

Reliable.
Confident.
Environmental
Monitoring.

Pharmaceuticals | Life Sciences

Global Good Manufacturing Practices

 Annex 1 (EU, PIC/S, WHO): Manufacture of Sterile Medicinal Products

FDA Guidance for Industry - Sterile Drug Products
 Produced by Aseptic Processing

ISO 14644-1:2015, 14644-2:2015 & 21501-4:2018



Reliable. Confident. Environmental Monitoring.

Airborne Particle Counters

Confident Results Matter

- Models for every pharmaceutical environment and application
- ALCOA+ data integrity principles for no-hassle 21 CFR Part 11 compliance
- Leading the way in real-time viable particle detection

BioTrak® Real-Time Viable Particle Counter

The Future of Viable Monitoring

- Reduce or eliminate interventions in Grade A
- Achieve truly continuous viable monitoring
- Accelerate investigations with real-time data

AeroTrak®+ Remote **Particle Counters***

Ultra-Reliable Data Collection

- Protect against network failures with six months of data storage
- Worry-free cleaning with sealed inlets and VHP resistant options
- Flexible environmental monitoring system with Wi-Fi® communication
- **Remotes with Pump**
- AeroTrak® Handheld **Particle Counters**
- AeroTrak®+ Portable **Particle Counters***
 - Different sample modes for monitoring, classifying, and root cause investigation
 - Built-in monitoring and classification reports

Active Air Sampler for Aseptic Environments

- Intermittent sampling improves knowledge of conditions during a production run without interventions
- Protect against network failures with local data storage
- **Integrated Environmental Monitoring Probes**

* Unmatched 5 Year Laser Warranty

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
- Pharma 4.0 ready communication via OPC UA Client/Server



- Fault-tolerant designProtects against network failuresHot-standby options

Client: В Interface

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

Database: **Secure Storage**

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











Reliable. Confident. Environmental Monitoring.

Environmental Monitoring Products for Pharmaceutical Manufacturing & Life Sciences

Facility Monitoring System

A reliable monitoring system that ensures environmental control and decreases downtime – Pharma 4.0 plug and play functionality via OPC UA Client/Server

Benefits and Features **Remote Particle Counters**

Designed for continuous monitorinig as part of the Facility Monitoring System

AeroTrak®+ 7510 1 CFM (28.3 LPM) VHP resistant models available, Wi-Fi® capable with optional

Built-in pump, VHP AeroTrak® 6510 1 CFM (28.3 LPM)

resistant models available

Portable Particle Counters

Versatile instruments suitable for classification and monitoring

1 CFM (28.3 LPM), 1.77 CFM (50 LPM), and 3.53 CFM (100 AeroTrak®+ A100 Series LPM) models available

Intuitive interface, manages sampling with workflows, built-in classification and monitoring reporting capabilities

Handheld Particle Counters

Economical choice for higher class cleanrooms and investigations

AeroTrak® 9306 0.1 CFM (2.83 LPM) Small and lightweight

Real-Time Viable Particle CounterA bioflourescent particle counter (BFPC) that provides total and viable particle counts in real-time

BioTrak® 9510-BD 1 CFM (28.3 LPM)

Alternative method to meet Annex 1 requirement for continuous viable air monitoring

Active Air Sampler

Designed specifically for use in aseptic environments

AeroTrak®+ 7010 1 CFM (28.3 LPM)

Meets ISO 14698 and EN 17141 requirements with a d₅₀ = 0.8 µm



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Knowledge Beyond Measure.

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