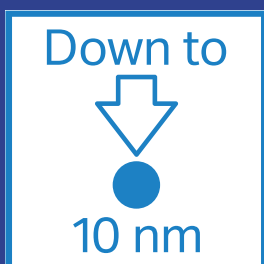![TSI logo] ® **Knowledge Beyond Measure.**

Meet Tomorrow's Challenges with Nanoscale Expertise

Particle and Environmental Monitoring Products
for Electronics and Semiconductor

Down to
↓
●
10 nm

Meet Tomorrow's Challenges with Nanoscale Expertise

Environmental Monitoring Products for Electronics and Semiconductor

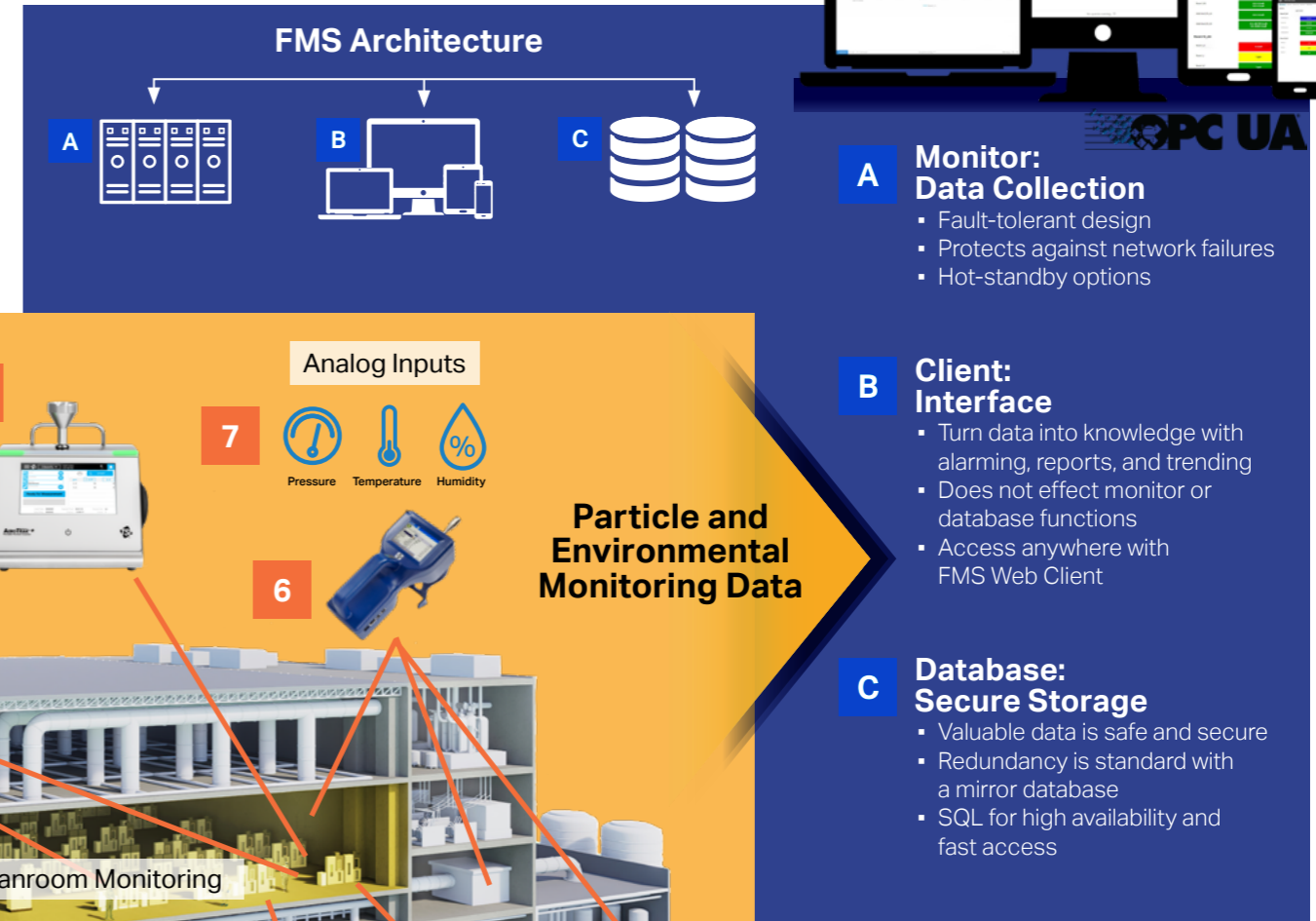### Airborne Particle Counters

10 nm to 25 µm measurement
Models for every electronics and semiconductor environment and application including:
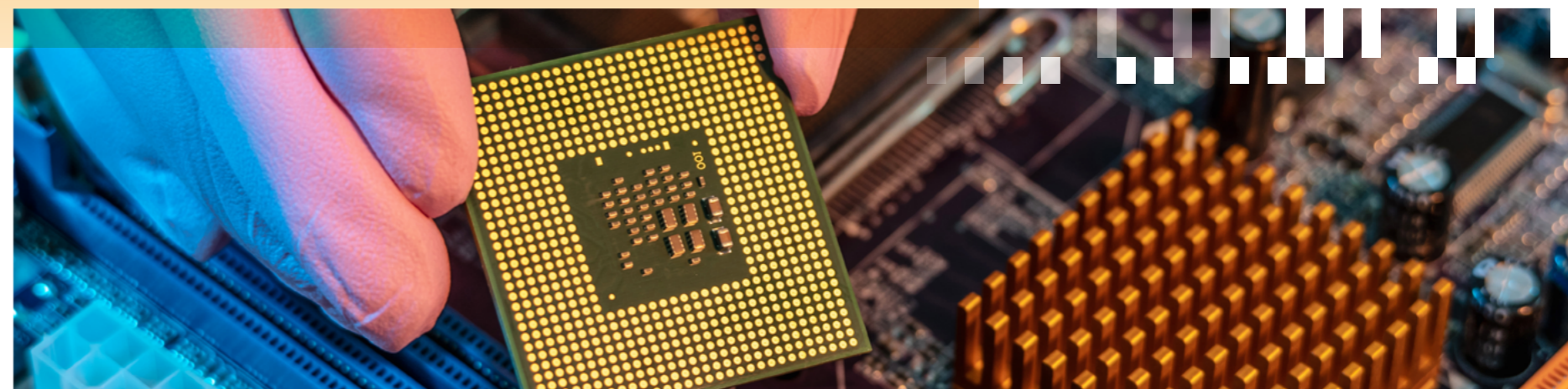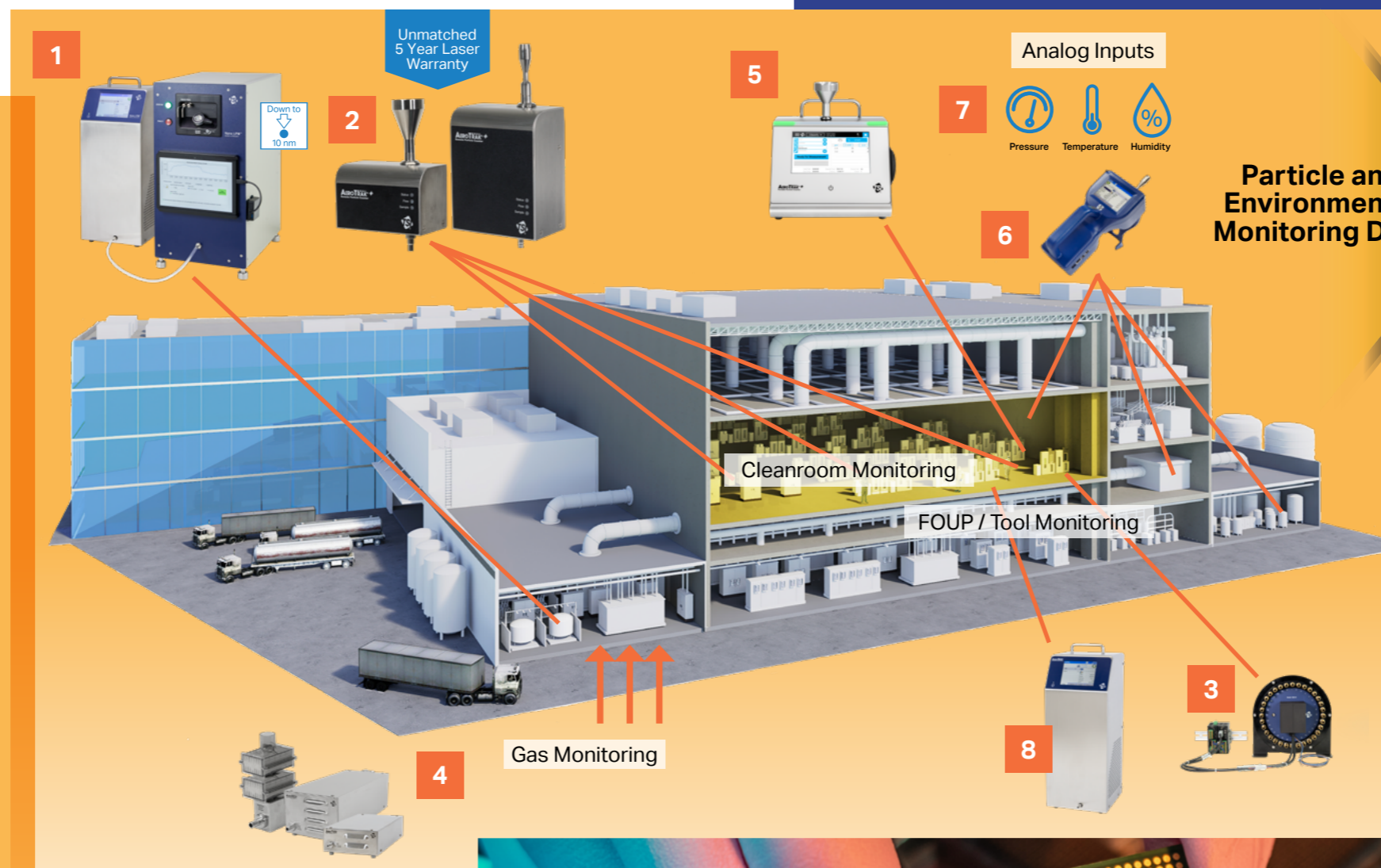- Cleanroom monitoring
- Tool monitoring
- Gas monitoring

1 Nano LPM™ System
- Ensures reliable nanoparticle detection down to 10 nm in UPW
- Ultralow false counts
- Onboard tablet interface for modern, multi-functional data analysis

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
- Monitor up to 32 points with a single particle counter

4 High Pressure Diffusers
- Measure particulate contamination in high-pressure compressed gas systems

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 Integrated Environmental Monitoring Probes
- Using FMS

8 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

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

FMS Architecture

A B C

OPC UA

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
- Access anywhere with FMS Web Client

C Database: Secure Storage
- Valuable data is safe and secure
- Redundancy is standard with a mirror database
- SQL for high availability and fast access

Unmatched 5 Year Laser Warranty

Down to 10 nm

Analog Inputs

Pressure   Temperature   Humidity

Particle and Environmental Monitoring Data

Cleanroom Monitoring

FOUP / Tool Monitoring

Gas Monitoring

Meet Tomorrow's Challenges with Nanoscale Expertise

Particle and Environmental Monitoring Products for Electronics and Semiconductor

Facility Monitoring System
A reliable monitoring system that supports process control and decreases downtime.

Model	Flow Rate	Benefits and Features
Remote Particle Counters 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 CFM (28.3 LPM)	Accurately measures particles down to 0.1μm, 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	0.1 CFM (2.83 LPM)	Measures down to 10 nm, ultralow zero counts for cleanroom processes
Nanoparticle Monitoring in Ultrapure Water Empowers data-driven decisions in UPW monitoring...like never before.		
Nano LPM™ System	12 mL/hour (±2 mL) (Water Sample)	Enables proactive, data-driven action before product quality is affected — ensuring reliable detection down to 10 nm, ultralow false counts for state-of-the-art semiconductor and electronics UPW systems, onboard tablet interface for modern, multi-functional data analysis

Down to 10 nm

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

Knowledge Beyond Measure.