$\langle \mathbb{R} \rangle$ (| + A|10DF

The AeroTrak® 9001 Cleanroom Condensation Particle Counter (CPC) is the only waterbased, laminar flow, high flow rate instrument on the market-providing the confidence needed for monitoring critical environments. Using patented technology, the instrument provides 10 nm sensitivity at a 0.1 CFM (2.83 L/min) flow rate. With an ultra-low false count rate, the AeroTrak 9001 Cleanroom CPC is ideally suited for the low particle concentrations found in ISO Class 1 and Class 2 environments.



TSI is the world leader in condensation particle counter technology, supplying commercial instruments since 1979. TSI's world-class classifiers and CPCs are used by national and standards labs worldwide. This same technology is used in the AeroTrak 9001 Cleanroom CPC. Backed by a standard one-year warranty and TSI's long-standing reputation for high quality, there is no other CPC like it on the market today that provides the same confidence for monitoring critical environments.

Unlike other high flow rate water-based CPCs, the AeroTrak 9001 Cleanroom CPC does not use turbulent mixing, so it minimizes particle losses and increases counting accuracy. Unlike alcohol or other non-water based CPCs, the AeroTrak 9001 Cleanroom CPC does not introduce chemicals into clean environments.

The AeroTrak 9001 Cleanroom CPC has the same easy-to-use graphics interface as other AeroTrak Particle Counters. Multiple particle counting configurations can be conveniently stored and uploaded as needed.

The AeroTrak 9001 Cleanroom CPC can be used as a standalone particle counter or run continuously, integrated into a facility monitoring system like the TSI FMS Software. Optionally, the instrument can be interfaced to other systems using the Ethernet interface and Modbus communications.

Features and Benefits

- + 10 nm sensitivity
- + 0.1 CFM (2.83 l/min) sample flow
- + Low false-count rate (< 0.07 count/ft³) provides accurate measurements at low particle concentrations
- + Fast response
- + Uses Ultra-Pure or DI water as working fluid, keeping alcohol or other chemicals out of the cleanroom
- + Data Storage: 250 zones, 999 locations, and 10,000 samples
- + USB, USB storage device, and Ethernet data transfer
- + External reporting via TrakPro™ Lite Secure Software
- + Industry's loudest audible alarm
- + Easy, icon-driven touch screen operation
- + Allows storage and recall of specific recipes and zone configurations
- + Works with optional AeroTrak[®] 7950 High Pressure Diffuser (HPD) for measurement of high pressure gases (CDA, N₂, AR)
- + 316L stainless steel enclosure

TSI-PROVIDING THE CONFIDENCE NEEDED FOR MONITORING CRITICAL ENVIRONMENTS

+ Ultra-low false count rate

- + Trusted performance Three detector design ensures reliability
 Comprehensive self-diagnostics



SPECIFICATIONS

AEROTRAK CONDENSATION PARTICLE COUNTER MODEL 9001

Min. Detectable Particle (D_{50}) - 10 nm		
Max. Detectable Particle - 1000 nm		
Single channel		
50% at 10 nm		
57,000,000 p/Cu. ft @ 10% coincidence		
Ultra-Pure or De-Ionized Water		
Long life laser diode		
<0.07 count/Cu. ft		
0.1 CFM (2.83 L/min)		
Up to 3 ft (1 m) for 10 nm particles		
Manual, automatic, beep; count or concentration		
1 second to 99 hours		
1 to 9999 cycles or continuous		
Internal pump		
Modbus TCP over Ethernet or USB		
Built-in; > 85 dBA at 1 m (adjustable)		
Dry contacts, closed when alarm is engaged		
Programmable		
VGA 5.7 in. (14.5 cm) touch screen display		
English, German, French, Spanish, Japanese, Chinese (simplified), Italian		
Compatible with TrakPro Lite Secure and FMS 5 Software		

Unit ID	Configurable IP address		
Security	2-level password protection to lock out usage and configuration		
	250 zones		
Data Storage	999 Locations		
	10,000 sample records including date, time, particle concentration, flow status and instrument status		
Data Transfer	Via USB storage device, connection to TrakPro Lite Secure Software through Ethernet of USB cable, or optional TSI FMS Software		
Calibration Frequency	Recommended minimum of once per year		
Dimension (H x W x D)	22.4 in. x 9.3 in. x 8.6 in. (56.9 cm x 24.6 cm x 21.8 cm) (without water bottle)		
Weight	28.5 lbs (13.0 kg)		
Power	110 to 240 VAC universal power supply		
External Surface	316L Stainless steel		
Operating Range	59° to 95° F (15° to 35° C) 0 to 90% RH, non-condensing		
Storage Range	-40° to 158° F (-40° to 70° C)		
Warranty	One year		
Included Accessories	Quick Start Guide, manual on a CD, power supply, purge filter, 2 inlets (barbed inlet and a 3/16 in. OD straight tube connector inlet), water bottle, bracket for water bottle, drain bottle and USB cable		
Optional Accessories	AeroTrak® 7950 High Pressure Diffuser		
ISO 14644-14:2016	An assessment, including an agreed upon representative mode of operation, according to ISO 14644-14 showed that the AeroTrak 9001 Cleanroom CPC has suitability for use within a cleanroom of ISO Class 3 at 0.1µm		

Specifications are subject to change without notice.

AeroTrak, TSI and the TSI logo are registered trademarks, and TrakPro is a trademark of TSI Incorporated.

To see our list of patents please visit: **www.tsi.com/patents**



TSI Incorporated - Visit our website www.tsi.com for more information.

USA	Tel: +1 800 874 2811	India	Tel: +91 80 67877200
UK	Tel: +44 149 4 459200	China	Tel: +86 10 8219 7688
France	Tel: +33141192199	Singapore	Tel: +65 6595 6388
Germany	Tel: +49 241 523030		

P/N 5001668 (A4) Rev E