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.

SPECIFICATIONS

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	5,950,000 particles/ft3 (210,000,000/m3) @ 10% 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 HEPA filtered
Communication Mode	Modbus® TCP over Ethernet or USB
Alarm Status	Audible alarm on counts
Status Indicators	Low battery, flow, laser
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
Unit ID	Configurable IP address
Security	2-level password protection to lock out usage and configuration
Data Storage	250 Zones
	999 Locations
	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 TrakPro™ Lite Secure software through Ethernet or USB cable, or optional TSI FMS software
Languages	English, Japanese, German, French, Spanish, and Chinese (simplified), Italian
Software	Compatible with TrakPro™ Lite, TrakPro™ Lite Secure 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 Secure
Optional Accessories	Spare Battery, external battery charger, isokinetic probe, sample tubing, Temp/RH probe, printer, printer paper and carrying case

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