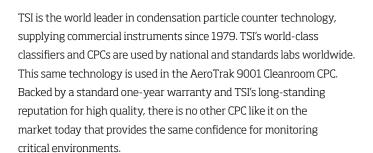
frak® cleanroc 10DEI 90

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.



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.

UNDERSTANDING, ACCELERATED

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

| 0001 | |
|--------------------------|--|
| 9001 | |
| Particle Size Range | Min. Detectable Particle (D ₅₀) - 10 nm |
| | Max. Detectable Particle - 1000 nm |
| Particle Channel Sizes | Single channel |
| Counting Efficiency | 50% at 10 nm |
| Concentration Limits | 57,000,000 p/Cu. ft @ 10% coincidence |
| Working Fluid | Ultra-Pure or De-Ionized Water |
| Light Source | Long life laser diode |
| Zero Count | <0.07 count/Cu. ft |
| Flow Rate | 0.1 CFM (2.83 L/min) |
| Sample Tube Extension | Up to 3 ft (1 m) for 10 nm particles |
| Sampling Modes | Manual, automatic, beep; count or concentration |
| Sampling Time | 1 second to 99 hours |
| Sampling Frequency | 1 to 9999 cycles or continuous |
| Vacuum Source | Internal pump |
| Communication Mode | Modbus TCP over Ethernet or USB |
| Audible Alarm | Built-in; > 85 dBA at 1 m (adjustable) |
| Alarm Output | Dry contacts, closed when alarm is engaged |
| Alarm Limits | Programmable |
| Display | VGA 5.7 in. (14.5 cm) touch screen display |
| Languages | English, German, French, Spanish, Japanese, Chinese (simplified), Italian |
| Software | Compatible with TrakPro Lite Secure and FMS 5 Software |

Specifications are subject to change without notice.

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

| | T |
|-----------------------|---|
| 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, 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 |



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