Without measurement there is no control®

PARTICLE MEASURING SYSTEMS®
a spectris company

Facility Net

Facility Monitoring Software



Real-time control and scalable monitoring for critical environments

The Facility Net Software provides a comprehensive environmental monitoring solution with real-time and historical data display for all Particle Measuring Systems particle counters, molecular contamination monitors, and various third-party products. Flexible data display, retrieval or export options coupled with system integration methods enable Facility Net to be used as a standalone monitoring solution or as a sub-component in a larger system of environmental monitoring and building automation products.

Facility Net scales easily to support installations including anywhere from a single-device up to 250+ sample points on a single Real-Time Station computer. Multiple Real-Time Stations can be networked together into a larger system and viewed from multiple Network Stations, giving users a simple path for system expansion or to fit complex needs.

Options

- OPC communications with BMS, SCADA, or other data management systems
- Network stations allow remote analysis of cleanroom data

BENEFITS

Improved Control

- Real-time displays immediately highlight process problems
- Identifies both short- and long-term trends
- Real-time alarm device control with SMS/paging/email alerts for immediate user action

Easy to Use

- Extensive online help to guide users through each function
- Setup screens configure instruments, define alarms, and schedule reports, reducing setup and maintenance time
- Simple-to-use icons speed access to key features, improving response time

FEATURES

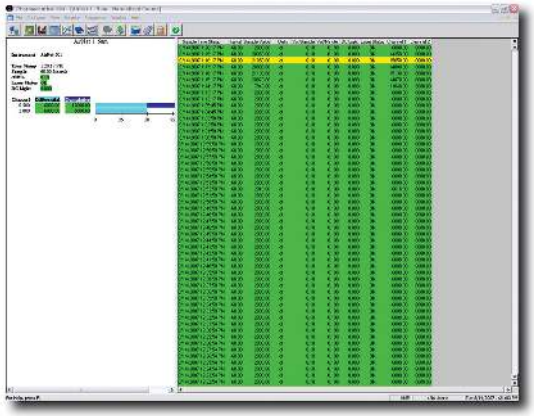
- Compatible with Windows® 10 and 11
- Ethernet networking capabilities using TCP/IP
- Export to SQL Server® 2019 (Professional or Express)
- On-the-fly instrument configuration
- Mathematical and statistical operations including log reduction and filter efficiency
- Real-time and retrieved data in multiple formats including status, current value, live and retrieved plots, audit trail tabular spreadsheets, and maps
- Integrated SMS for sending messages to mobile phones using Global System For Mobile Communications (requires additional hardware not included)
- Multi-language support
- Flexible security system allows multiple users to have unique IDs, passwords, and customized settings

APPLICATIONS

- Facility environmental monitoring
- Filter testing
- Cleanroom compliance monitoring
- UPW and chemical distribution system monitoring
- Centralized environmental data management

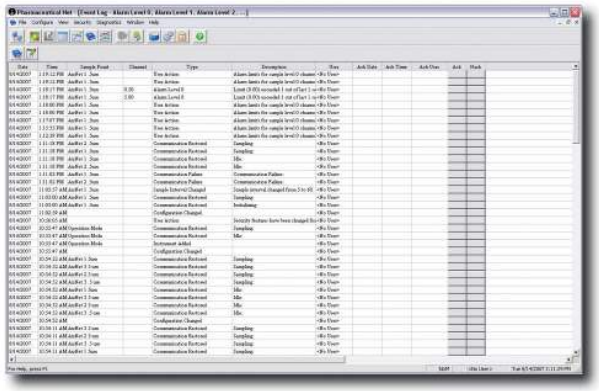
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Historical Tabular Display



Detailed statistical information for each sample point is provided in real time on the tabular display screens. On just one screen, the operator is able to view the instrument's name, status condition, current values, and number of samples, as well as minimum, maximum, average, and standard deviation for selected sample points. The historical tabular display screen allows the operator to review retrieved sample points in a similar format.

Event Log and Automated Tasks

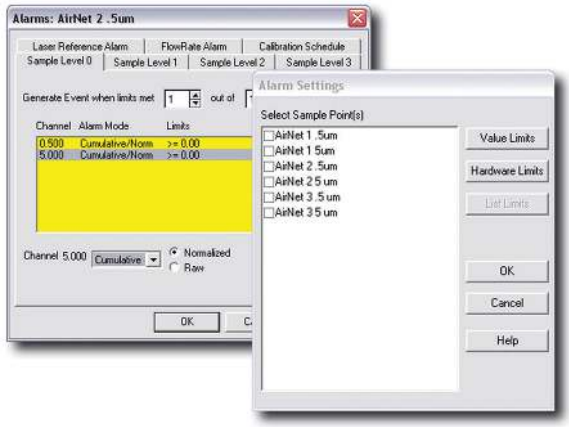


An audit trail registers system activities such as alarm and warning conditions, communication errors, instrument status, configuration events, and operator actions. An operator can review each event and describe the cause in a user entry field.

A job generator allows operators to schedule automated tasks.

Facility Net can generate both printed and electronic reports, create a backup of the database, run recipes, operate external programs, and more, without an operator present.

Alarms and Paging



Operators configure alarms to generate audible or visible alerts when preset limits (parameters) are exceeded. Facility Net offers four alarm levels, allowing progressively out-of-parameter conditions to trigger increasingly urgent alarms.

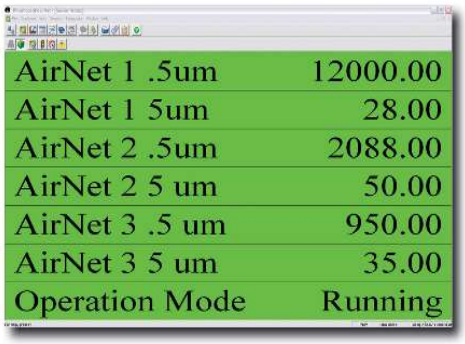
Alarm status information can be relayed to the Status Display, Tabular Display, and the Event Log. Alarm priorities can be set, allowing more important alarms to override less important alarms. An optional paging or e-mail notification feature can be activated when an alarm is triggered.

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Sensor Status Screen

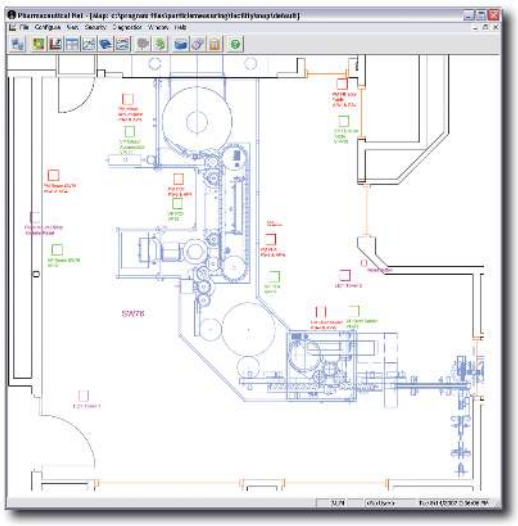
Multiple sensor status screens that allow the operator to display the current particle counts from the monitoring instruments, in real time, for each sample point, group, or combination. When an alarm-level event occurs, the color status for that sample point or group will change to reflect the new condition.

Sensor problems, such as laser power, flow, and communications, are also reflected in the colors on the status screen.



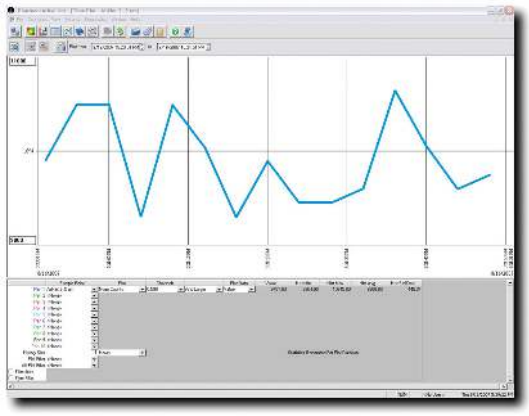
Facility Map

A customized map can be created to illustrate the monitoring instruments configured into the system. The status condition and current values for selected sample points are displayed on the screen and updated in real time. The operator can add or change any monitoring instrument while Facility Net is collecting data. Multiple maps can be generated and organized to display a magnified view of specific locations within the facility.



Time Plots: Real-Time and SPC

Real-time or retrieved data can be plotted using up to ten color-coded pens for each plot. The operator can select particle and environmental sample points, alarm and warning limits, and instrument status levels to appear as selected pens on the time plot in either a linear or log scale. Multiple time plots can be displayed on the screen simultaneously and can be stored for later data analysis.

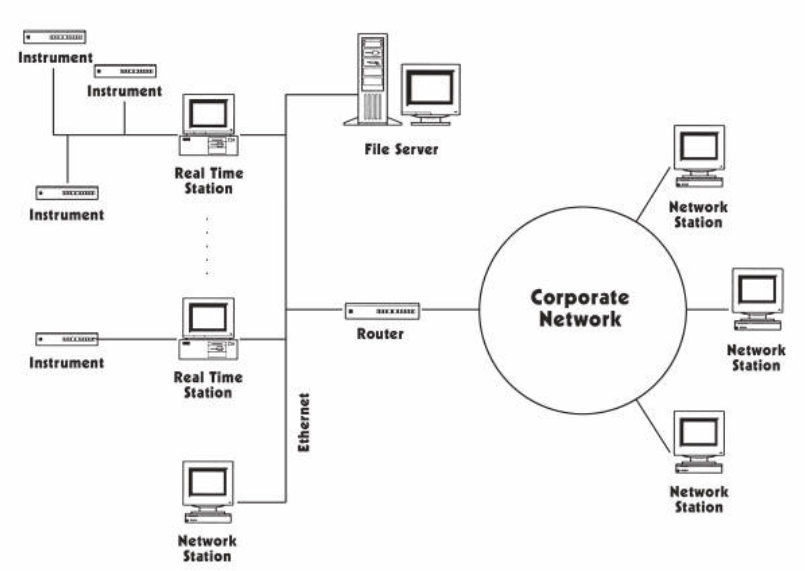


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PARAMETER	SPECIFICATION
Instrumentation supported	All Particle Measuring Systems instruments. Facility Net also supports non-Particle Measuring Systems third-party instruments, such as TOC, differential ressure monitors, air velocity monitors, and many others. Please contact Particle Measuring Systems for more detail on specific models supported.
PC compatibility	Minimum requirements: Pentium-based 2 GHz computer with 2 GB RAM and 60 GB hard drive. Recommended requirements: Pentium-based i5 3.2 GHz computer with a minimum of 4 GB RAM and 500 GB hard drive (or better).

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

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COMMITTED TO Net Zero

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