sizes available | Standard: 0.5, 5 µm Optional: 0.5, 1.0, 2.0, 5.0 µm Additional channel sizes available |
| Counting Efficiency | 50% at 0.2 µm; 100% for particles > 0.3 µm (per JIS) | 50% at 0.3 µm; 100% for particles > 0.45 µm (per JIS) | 50% at 0.5 µm; 100% for particles > 0.75 µm (per JIS) |
| Concentration Limits | 500,000 particles/ft ³ at 5% coincidence loss | 2,000,000 particles/ft ³ at 5% coincidence loss | 2,000,000 particles/ft ³ at 5% coincidence loss |
| Light Source | Laser diode | | |
| Zero Count Level | <1 count / 5 minutes (<2 particles / ft ³) Meets JIS B9921 | | |
| Flow Rate | 0.1 CFM (2.83 LPM) with ± 5% accuracy | | |
| Calibration | NIST traceable | | |
| Sample Time | 1 second to 24 hours | | |
| 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, counting 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 | 2 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 | | |
| Optional Accessories | Power supply, isokinetic inlets, purge filter, Temp/RH probe, alarm cable, sample tubing, vacuum tubing, data cable and remote mounting bracket | | |

Specifications are subject to change without notice.

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