Without measurement there is no control®

PARTICLE MEASURING SYSTEMS®
a spectris company

FacilityNet™ Insight

Advanced Facility Monitoring Software

Intuitive, reliable oversight and control of sampling and data

Centralized, real-time, secure environmental monitoring

FacilityNet™ Insight is an integrated Facility Monitoring System for controlling, collecting, and managing data and events from a comprehensive set of Particle Measuring Systems (PMS) particle counter instruments. It safeguards environmental control through unified data collection, event management, and process oversight. Designed for complex scenarios such as factories or production plans, it delivers a modern, centralized, reliable platform for contamination control and data integrity.

FacilityNet Insight's web-based architecture enables access data and system functions from a standard web browser, offering flexibility and estreamlined connectivity across the network. The system is engineered for robust data management and analysis in both physical and virtualized environments, ensuring smooth operation, sustained performance, and long-term process stability.

BENEFITS

- Real-time, configurable dashboards deliver immediate visibility into critical process conditions through interactive widgets, plots, and data tables
- Historical data analysis and versatile reporting tools reveal critical trends to support proactive decision-making
- Advanced alarm engine with four configurable severity levels, user-defined priorities, and display options for clear event management
- Virtual Points enable mathematical and statistical calculations from physical sample data, including log reduction and filter efficiency
- Intuitive, web-based interface streamlines system navigation and minimizes operator training time
- Flexible instrument configuration supports Online, Offline, and Multicast setup methods for new and existing sensors

FEATURES

- Compatible with Windows® 11 operating system
- Web platform accessed through Google Chrome
- Powerful reporting engine generates Batch and Audit reports in CSV, PDF, and XLSX formats
- Advanced alarm management with four alarm levels, configurable priorities, SPC ratios ("Events on a Window"), and alarm acknowledgment tracking
- Security system lets administrators define feature-level permissions with multiple user roles

APPLICATIONS

- Facility environmental monitoring
- Chemical Certificate of Analysis (COA) review
- Filter testing and efficiency analysis
- Cleanroom compliance monitoring
- Advanced process troubleshooting using Virtual Points
- Centralized environmental data management and reporting

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Detailed Feature Descriptions

Customizable Monitoring Dashboards

The Monitoring Page is the central hub for data visualization. Custom dashboards can be configured to display real-time information from any combination of sample and virtual points. Dashboards use interactive widgets to present current values, sampling status, time plots, and data tables, providing a comprehensive view of the operations.

Time Plots and Historical Data Analysis

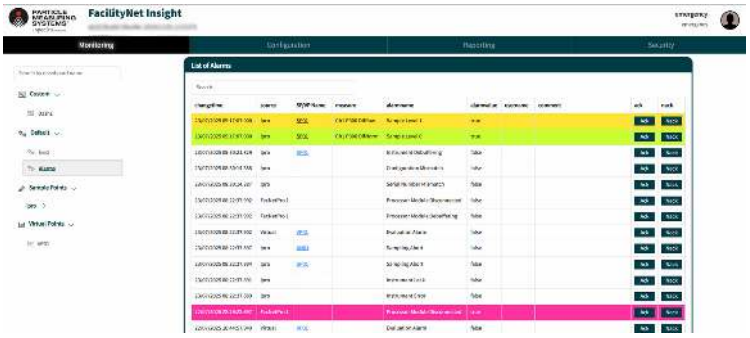
Real-time and historical data can be visualized in fully customizable time plots. Adjustable color, line style, and width settings distinguish individual measurements, while linear or logarithmic scales enhance data interpretation. Historical datasets can be retrieved and exported for in-depth analysis, supporting ongoing process optimization and compliance review.

Virtual Points and Statistics

FacilityNet Insight supports the creation of Virtual Points: custom points that apply arithmetic or logical formulas to data from one or more physical sample points. This powerful feature enables complex real-time calculations such as filter efficiency (FILTEFF), log reduction (LOGRED), and SPC metrics without the need for external analysis tools.

Advanced Alarming and Notification

The configurable alarm engine precisely monitors individual sample points with four defined alarm levels for escalating conditions. Alarms can be triggered by a single event or by SPC ratios. Configurable priorities ensure that critical conditions receive immediate attention. All alarm activity is recorded in the audit trail for full traceability and compliance.



Comprehensive Reporting and Audit Trails

The flexible Reporting Page enables the generation of detailed reports directly from the system. **Batch Reports** export sampling data from physical, analog, or virtual points, and **Audit Reports** capture all system activity, including user logins, configuration changes, and alarm acknowledgments, to support data integrity and regulatory compliance. All reports can be exported to CSV, PDF, or XLSX formats.

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Whether deployed on a physical machine or in a virtual environment, the following minimum hardware specifications are required to ensure reliable operation of the software. Exceeding these specifications is recommended for optimal performance, especially when working with larger datasets or high-demand applications. Refer to the table below for the minimum system requirements.

PARAMETER	SPECIFICATION
Processor	Quad Core Processor 3.40 Ghz
Operating System	Windows 11 (24H2 OS Build 26100.3323
RAM	16 GB
Hard Disk 1	100 GB (for OS and application) SSD only
Hard Disk 2 (D: Drive Physical or Partitioned)	50 GB Required, 500 GB Recommended (for Data) SSD Recommended **NOTE:** HD used for database and daily/manual backup
Network Card	Minimum 1 Network Card
Firewall Rules	Enabled TCP for Port 8080, 8082, 3050
Intel VT/EPT or AMD-V/RVI Virtualization	Enabled
Windows Delivery Optimization	Disabled (Automatically performed by the installer
Browser	Chrome
Language	English (US)
WSL version	2.5.10 or higher

NEED MORE INFORMATION? Scan the QR code to connect with our team for guidance

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