



® Knowledge Beyond Measure.

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 3.5-inch (8.9-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. Particle count data can be conveniently viewed on screen, downloaded using TrakPro™ Lite Secure Software, or printed directly to an optional external printer.

Multiple AeroTrak® 9306 Particle Counter configurations can be conveniently stored and uploaded as needed using the TrakPro™ Lite Secure data download and reporting software supplied as standard.

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.

Features and Benefits

- Complies with all requirements of ISO 21501-4
- 0.3 to 25µm 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
- Mass concentration option (density parameter is user-configurable)
- Integrated handle for one hand operation
- Removable, rechargeable Li-ion battery
- Long life laser diode
- Compatible with TrakPro™ Lite Secure Software and FMS 5 software packages
- USB cable, USB storage device and Ethernet data transfer
- Data storage: 250 zones, 999 locations, and 10,000 samples
- Provides Pass/Fail reporting on ISO 14644-1, EU GMP, and FS209E
- External reporting of ISO 14644-1, EU GMP, and FS209E via TrakPro Lite Secure Software
- Optional Temperature/RH sensor available

Specifications

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Size Range	0.3 to 25 µm	Unit ID	Configurable IP address
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	Security	2-level password protection to lock out usage and configuration
Size Resolution	<15% @ 0.5 (per ISO 21501-4 requirements)	Data Storage	250 Zones 999 Locations 10,000 sample records including: date, time, six total particle size channels, flow status, and instrument status
Counting Efficiency	50% at 0.3µm; 100% for particles >0.45µm (per ISO 21501-4 and JIS)	Data Transfer	Via USB storage device, connection to the TrakPro™ Lite Secure Software through Ethernet or USB cable, or optional TSI® FMS Software
Concentration Limits	5,950,000 particles/ft³ (210,000,000/m³ @ 10% coincidence loss)	Languages	English, Japanese, German, French, Spanish, and Chinese (Simplified), Italian
Light Source	Long life laser diode	Software	Compatible with TrakPro™ Lite, TrakPro™ Lite Secure and FMS 5 Software
Zero Count	<1 count /5 minutes (per ISO 21501-4 and JIS B9921)	External Surface	High impact injection molded plastic
Flow Rate	0.1 CFM (2.83 L/min) with ±5% accuracy (meets ISO 21501-4 and JIS requirements)	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)
Flow Rate Control	Electronic, automatic closed loop (patented* flow control technology)	Weight	2.2 lb (1.0 kg) with battery
Calibration	NIST traceable with TSI® calibration system	Power	110 to 240 VAC, 50 to 60 Hz universal in-line power supply
Calibration Frequency	Recommended minimum once per year	Battery	Removable/rechargeable Li-Ion
Sampling Modes	Manual, automatic, beep; cumulative/ differential; count or concentration	Battery Life	> 6 hours of continuous use
Sampling Time	1 second to 99 hours	Recharge Time	< 2 hours
Sampling Frequency	1 to 9999 cycles or continuous	Standards	ISO 21501-4, CE, JIS B9921
Exhaust	Internally HEPA filtered	Warranty	Two years, extended warranties available
Communication Mode	Modbus® TCP over Ethernet or USB	Operating Range	41° to 95°F (5° to 35° C), 20% to 95% non-condensing
Alarm Status	Audible alarm on counts	Included Accessories	Online operating manual, power supply, battery, isokinetic inlet, purge filter, stylus, USB cable and TrakPro Lite Secure
Status Indicators	Low battery, flow, laser	Optional Accessories	Spare Battery, external battery charger, isokinetic probe, sample tubing, Temp/RH probe, printer, printer paper and carrying case
Environmental Sensors	Optional Temp/RH probe		
Display	QVGA 3.5-inch (8.9-cm) touch screen		
Reports	Provides Pass/Fail on ISO 14644-1, EU GMP, and FS209E reports		