

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

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# 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**<sup>™</sup>+ **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**<sup>™</sup>**+ 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

Pressure Temperature

Humidity

- Protect against network failures with local data storage
- **Integrated Environmental Monitoring Probes** 
  - \* Unmatched 5 Year Laser Warranty

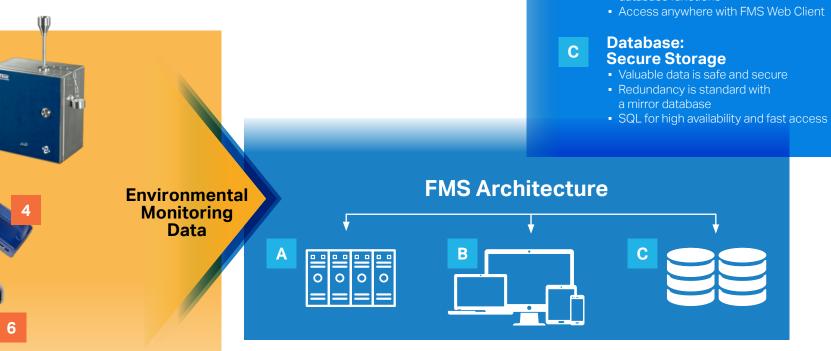
# **TSI**<sup>®</sup> Facility Monitoring Software: **Reliable Monitoring Systems**

#### 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



- reports, and trending
- Does not effect monitor or database functions
- Access anywhere with FMS Web Client





# 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 with accessibility anywhere

Model Flow Rate 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 module

AeroTrak™ 6510 1 CFM (28.3 LPM) Built-in pump, VHP resistant models available

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, 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 Counter** 

A bioflourescent particle counter (BFPC) that provides total and viable particle counts in real-time

Alternative method to meet Annex 1 requirement for continuous viable BioTrak™ 9510-BD 1 CFM (28.3 LPM) air monitoring

Active Air Sampler

Designed specifically for use in aseptic environments

Meets ISO 14698 and EN 17141 requirements AeroTrak™+ 7010 1 CFM (28.3 LPM)

with a  $d_{50} = 0.8 \, \mu m$ 

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