

# 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 9cm colour touch-screen interface makes it easy to configure and operate. The Model 9306 can generate Pass/Fail reports for ISO 14644-6 and EU GMP Annex 1. 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

- Complies with all requirements of ISO 21501-4
- 0.3 to 25 µm size range
- Compatible with TrakPro Lite Secure
- USB Cable, USB Storage Device and Ethernet data transfer
- Measures up to six channels of simultaneous data
- Model 9306-V2 provides unique variable binning option
- Mass Concentration option (density parameter is user-configurable)
- Removable, rechargeable Li-ion battery
- Optional Temperature/RH sensor available
- Long life laser diode
- 0.1 CFM (2.83 L/min) flow rate
- FMS 5 software packages
- Integrated handle for one hand operation
- Data storage: 250 zones, 999 locations & 10,000 samples
- Provides Pass/Fail reporting on ISO 14644-1 and EU GMP
- External reporting of ISO 14644-1, EU GMP via TrakPro Lite

\* Particle counters with a 50L/min and 100L/min are also available – see website for details

# Specifications

## Aerotrak handheld particle counter model 9306

<b>Size Range</b>	0.3 to 25 µm	<b>Security</b>	2-level password protection to lock out usage and configuration
<b>Particle Channel Sizes</b>	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	<b>Data Storage</b>	250 Zones 999 Locations 10,000 sample records including: date, time, six total particle size channels, flow status and instrument status
<b>Size Resolution</b>	<15% @ 0.5 µm (per ISO 21501-4 requirements)	<b>Data Transfer</b>	Via USB storage device, connection to TrakPro Lite Secure software through Ethernet or USB cable, optional TSI FMS software
<b>Counting Efficiency</b>	50% at 0.3 µm; 100% for particles >0.45 µm (per ISO 21501-4)	<b>Languages</b>	English, Japanese, German, French, Spanish, and Chinese (simplified), Italian
<b>Concentration Limit</b>	5,950,00 particles/ft3 (210,000,000/m3) @ 10% coincidence loss	<b>Software</b>	Compatible with TrakPro Lite, TrakPro Lite Secure and FMS 5 Software
<b>Light Source</b>	Long life laser diode	<b>External Surface</b>	High impact injection moulded plastic
<b>Zero Count</b>	<1 count per 5 minutes (per ISO 21501-4 and JIS B9921)	<b>Dimension(H x W x D)</b>	23.9 cm x 11.7 cm x 12.4 cm (without isokinetic inlet, includes handle)
<b>Flow Rate</b>	1 CFM (28.3 L/min) with ±5% accuracy (meets ISO21501-4 and JIS requirements)	<b>Weight</b>	1 kg with battery
<b>Flow Rate Control</b>	Electronic, automatic closed loop (patented flow control technology*)	<b>Power</b>	110 to 240 VAC, 50 to 60 Hz universal in-line power
<b>Calibration</b>	NIST Traceable with TSI calibration system	<b>Battery</b>	Removeable / rechargeable Li-Ion (2 battery slots)
<b>Calibration Frequency</b>	Recommended minimum once per year	<b>Battery Life</b>	> 2 hours of continuous use
<b>Sampling Modes</b>	Manual, automatic, beep; cumulative/differential; count or concentration	<b>Recharge Time</b>	< 2 hours
<b>Sampling Time</b>	1 second to 99 hours	<b>Standards</b>	ISO 21501-4, CE, JIS B9921
<b>Sampling Frequency</b>	1 to 9999 cycles or continuous	<b>Warranty</b>	Two years, extended warranties available
<b>Exhaust</b>	Internally HEPA filtered	<b>Operating Range</b>	5° to 35°C, 20% to 95% noncondensing
<b>Communication Mode</b>	Modbus® TCP over Ethernet or USB	<b>Storage Range</b>	0° to 50°C, up to 98% RH noncondensing
<b>Alarm Status</b>	Audible alarm on counts	<b>Environmental Sensors</b>	Optional Temp/RH probe
<b>Status Indicators</b>	Low battery, flow, laser	<b>Unit ID</b>	Configurable IP Address
<b>Display</b>	QVGA 9cm touch screen	<b>Included Accessories</b>	Operating manual on CD, power supply, battery, isokinetic inlet, purge filter, stylus, USB cable and TrakPro Lite Secure
<b>Reports</b>	Provides Pass/Fail on ISO 14644-1, EU GMP reports	<b>Optional Accessories</b>	Spare battery, external battery charger, isokinetic probe, sample tubing, temp/RH probe, printer, printer paper and carrying case

\*Patent Number 6,167,107 / AeroTrak, TSI, and the TSI logo are registered trademarks, and TrakPro is a trademark of TSI Incorporated. / Modbus is a registered trademark of Modicon, Inc

Specifications are subject to change without notice.

**Please see website for more details or email [monitoring@validair.com](mailto:monitoring@validair.com) for a quotation.**



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