



Features and Benefits

- Complies with all requirements of ISO 21501-4
- 0.3 to 25 μm size range
- 0.1 CFM (2.83 L/min) flow rate
- Measures up to six channels of simultaneous data
- Model 9306-V2 provides unique variable binning option
- Integrated handle for one hand operation
- Removable, rechargeable Li-ion battery
- Long life laser diode
- USB and Ethernet output
- 10,000 sample record storage, 250 locations
- Local or remote configuration via web browser
- Provides Pass/Fail reporting on ISO 14644-1, EU GMP, and FS209E
- Compatible with TRAKPro™ Lite and FMS 5 software packages
- Optional Temperature/RH sensor available

AEROtrak™ Handheld Particle Counter Model 9306

The TSI AEROtrak™ 9306 Handheld Particle Counter offers the most features and flexibility for customers interested in versatile handheld particle contamination monitoring. The Model 9306 features an ergonomic handle with thumb controls, for easy one-hand operation. The 3.6-inch (9.1-cm) color touch screen interface makes it easy to configure and operate. The Model 9306 can generate Pass/Fail reports for ISO 14644-1, EU GMP Annex 1, and FS209E. The internal memory can store up to 10,000 sample records of particle count data which can be conveniently viewed on screen, downloaded using TRAKPro™ Lite Software, or printed directly to an optional external printer.

The Model 9306 complies 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 handheld particle counters like it on the market today.



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Specifications

Model 9306

AEROTrak™ Handheld Particle Counter

| Features | 9306 |
|------------------------|---|
| Size Range | 0.3 to 25 µm |
| Particle Channel Sizes | 9306-03: 0.3, 0.5, 0.7, 1.0, 2.0, 5.0 µm 9306-04: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm 9306-V2: 0.3 to 10 µm, user-selectable; factory-calibrated at 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm |
| Size Resolution | <15% @ 0.5 µm (per ISO 21501-4 requirements) |
| Counting Efficiency | 50% at 0.3 µm; 100% for particles >0.45 µm (per ISO 21501-4 and JIS) |
| Concentration Limit | >2,000,000 particles/ft ³ 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 | 0.1 CFM (2.83 L/min) with ±5% accuracy (meets ISO 21501-4 and JIS requirements) |
| Flow Rate Control | Electronic, automatic closed loop (patented* flow control technology) |
| Calibration | NIST Traceable with TSI calibration system |
| Calibration Frequency | Recommended minimum once per year |
| 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 | Internally filtered |
| Communication Mode | Modbus® RTU over Ethernet or USB |
| Data Storage | 10,000 sample records: includes date, time, six particle channels, flow, ID, and sample volume; transferable via USB data download or TrakPro™ Lite software |
| Alarm Status | Audible alarm on counts |
| Status Indicators | Low battery, flow, laser |
| Environmental Sensors | Optional Temp/RH probe |
| Display | QVGA 3.6-inch (9.1-cm) touch screen |
| Reports | Provides Pass/Fail on ISO 14644-1, EU GMP, and FS209E reports |

| Features | 9306 |
|-----------------------|---|
| 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 |
| Languages | English, Japanese, German, French, Spanish, and Chinese (simplified), Italian |
| Software | Compatible with TrakPro™ Lite and FMS 5 Software |
| External Surface | High Impact injection molded plastic |
| Dimension (H x W x D) | 9.4 in. x 4.6 in. x 4.9 in. (23.9 cm x 11.7 cm x 12.4 cm) (without isokinetic inlet, includes handle) |
| Weight | 2.2 lb (1.0 kg) with battery |
| Power | 110 to 240 VAC, 50 to 60 Hz universal in-line power supply |
| Battery | Removeable/rechargeable Li-Ion |
| Battery Life | >6 hours of continuous use |
| Recharge Time | <2 hours |
| Standards | ISO 21501-4, CE, JIS B9921 |
| Warranty | Two years, extended warranties available |
| Operating Range | 41° to 95°F (5° to 35°C), 20% to 95% noncondensing |
| Storage Range | 32° to 122°F (0° to 50°C), up to 98% RH noncondensing |
| Included Accessories | Operating manual on CD, power supply, battery, isokinetic inlet, purge filter, stylus, USB cable and TrakPro™ Lite software |
| Optional Accessories | Spare Battery, external battery charger, isokinetic probe, sample tubing, Temp/RH probe, printer, printer paper and carrying case |

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