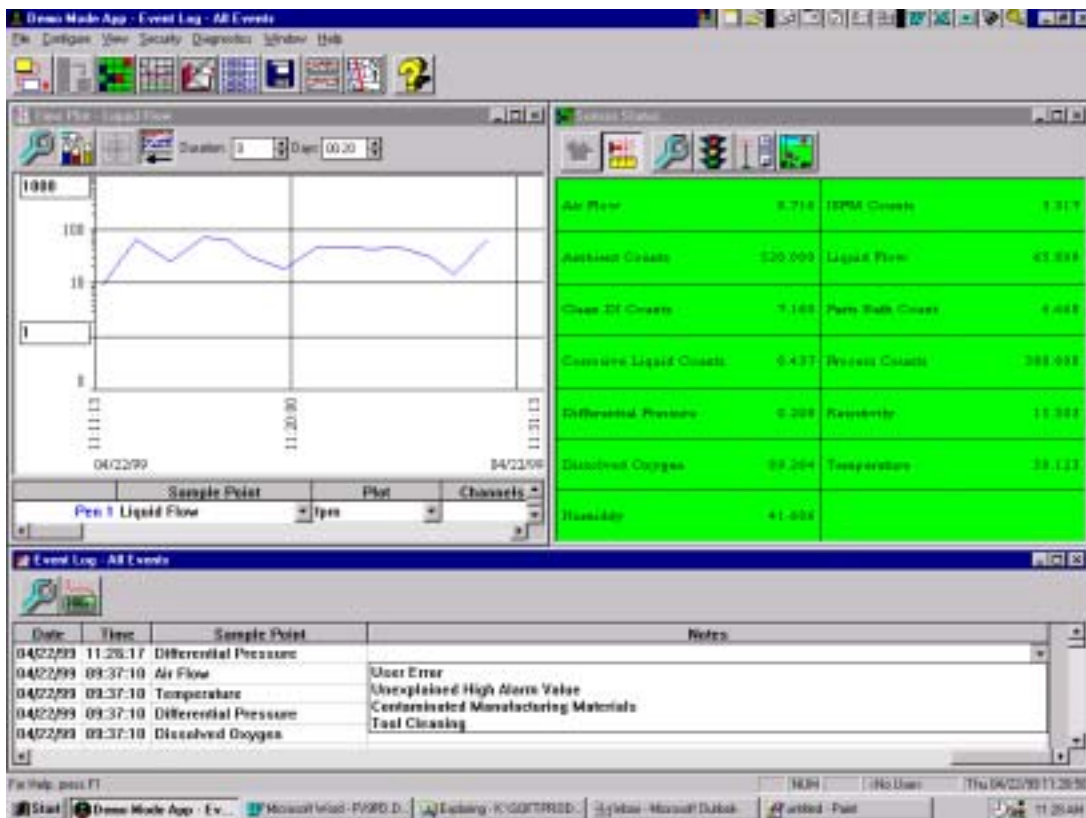


Facility Net Product Description

Facility Net (Fac Net) is a Windows® software package providing collection, storage and analysis of data reported by Particle Measuring Systems' instrumentation and other facility monitoring devices such as third party particle counters, air flow velocity, DI resistivity, dissolved oxygen, temperature, absolute pressure, differential pressure and relative humidity sensors. Fac Net runs on a personal computer in a Microsoft Windows NT & 2000 environments and employs advanced Windows features such as the Multiple Document Interface (MDI) and Ethernet Networking. Fac Net uses the Windows standard for a graphical user interface with familiar keyboard and mouse operations so that any experience you may have with other Windows type interfaces will translate into less time required to understand and use it.



The Fac Net software architecture is made up of two discrete components. The basic Fac Net system is the Real Time Station (RTS.) The RTS is responsible for sensor connectivity and configuration. The RTS is the primary system sample and event data storage. The RTS is a standalone system, and in many cases satisfies all the customer's facility monitoring requirements.

Fac Net Networking is an extra cost option, and allows the user to distribute data collected by the RTS to multiple network terminals distributed throughout the facility. See the networking section for a more detailed discussion of the network option.

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What's New?

Fac Net includes the following enhancements:

32 bit Windows NT/2000 Compatibility

Fac Net is a full 32-bit application compatible with Windows NT and 2000 on the Real Time Station, Network Control Unit (File Server), and Network Station.

Database/Networking Model

Changes to the sample point name will no longer affect data retrieval.

Fac Net Network Stations simultaneously link to multiple directories for multiple Real Time Stations rather than one merged database.

Daylight Savings incompatibilities resolved by basing databases on GMT.

Conversion utility to update old databases.

Diagnostic/Sensor Information

Task I/O diagnostic features (Port Test, Port Communications, Debug File, and Port Errors) integrated into Fac Net Diagnostic/Sensor Information.

Event Log

Use entered default notes added to 'Comment' field.

Generic Driver

Particle Measuring Systems RS-232 sensors (Lasair®, MicroLPC, MicroLPS, PDS-PA, PDS-PB) added to Basic Serial Communications Driver.

Job Generator

Job Generator replaces Report Generator. Reports triggered by time, alarm/event, or value.

Three output formats – printer, dynamic file, and static file.

On demand run button.

Enhanced Statistics Report.

Pager and Email Functionality

Alphanumeric paging.

Paging activation by work hours.

Watchdog paging.

Email of alarm conditions to system users.

Plots

Modifications to the toolbar add tool tips and change the appearance of icons while furnishing the same functionality.

Tool tips are added to plot values. Moving mouse over a plot point will identify the pen and display value, date, and time.

Enhanced plot filters remove samples of questionable statistical significance such as outliers or fliers.

Sensor Runtime Configuration

New user configuration interface.

Security

Enhance security features to meet current pharmaceutical requirements (21CFR11).

Network security controlled from RTS.

UPGRADE CONSIDERATIONS

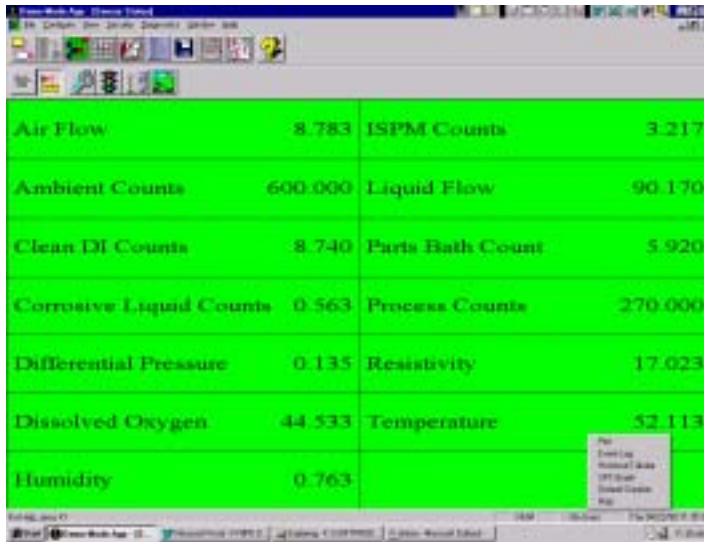
A percent of total counts (per channel) histogram is included with the Historical Tabular and Sample Point Tabular displays.

DDE replaced with OPC server and client capabilities.

Fac Net data files not readable by Facility View.

Viewing Data

Fac Net provides numerous views of system data. Each view is an MDI window that can be independently configured to meet your needs. Multiple Views can be displayed simultaneously and arranged on the computer screen to create a custom look and feel. Moving between displays is as easy as clicking a mouse. Each of the views is described below. All Fac Net display parameters are saved when the program is terminated and recalled on program restart to preserve the look and feel of your display arrangement.

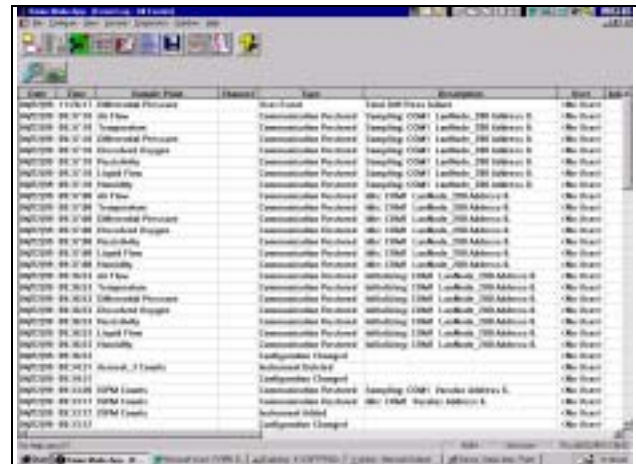


Air Flow	8.783	ISPM Counts	3.217
Ambient Counts	600.000	Liquid Flow	90.170
Clean DI Counts	8.740	Parts Baths Count	5.920
Corrosive Liquid Counts	0.563	Process Counts	270.000
Differential Pressure	0.135	Resistivity	17.023
Dissolved Oxygen	44.533	Temperature	52.113
Humidity	0.763		

The **Sensor Status Display** shows the current status of each sensor, including its numeric value and alarm state. The Status View displays the most recent value received from each *Sample Point*¹ as well as the color-coded status of each *Sample Point*. You can customize the Status View by selecting the *Sample Points* to be displayed. You can click on any *Sample Point* in the Status View to select from a list of other displays for that *Sample Point*. The primary purpose of Fac Net is to monitor a

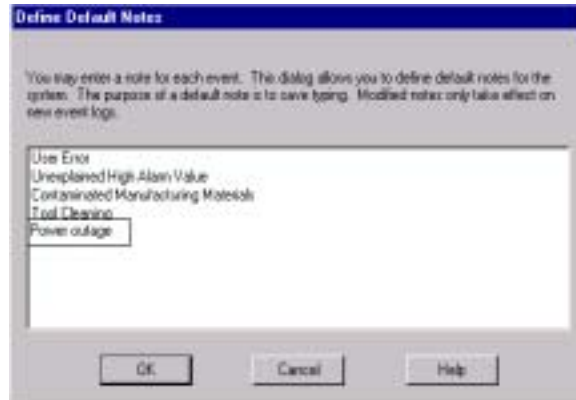
system in real time, thus the Status View display can be considered the primary display for Fac Net.

The **Event Log Display** is a powerful, computer generated audit trail and shows the events stored by Fac Net. Reported events include operator log on/off, alarm indication, system start-up/shut-down, instrument configuration, communications errors, and user entered events. Event Log Views can be configured to display events as they occur (real time) or past events can be recalled for review.



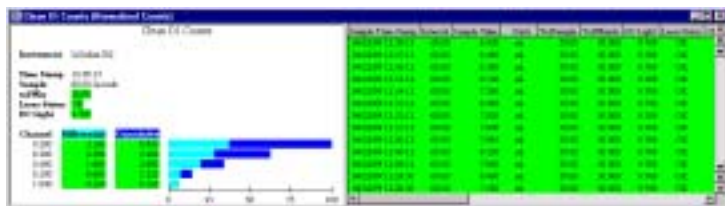
Time	User	Event	Value	Unit	Alarm	Start	End
10/10/00 11:00:00	Administrator	System Start					
10/10/00 11:00:00	Administrator	System Stop					
10/10/00 11:00:00	Administrator	System Start					
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A 'Default Notes' dialogue allows the user to enter default notes for the comments field.



The **Tabular Display** shows numeric data in a spreadsheet format. You can display *Sample Point* information in three **Tabular Display** formats.

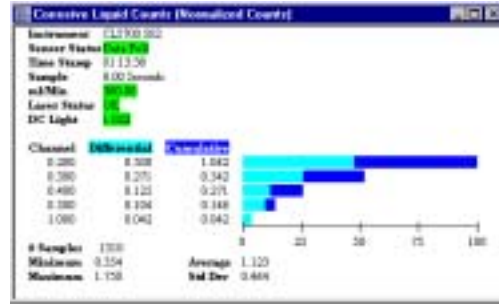
The **Real-time Tabular Display** indicates the current state of all *Sample Points*. Real-time tabular data includes the *Sample Point* name, instrument name (some instruments have more than one *Sample Point*), the most recent value, the number of samples, daily statistics, values for each channel of each *Sample Point*, instrument status and other related information.



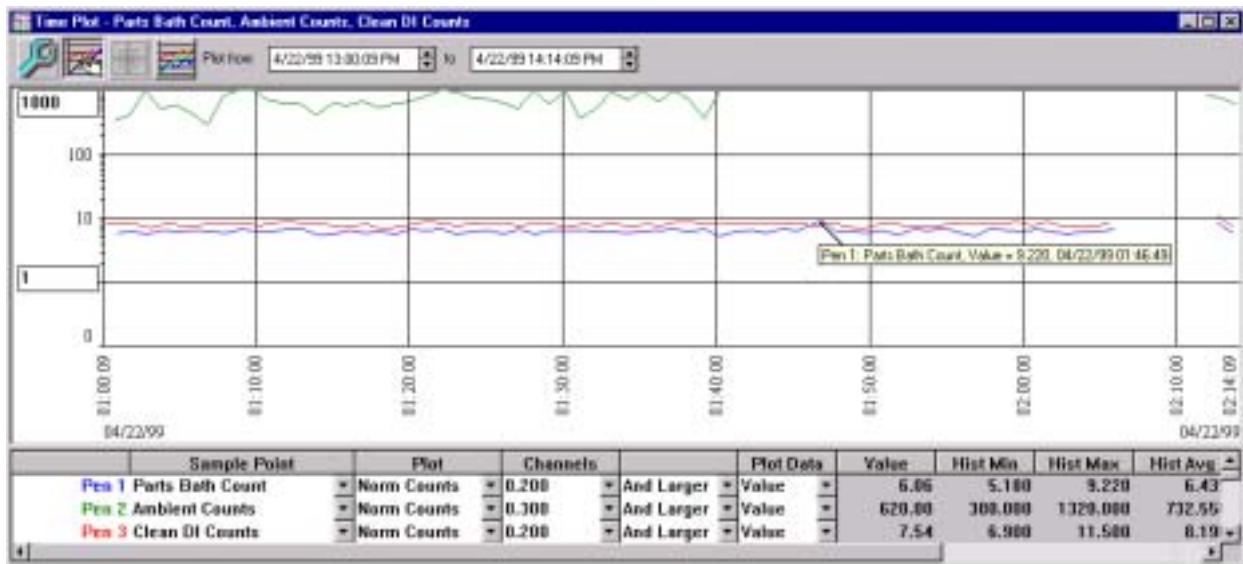
The **Historical Tabular Display** allows you to extract large amounts of data for any single *Sample Point* from the Fac Net database and display it in chronological tabular format. This can be useful in conjunction with

the Event Log or Time Plot to quickly spot items of potential interest, then use the Historical Tabular Display to view detailed sample information. The display includes a percent of total counts histogram.

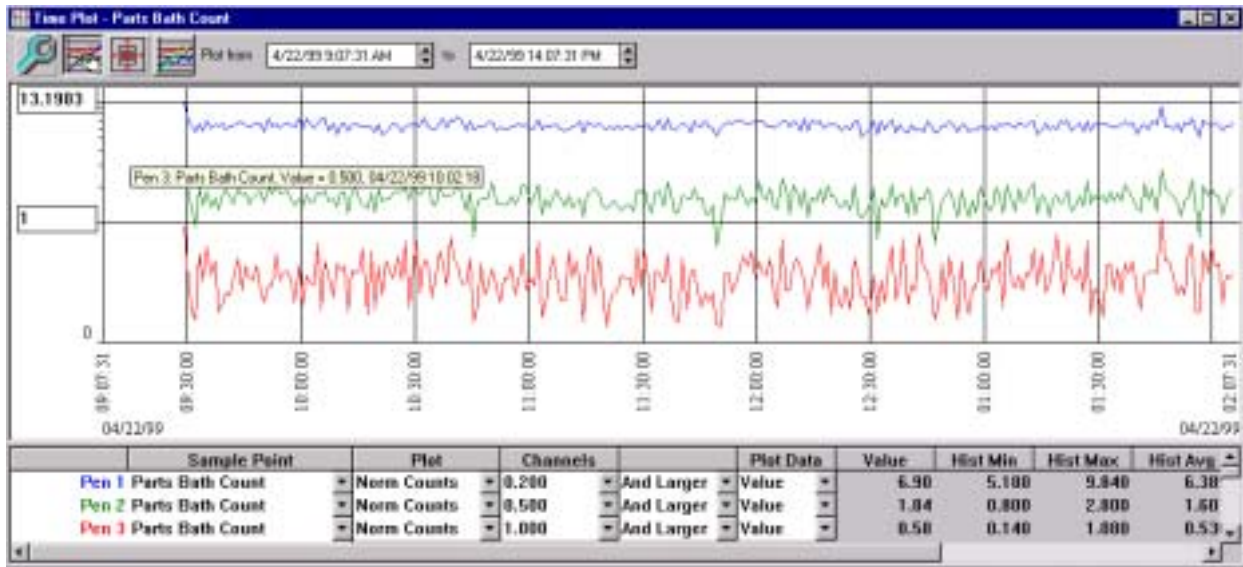
The **Sample Point Tabular View** displays details about the last sample for a single *Sample Point* including the alarm status of each channel. The display configuration is designed to allow you to quickly analyze the data from a single *Sample Point* at a glance.



Plot Views provide trending line graphs of data with up to ten color-coded pens. Each Plot View employs a combined time plot and configuration spreadsheet. You can tailor each Plot View to your needs by selecting the *Sample Points* to be displayed for each pen. Time plot data can include particle, environmental and text *Sample Points*, alarm and warning limits, moving averages, and instrument detector (DC) light levels. You can zoom into any data displayed on the Plot by clicking and dragging in the plot to highlight the time range in which you are interested. A ToolTip provides plot point specific sample point name, value, date and time.



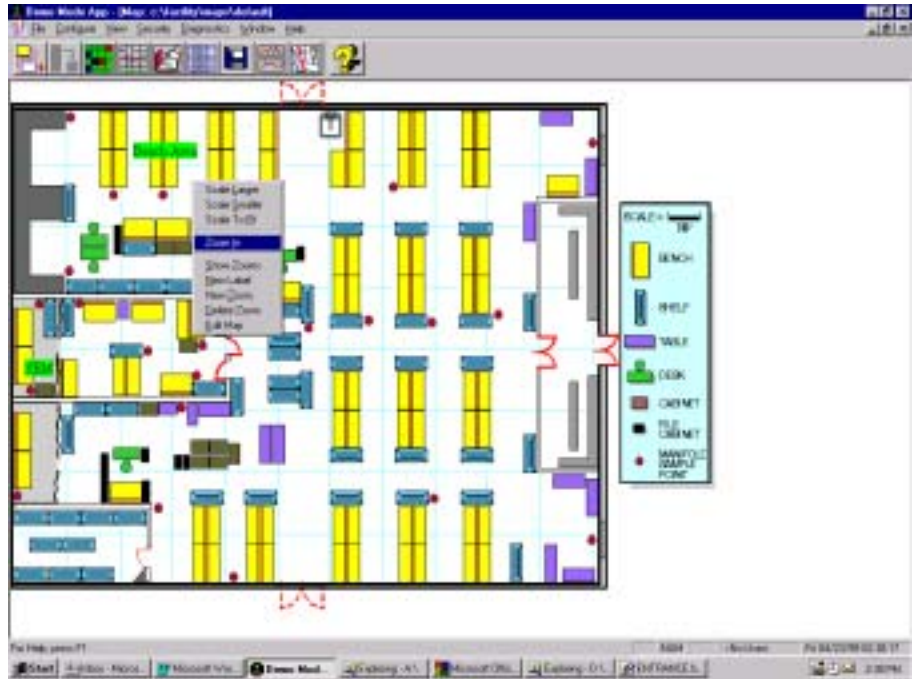
For particle *Sample Point* time plots you can select either a cumulative or differential² display format for any channel of the instrument. Time plots can have the abscissa (vertical axis) displayed with a log or linear scale. Time plots can display either real-time or retrieved data. Fac Net supports simultaneous multiple plots of real-time and retrieved data. Plot formats can be stored and retrieved by name for quick analysis.



Fac Net allows creation and plotting of Text *Sample Points* as well as Particle and Environmental *Sample Points*. In the example at left, a Text *Sample Point* is used to store the sample position of an aerosol manifold working with an air particle counter. The plot displays the manifold position and the particle counts seen at each position.

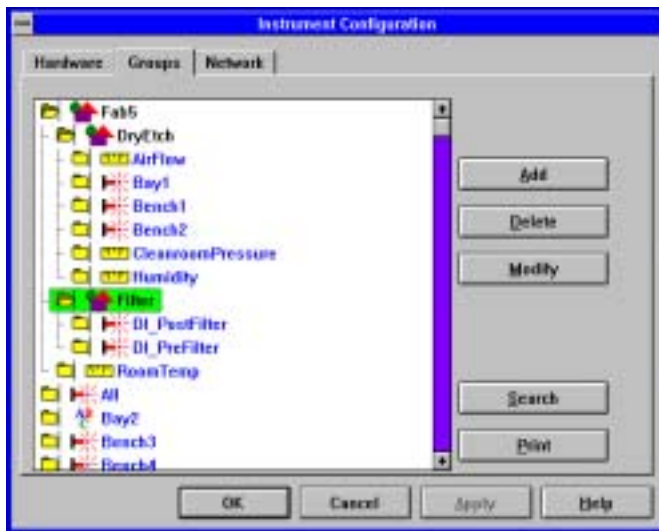
² Cumulative in this context means all counts seen by the sensor at or above the lower threshold of the selected channel of the particle instrument. Differential means only the counts in the selected channel of the instrument.

The **Map View** allows you to incorporate a map, photograph, diagram, flow chart or other graphic image for facility monitoring. The status and latest value from selected *Sample Points* and Groups of *Sample Points* of your choice are displayed and updated in real-time. You can designate zoom areas anywhere on a Map to allow more detailed diagrams to be displayed. You can have as many maps and zooms as system resources allow. Any diagram in Windows bitmap (.BMP) format can be used as a Map or a zoom. You can add, reposition, or remove *Sample Points* as desired. The map background can be edited while running Fac Net using the Windows Paintbrush program.



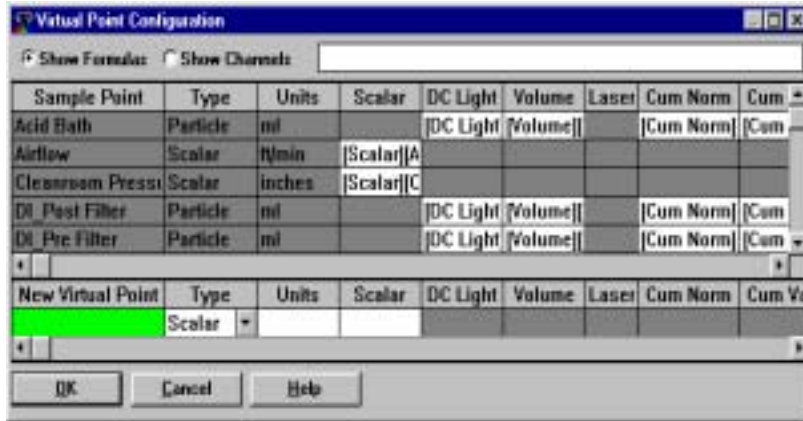
Configuring The System

Fac Net provides an on-the-fly configuration utility. The configuration utility allows you to add, remove or modify instrumentation connected to the system. The on-the-fly capability virtually eliminates loss of data when the system is expanded or instruments are removed for maintenance. All data views are automatically updated to reflect these changes. Fac Net supports many different instruments, and will be set with the proper instrument drivers at the time of order.



Fac Net allows you to group *Sample Points* together in meaningful combinations. In this example DryEtch includes Particle, Pressure, Air Flow and Humidity *Sample Points*. Fab5 includes the items in the DryEtch and Filter groups plus the RoomTemp *Sample Point*. Groups may be used to display the status of a large number of *Sample Points* in a relatively small space. The status of a Group may be displayed on the Status View and on the Map. The status displayed represents the highest priority alarm of any *Sample Point* in the Group. Through *Sample Point* grouping, Particle Measuring Systems' external alarm

devices can be tied to the status of the *Sample Points* in a group.



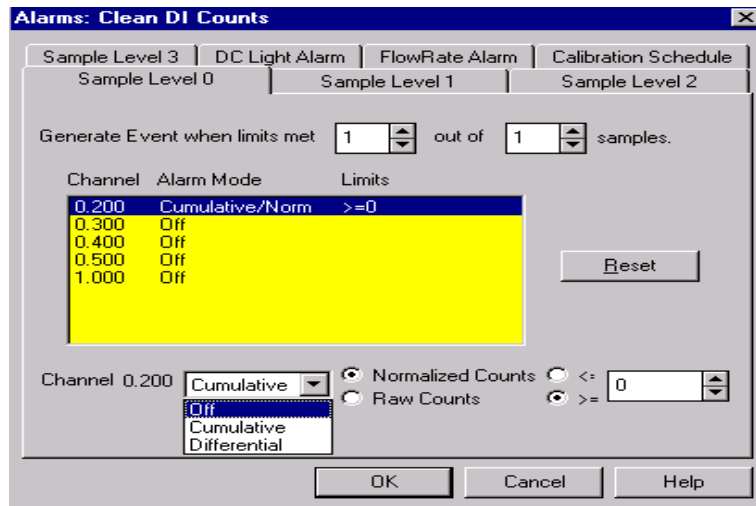
Fac Net provides a powerful data manipulation capability called **Virtual Sample Points**. A Virtual Point is a user-created imaginary sample point that can apply arithmetic and logical operators to other existing sample points. A **Virtual Sample Point** can be used in Fac Net just as any other *Sample Point* in data

storage, status and map display, plots, data validity, alarm generation, and report generation. **Virtual Sample Point** operations include:

Operator	Description	Functions	Description
+	Add	ABS(a)	Absolute value of a
-	Subtract	ADD(a,b)	Adds two values together
*	Multiply	IF(a,b,c)	If (a!=0), then the value is c
/	Divide	NEG(a)	Returns the negative value of a
=	Total	NOT(a)	Returns the logical NOT of a value
:	Sum Range of Cells	ROUNDUP (v,p)	Rounds the value v up to the next integer (p=precision)
^	Power	LOGRED(a,b)	Returns the log reduction of a by b (loga/b)
	Logical OR	TRUNCATE(v,p)	Returns the value of v truncated at the given precision
&	Logical AND	FILTEFF(a,b)	Returns the filter efficiency between a and b [def. As 100*(a-b)/a]

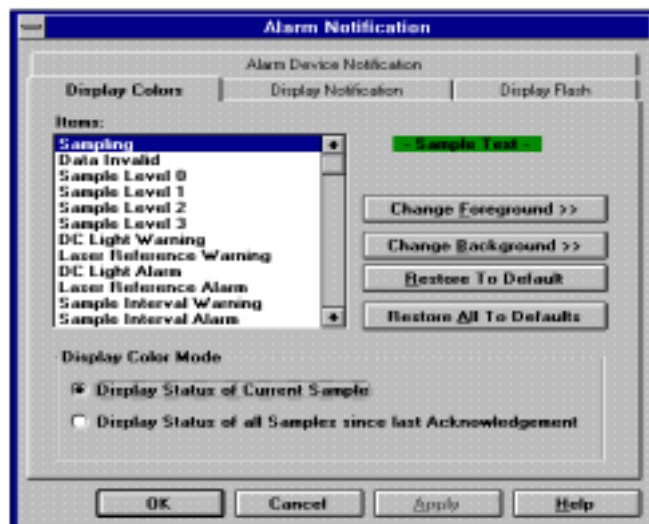
Alarms and Events

You can set up to four alarm levels for each *Sample Point* in Fac Net. For particle *Sample Points* you can set these levels on the cumulative or differential value for each channel of the instrument. Groups of like *Sample Points* can be selected for simultaneous modification of alarm parameters. For each alarm level you can set a ratio (called the SPC Instability Ratio) of sample intervals with alarms to total consecutive sample intervals. You could, for instance, set this ratio so that an alarm event is generated only when at least four samples out of six consecutive samples exceed a limit

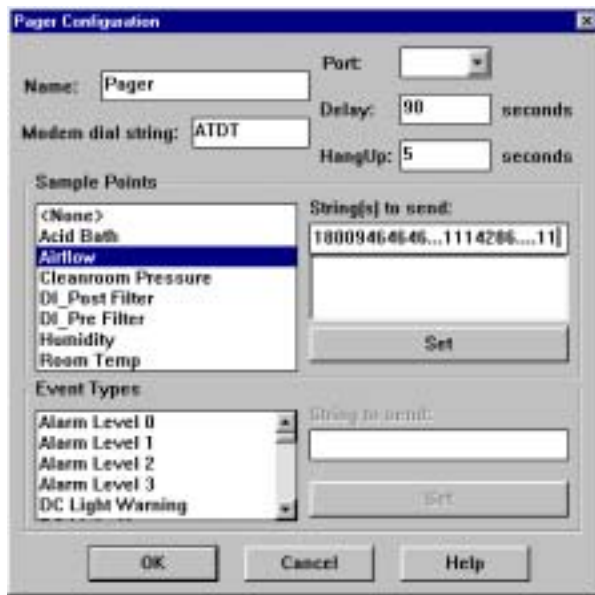


When an alarm event occurs, the color of the Status area for that *Sample Point* on the Status View changes to reflect the new condition. You can select the Display Color Mode to either display the status of the current sample or to display the highest priority alarm since the last alarm acknowledgment. Sensor problems, such as laser power, sample cell light level, and communications are also reflected in the color of the Status View area for all *Sample Points* associated with the sensor.

You can customize the colors used to represent *Sample Point* status to match your corporate standards.



Fac Net enables you to acknowledge alarm events and records the acknowledgments. You can associate each *Sample Point* or group of *Sample Points* with an external alarm device to produce a visual or an audible indication of an alarm event at any desired location

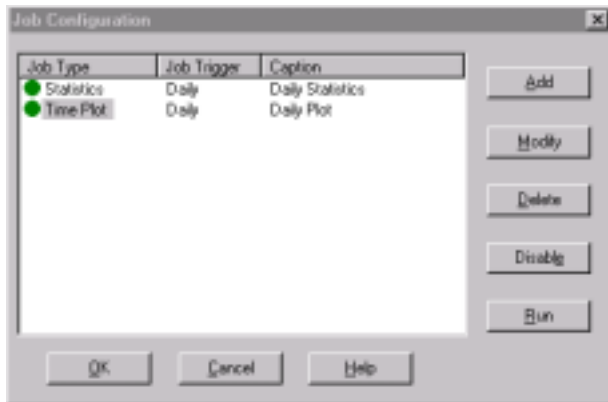


Fac Net can notify you via alphanumeric pager of system events and alarms. Information about the *Sample Point* and event type can be sent in a message transmitted by Fac Net to your pager via a modem and your pager company.

Note that while this pager feature is a standard component of the Fac Net software, it requires a modem, which may not be a standard component of your computer.

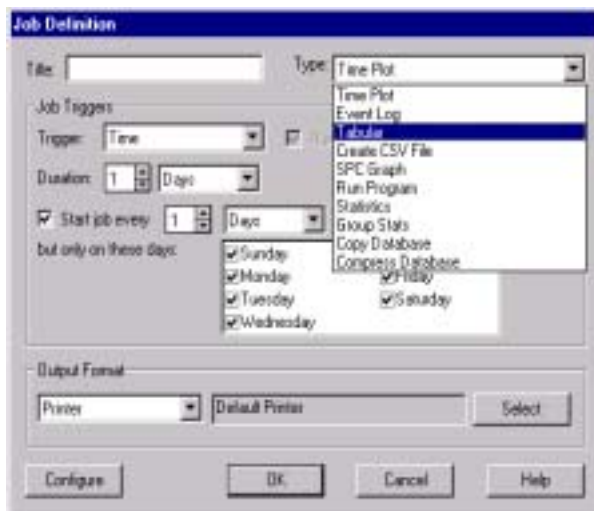
The system can also be configured to email your system users should an alarm condition occur.

Reports/Jobs



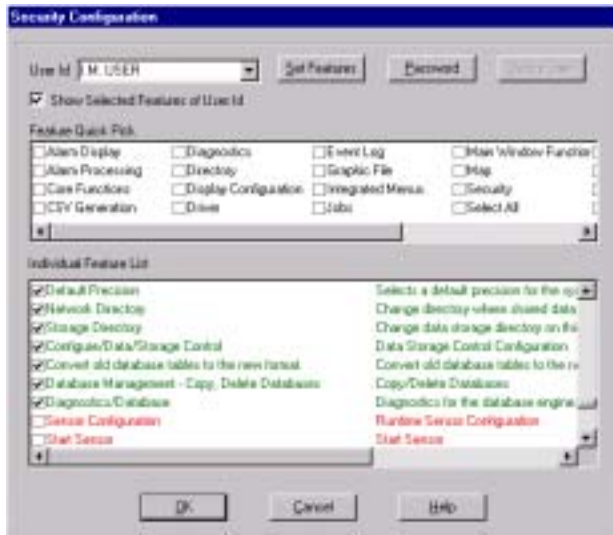
Fac Net incorporates a comprehensive job/report scheduler and generation facility. You can schedule a variety of reports and jobs to be generated monthly, weekly, daily or upon demand, from an alarm excursion or trigger, or from a manual request for a report.

The following job/report types are provided:



- Event Logs
- Time Plots
- WEB compatible formats
 - BMP
 - JPG
 - PCX
 - PNG
 - Metafiles
- Tabular Displays
- Statistical Summaries
- Text Data (CSV) File Creation
- Database Backup
- External Program Execution
- Recipes
- Sensor Status

Security



Fac Net allows you to control access to the system on a feature-by-feature basis. This permits the system administrator to assign specific privileges to specific individuals, and helps prevent unauthorized operation of the software. The user shown has access to display and reporting functions but cannot change key values or exit the system. The security system can be configured to automatically log-off the current user after the system has been idle for a specified period of time.

The security for Fac Net has been designed to meet the most stringent of standards. Remote network terminals can use the security from the RTS; printing of security eases system administration.

The “look and feel” of the Fac Net display is connected to each user’s login. If you were looking at a specific set of displays the last time you were logged into the system, the same displays will be recreated when you login the next time.


Help



An on-line, context sensitive help system is available to assist when you need additional information about Fac Net functions. This feature is extremely useful when initially learning the system.

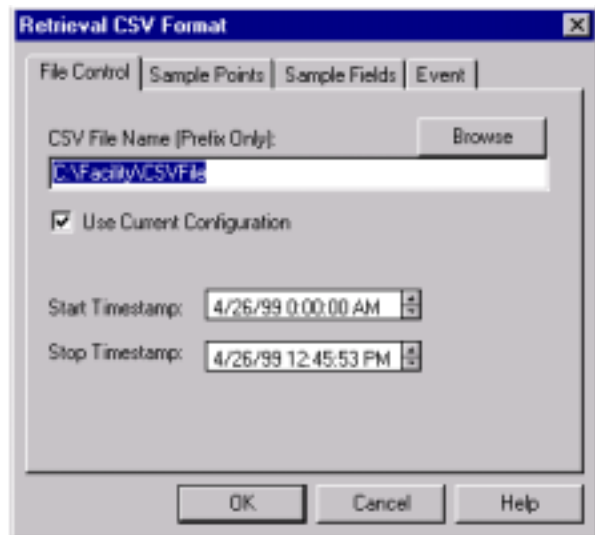
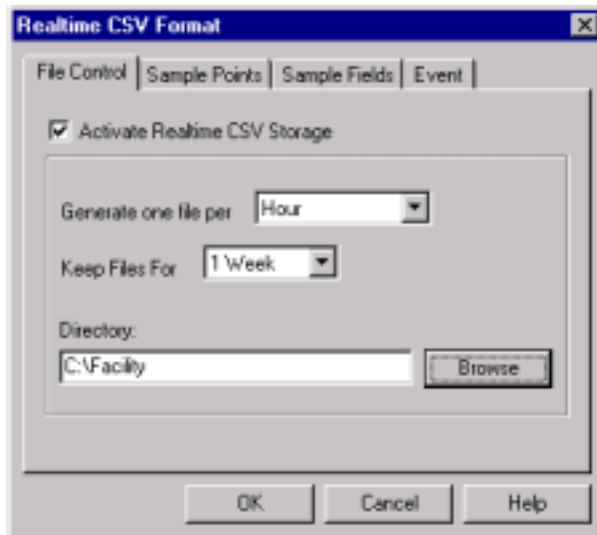
Data Sharing and Handling

Although Fac Net provides very powerful data analysis capabilities it is occasionally necessary to export data in a form usable by other programs. Fac Net provides several data sharing and export features:

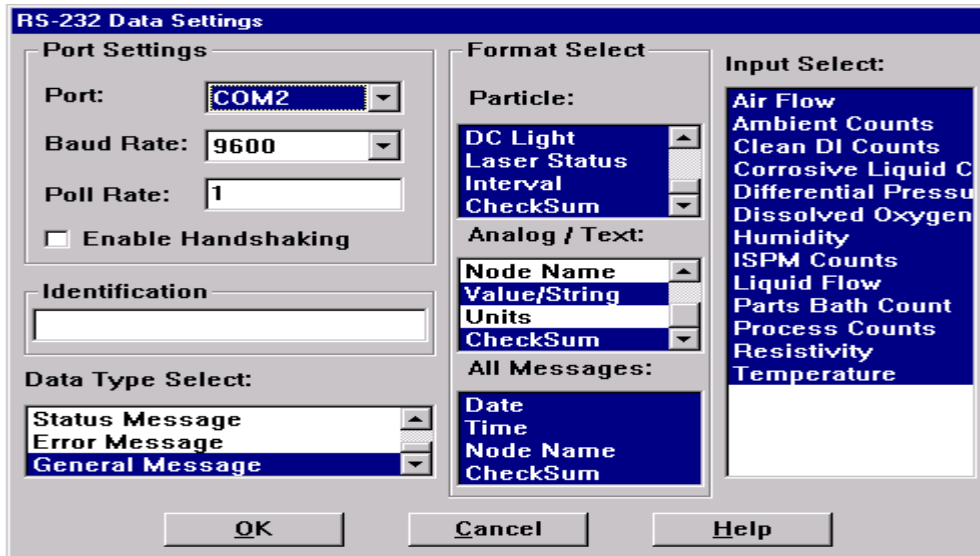


Air Flow	40.313	INPM Counts	2.983
Ambient Counts	680.000	Liquid Flow	62.531
Clean DI Counts	7.780	Parts Bath Count	5.580
Corrosive Liquid Counts	1.479	Process Counts	320.000
Differential Pressure	0.034	Resistivity	13.336
Dissolved Oxygen	24.372	Temperature	3.616
Humidity	33.008		

1) Fac Net has three functions, 'Real Time, Retrieval, and Job Generator,' to export data from the Fac Net database to a Comma Separated Values (CSV) file on disk. Each function allows the user to select the *Sample Points* and the period of time over which the data was collected.



2) Fac Net will transmit the raw data from each *Sample Point* in real-time to another computer via RS232 link.



3) Fac Net can act as a TCP/IP server to share information in real-time with other non-Fac Net systems over a network including the Internet.

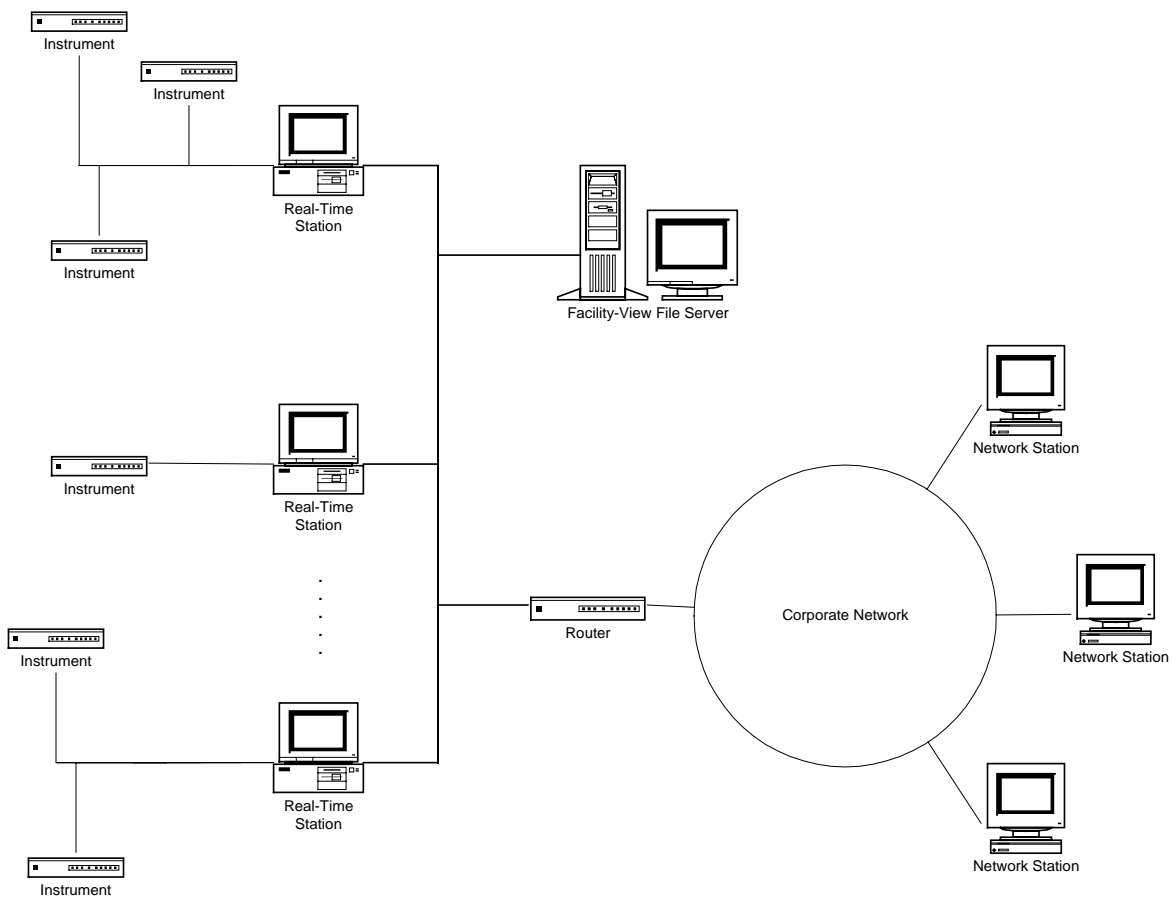
4) Fac Net can act as an OPC server, or client, to share real-time information with other non Fac Net systems over a network.

5) Fac Net will communicate with other Fac Net stations over an Ethernet network. See the discussion entitled "Networking" for more detail.

Networking

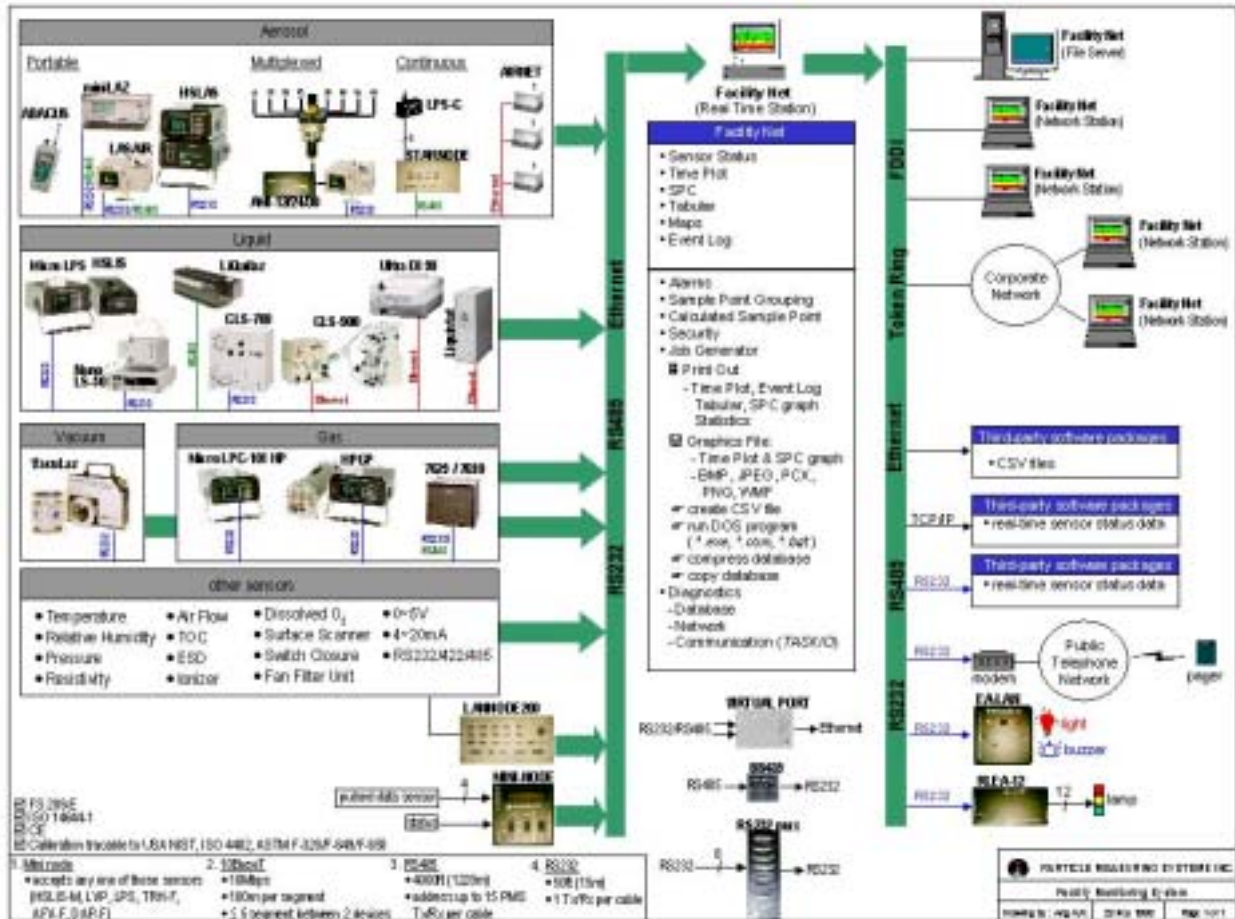
The Fac Net network option offers a powerful real-time networking capability. Fac Net systems physically connected to and receiving data from instrumentation (Real-Time Stations), can broadcast data in real-time over an Ethernet connection to other Fac Net systems not actually connected to instrumentation (Network Stations). Fac Net systems are compatible with Token Ring Networking as well, providing TCP/IP protocols are used. Please contact the factory for compatibility with other types of networks.

Through real-time networking, you can view and analyze data from the convenience of your office. Your office Network Station can be configured to display data from any combination of instruments reported from the Real-Time Stations, through use of a central File Server. A typical network architecture might look like:



This distributed client-server networking architecture allows the configuration of extremely large systems with the use of multiple inexpensive personal computers.

A detailed representation of the Fac Net Solution:



FACILITY NET SPECIFICATIONS

Instrumentation supported: AirNet®, CLS-700, CLS-900, CLS-1000, DL/F, EA-LAN, IM 420, LAN-Node, LASAIR (with or without Aerosol Manifolds), Lasair II, MiniNet, LiQuilaz E20/S02/S03/S05/WS, LiQuiStat, LPGS, LPS-A-110, LS-50, LS-200, Micro-LPC, Micro LPS, MiniNode, Nano 100M/100S, PDS-PA, PDS-PB, RLEA, StarNode, VacuLaz. Fac Net also supports non-Particle Measuring Systems, 3rd party instruments. Please refer to the latest Fac Net Software Driver List for more detail on specific models supported.

Minimum computer equipment required: Pentium 300MHz or faster microprocessor with at least 64 MB of RAM, >6GB fixed disk, 1.44 Mb 3.5" floppy disk, CD ROM Drive, 17" SVGA monitor 800x600 256 color resolution, PS/2 mouse port and mouse, parallel printer port, enough RS-232 communication ports to support sensor configuration (consult factory), network interface card. If the pager feature is used, an internal or external Hayes compatible modem (baud rate at least 14400) is required.

Recommended printers: The following color printer is recommended:
Cannon Bubblejet Color Printer

Software required: Windows 2000 or Window NT4.

Maximum number of *Sample Points* supported: Contact Factory. This will vary depending on sensor count, sensor type, sample interval, etc.

Maximum number of *Sample Points* plotted simultaneously on one plot: 10.
Note that many plots can reside on a single screen. The actual maximum number of plots is a function of screen size, resolution, and resources.

Warranty: One year; Particle Measuring Systems also provides telephone support for software products beyond the warranty period.