



® Knowledge  
Beyond  
Measure.



# Lower Your Risk. Don't Fail Audits. Contamination Control Monitoring.

Electronics and Semiconductors

Meeting the Industry Standards

- ISO 14644-1: 2015 — Cleanrooms and associated controlled environments
- ISO 21501-4:2018 — Calibration standards





# Lower Your Risk. Don't Fail Audits. Contamination Control Monitoring

## Airborne Particle Counters

10 nm to 25 µm measurement

Models for every electronics and semiconductor environment and application including:

- Cleanroom monitoring
- Tool monitoring
- Gas Monitoring



### 1 AeroTrak® Cleanroom Condensation Particle Counter

- Confident 24/7 operation
- Minimal maintenance
- High flow rates
- Ultra-low false count rates
- No contamination or chemicals introduced into the ultra-clean environment

### 2 AeroTrak®+ Remote Particle Counters\* Ultra-Reliable Data Collection

- Protect against network failures with six months of data storage
- Flexible environmental monitoring system with Wi-Fi® communication

### 3 Aerosol Sampling Manifold

### 4 High Pressure Diffusers

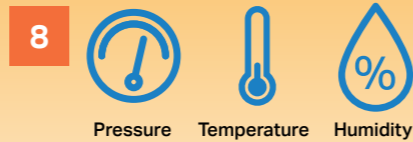
### 5 AeroTrak®+ Portable Particle Counters\*

- Different sample modes for monitoring, classifying, and root cause investigation
- Built-in monitoring and classification reports

### 6 AeroTrak® Handheld Particle Counters

### 7 Remotes with Pump

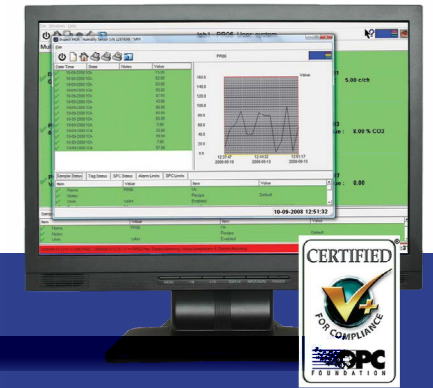
### 8 Integrated Environmental Monitoring Probes



## TSI® Facility Monitoring Software: Reliable Monitoring Systems

Distributed. Flexible. Redundant.

- No single point of failure
- Data available where and when you need it
- Easily scalable



### A Monitor: Data Collection

- Fault-tolerant design
- Protects against network failures
- Hot-standby options

### B Client: Interface

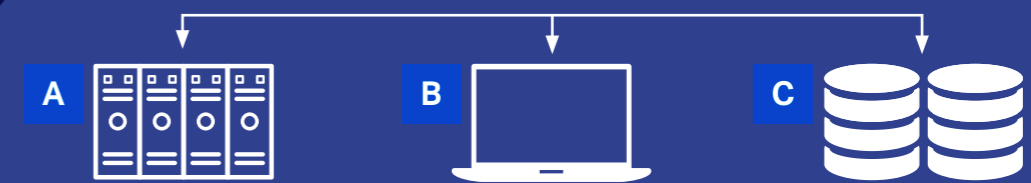
- Turn data into knowledge with alarming, reports, and trending
- Does not effect monitor or database functions
- Multiple clients possible

### C Database: Secure Storage

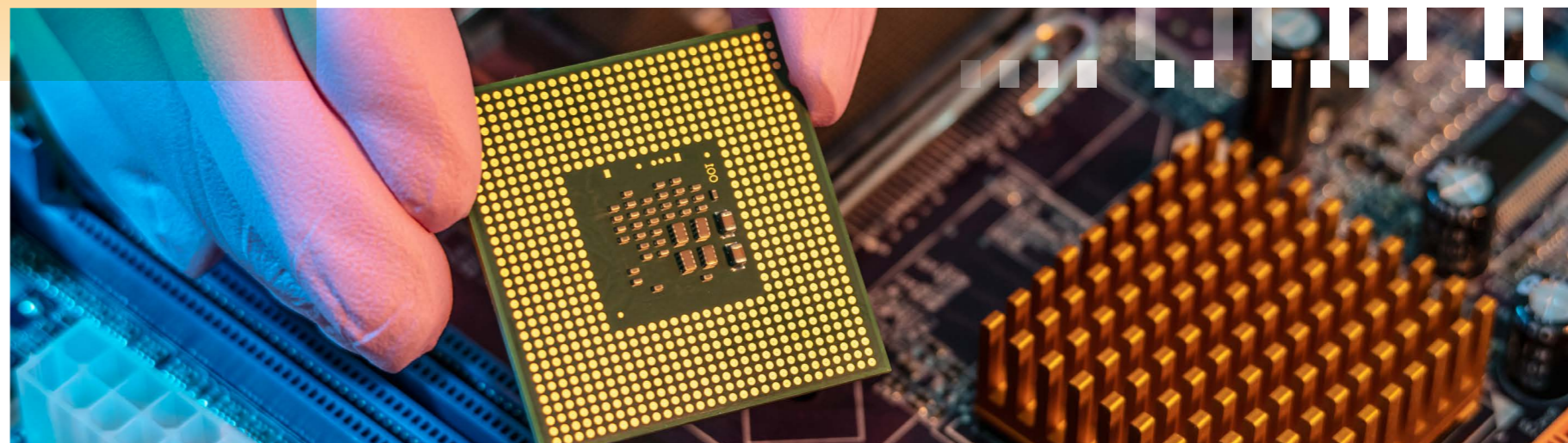
- Valuable data is safe and secure
- Redundancy is standard with a mirror database
- SQL for high availability and fast access

Environmental Monitoring Data

## FMS Architecture



\* Unmatched 5 Year Laser Warranty



# Lower Your Risk. Don't Fail Audits. Contamination Control Monitoring.

## Electronics and Semiconductors

### Facility Monitoring System

A reliable monitoring system that ensures environmental control and decreases downtime

Model	Flow Rate	Benefits and Features
<b>Remote Particle Counters</b> Designed for continuous monitoring as part of the Facility Monitoring System with Analog and WiFi options		
AeroTrak®+ 6000 series	0.1 CFM (2.83 LPM)	Measure down to 0.2 or up to 25 µm, includes onboard pump, compact size, many communications options
AeroTrak®+ 7000 series	0.1 CFM (2.83 LPM) & 1 CFM (28.3 LPM)	Measure down to 0.2 or up to 25 µm, compact size, many communications options
AeroTrak®+ 6310	1 CFM (28.3 LPM)	Full 1 CFM flow rate, 0.3 to 5.0 channels available, field-removable sensor/pump
AeroTrak® 7110	1 CFM (28.3 LPM)	Accurately measures particles down to 0.1 µm, complies with all requirements of ISO 21501-4

### Portable Particle Counters

Versatile instruments suitable for classification and monitoring

AeroTrak®+ A100 Series	1 CFM (28.3 LPM), 1.77 CFM (50 LPM), and 3.53 CFM (100 LPM) models available	Intuitive interface, simplifies sampling with workflows, built-in classification and monitoring reporting capabilities, gas and filter testing
AeroTrak® 9110	1.0 CFM (28.3 LPM)	Accurately measures particles down to 0.100 µm, includes display & onboard pump, provides classification testing, complies with all requirements of ISO 21501-4

### Handheld Particle Counters

Economical choice for higher class cleanrooms and investigations

AeroTrak® 9303	0.1 CFM (2.83 LPM)	Small and lightweight, low cost and versatile
AeroTrak® 9306	0.1 CFM (2.83 LPM)	Versatile, user-selectable channel version available

### Cleanroom Condensation Particle Counter

The only water-based, laminar flow CPC on the market that can run continuously, 24/7, or as a standalone unit

AeroTrak Cleanroom CPC 9001	1 CFM (28.3 LPM)	Measures down to 10 nm like no other, ultralow zero counts for cleanroom processes
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Compliance  
Data Integrity  
Ease of Use  
Profitability



Risk  
Downtime  
Cost  
Waste

Unmatched  
5 Year Laser  
Warranty

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Wi-Fi is a registered trademark of the Wi-Fi Alliance.



Knowledge Beyond Measure.

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