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I. Installation and Setting:

Requirements:

1. A PC Running Windows 95/98/Me/NT 4.0/2000/XP/Server 2003.
2. An available serial port that is assigned to COM1, COM2, COM3, COM4 or an available USB port.

Installation:

1. The software will communicate with the UPS by either Serial or by USB.

Serial Communication: Attach the included serial cable to the UPS and to the COM Port on the PC. Note that you must use the included cable. A standard 9-pin serial cable is not supported.

USB Communication: Attach the included USB cable between the USB port on the UPS and the USB port on the PC.



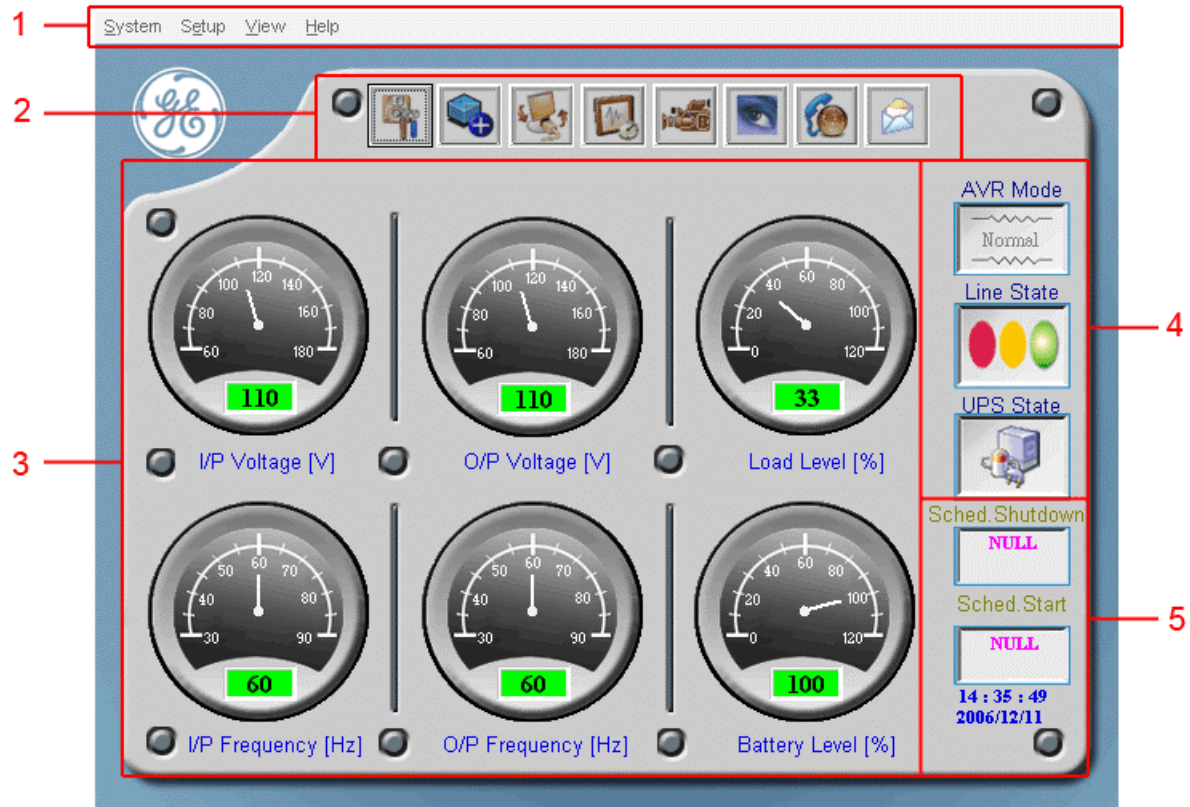
Note: Only connect one communication cable between the UPS and the computer.

2. Insert the Installation CD and follow the on screen messages to install the software

II. Screen and Function Description:



When the software is first launched, it will run as an icon in the system tray portion of your taskbar. In order to view the main window you must double-click on the GE icon in the system tray.



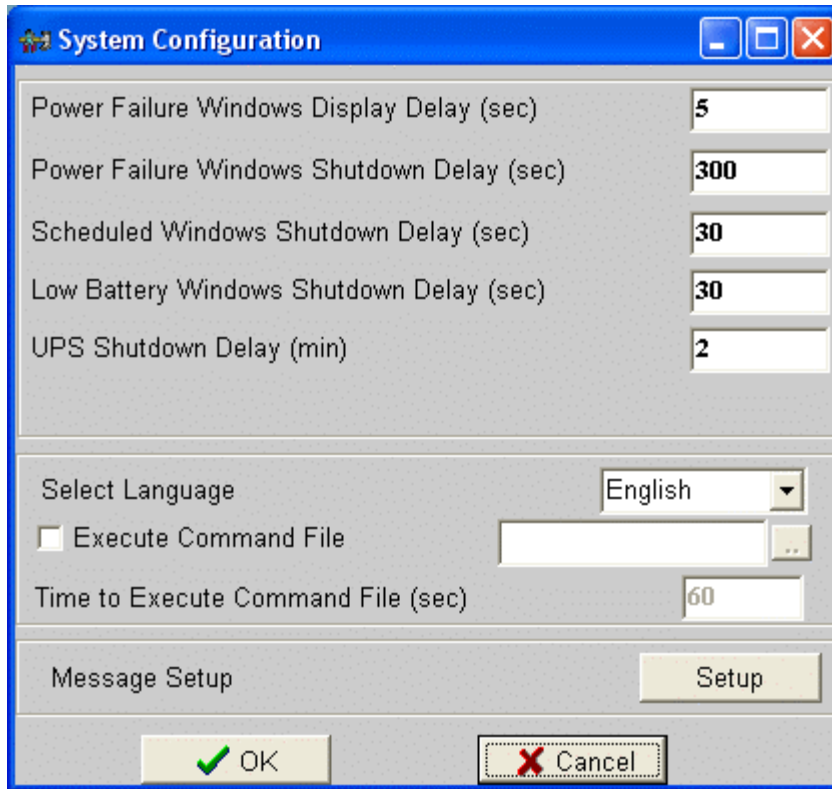
Main status display: This is the main monitoring & status display.

1. Function Menu
2. Tool Bar
3. Meter Display
4. UPS Status
5. Shutdown Schedule

1. Function Menu:

1-1. System:

A. System Configuration



Power Failure Windows Display Delay (sec): Delay after power failure before any action is taken. This delay is designed to avoid pop-up messages or shutdown windows from appearing during short duration power failures. This value should be set to a short amount of time. (Allowable range is 0 to 999999999 seconds)

Power Failure Windows Shutdown Delay (sec): This is the primary shutdown delay. This timer begins to count after the pre_count delay has expired. If power is restored during this delay, the system will resume normal operation. At the end of this delay, the software will begin the Windows shutdown process. Once the Windows shutdown process begins it cannot be aborted. This timer should be set for the expected run time of the UPS. (Allowable range is 0 to 999999999 seconds)

Scheduled Windows Shutdown Delay (sec): This delay will begin during a scheduled shutdown. This will provide the user at the computer time to abort the scheduled shutdown. This is typically set to a minimal value. (Allowable range is 0 to 999999999 seconds)

Low Battery Windows Shutdown Delay (sec): This delay will begin when a low battery is detected. It is recommended to keep this value at a minimal value so that the system will have time to shutdown before the battery expires. (Allowable range is 0 to 999999999 seconds)

UPS Shutdown Delay (min): Time between the beginning of the Windows shutdown process and UPS Shutdown. This time should be set to a value that will give the computer enough time to shutdown properly. (Allowable range is 0 to 999999999 minutes)

Execute Command File: Enabling this setting will allow you to run an external command file prior to Windows shutdown. This command is run after the "Power Failure Windows Shutdown Delay" timer expires. This feature extends the functions of the software to trigger any external program. Functions such as, issuing shutdown scripts to other computers, writing to external logging files, and custom notifications can be added through external software.

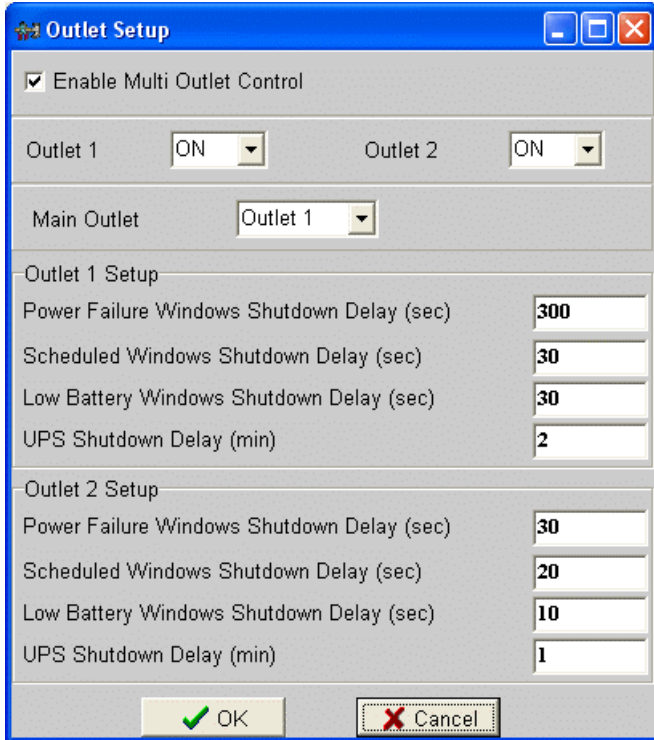
Time to Execute Command File (sec): This delay sets the time between launching the external command file and the beginning of the Windows shutdown process. This timer should be set to the time that it will take for the external command file to complete. (Allowable range is 0 to 9999999999 seconds)

The process of monitoring program to shutdown the UPS is described as follows:

Event	Action Taken	Action If Power Restored
Power Failure	Start Sequence	All actions canceled
Power Failure Windows Display Delay	Wait and Take No Action	
Power Failure Windows Shutdown Delay	Display a dialog box with a countdown timer and an abort option	
Time to Execute Command File (optional)	If enabled, the specified command will run. The system will wait the specified amount of time for the command to complete	Unit will complete the shutdown process. After the UPS switches off, the unit will check for line power. Once power is restored, the unit will turn back on.
UPS Shutdown Delay	Wait the specified amount of time and then turn off the outlets on the UPS unit.	

Select Language: Sets Program Language

Outlet Setup (Appears only on UPS models that support these functions - Not supported by all UPS models)



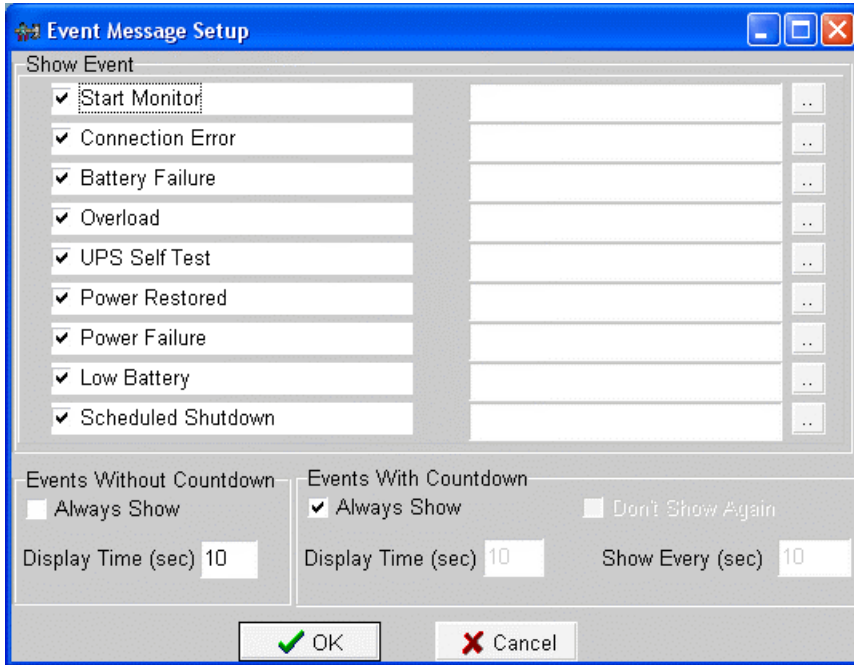
Enable Multi-Outlet Control: Check this box to enable individual settings for the outlets

Outlet On/Off: Enable or disable each controllable outlet

Main Outlet: Defines the primary outlet

Outlet Setup: Individual settings for each outlet. The outlet settings are the same as described in section [1-1.A](#)

Message set up



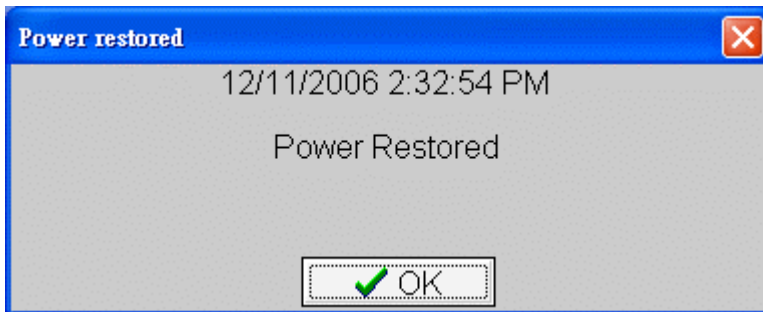
This screen configures the messages and responses to UPS events.

Show Event: This section displays the configurable events. When checked, the program will display a pop-up window to notify the user of the event. The right column allows for an external command to be executed in response to a UPS event. This action is optional, however it can be used to extend the function of the software to add custom notifications.

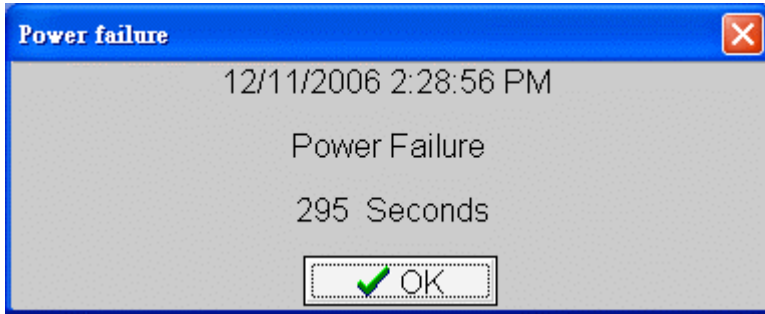
Events Without Countdown: This section configures the display of events that do not include a countdown timer

Events With Countdown: This section configures the display of events that include a countdown timer

Sample Notification Pop-Up Window (no countdown):

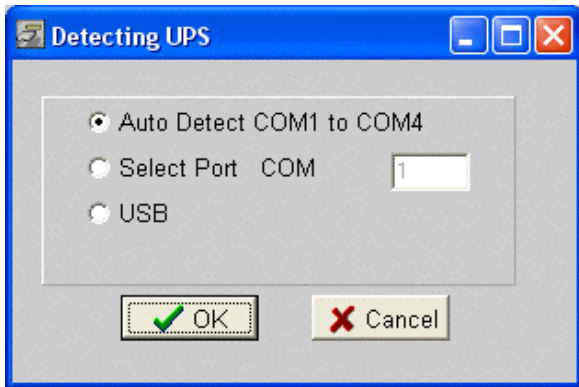


Sample Notification Pop-Up Window (with countdown):



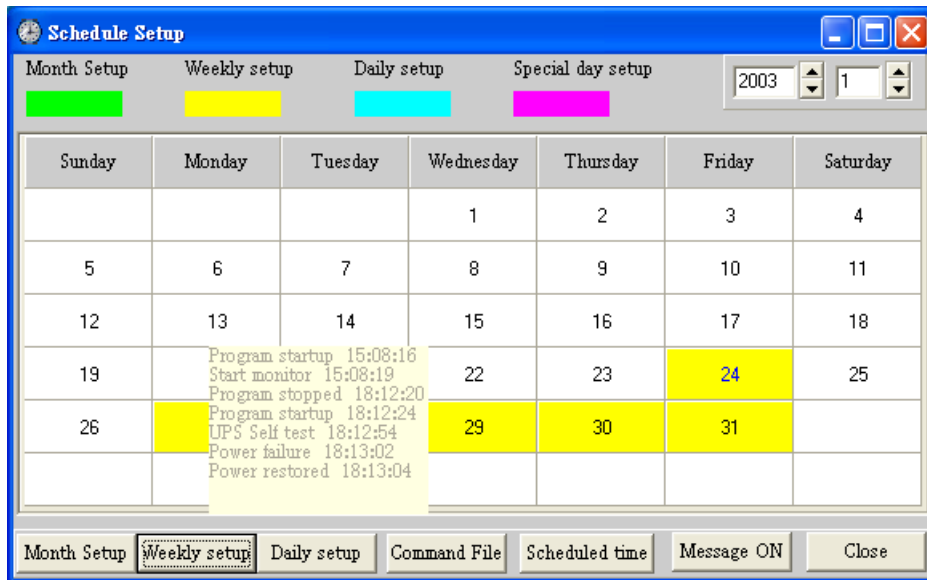
1-2. Settings:

A. Communication Port



The UPS unit can be configured to communicate on COM1, COM2, COM3, COM4, or USB (UPS models with built-in USB support only). The recommended setting is to allow the software to Auto Detect the communications port. If detection fails, the port can be configured manually. Please note that only the serial cable provided with the unit can be used. Other cables not supplied by GE cannot be used.

B. Scheduling



Use the calendar display to schedule start-up, shutdown, self tests, and user defined commands.

Month Setup: Configures events that will happen on a specific numbered day of the month. For example; run a self test on the 15th day of every month.

Weekly Setup: Configures events that will happen on specific days of the week. For example; shutdown every Friday night and start up again every Monday morning.

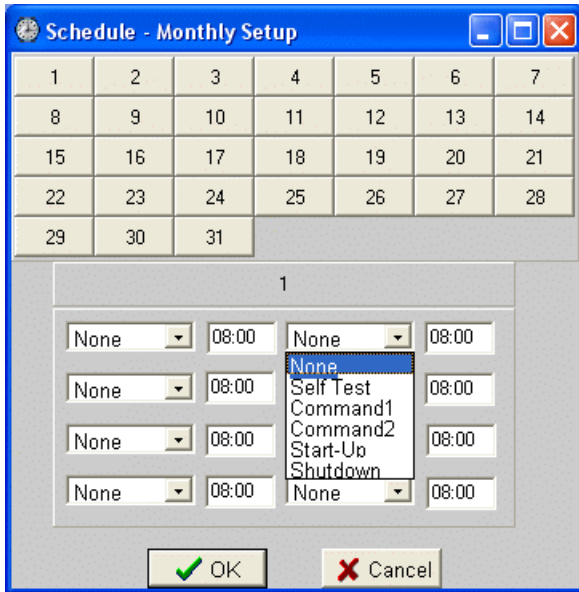
Daily Setup: Configures events that will occur at the same time every day. For example; run a self test every night at midnight.

Command File: Defines two external command files that can be executed on the schedule. Typical usage would be to send notification to an external logging system after another scheduled event like a scheduled shutdown.

Scheduled Time: Displays the stored scheduled events

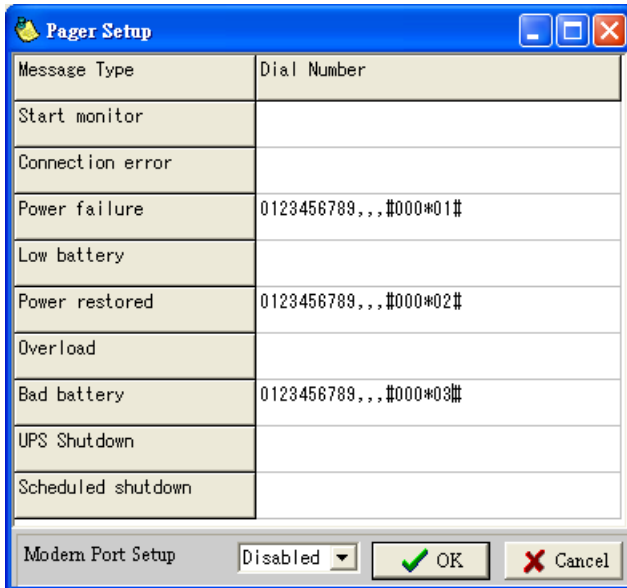
Message ON/OFF: Toggles display of event messages to the user.

Event Configuration Window:



The software allows for 8 events per scheduled item. To schedule an item, select the action from the drop-down box and enter the time of day to run the action.

C. Pager Notification



If a modem is attached to the system, the software can be configured to dial a pager and include a numeric message code.

A dial number consists of 3 parts; Phone Number, a pause to ensure that the call is connected, and a series of digits to be sent to the pager.

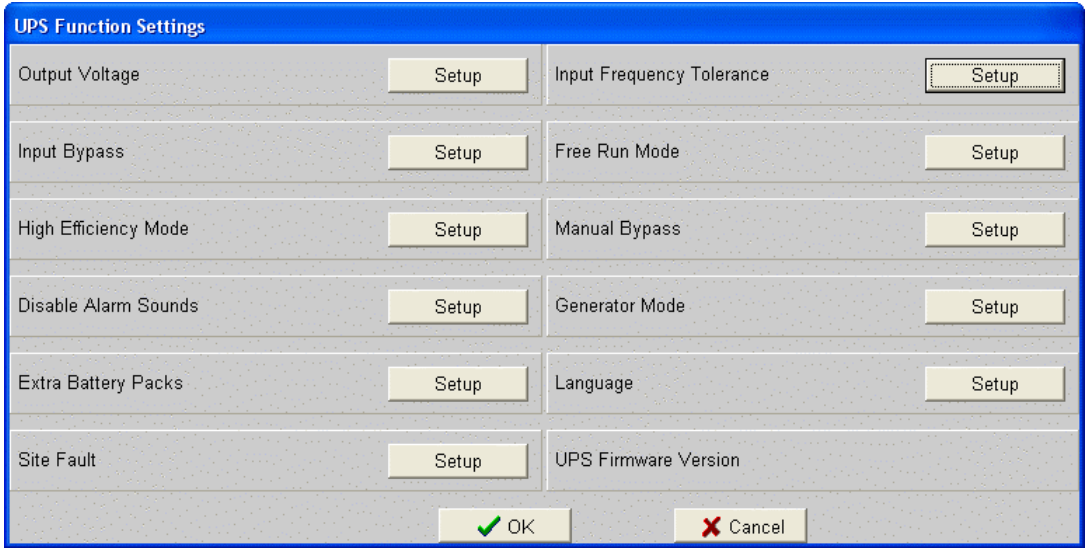
Example: 0123456789,,,#000*01#

<0123456789> Pager number

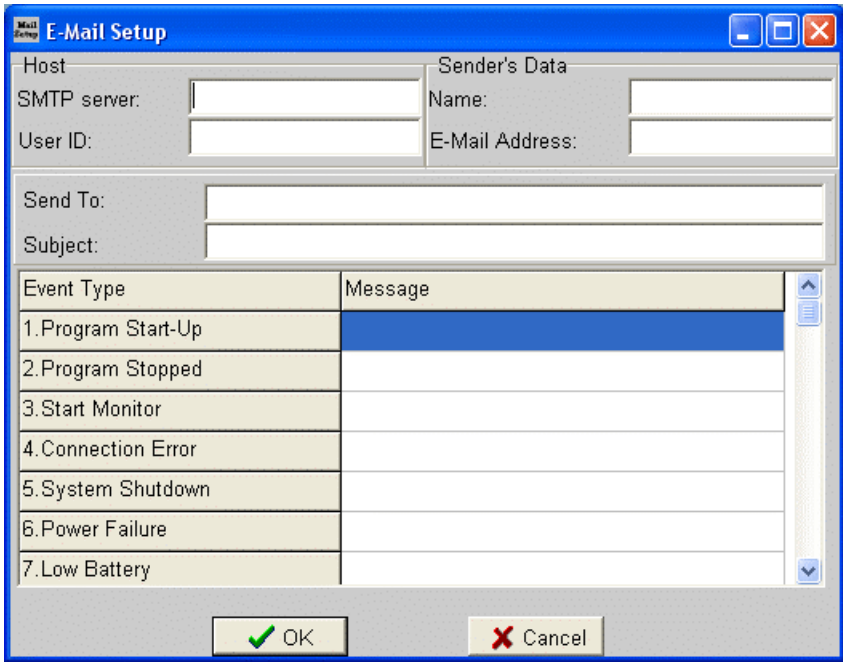
<,,,> Pause for 6 second. Each comma is equal to a 2 second pause

<#000*01#> User defined code to identify the UPS and the event.

D. UPS Function Setup (Appears only on UPS models that support these functions - Not supported by all UPS models)



E. E-Mail Setup



SMTP Server: Set up the mail server address and the user's ID. Please note that the software currently does not support SMTP authentication. To send messages to a mail server that requires authentication, use the message setup to configure an external command line mailer that supports SMTP authentication.

Sender's Data: Set up the sender's name and mailbox address.

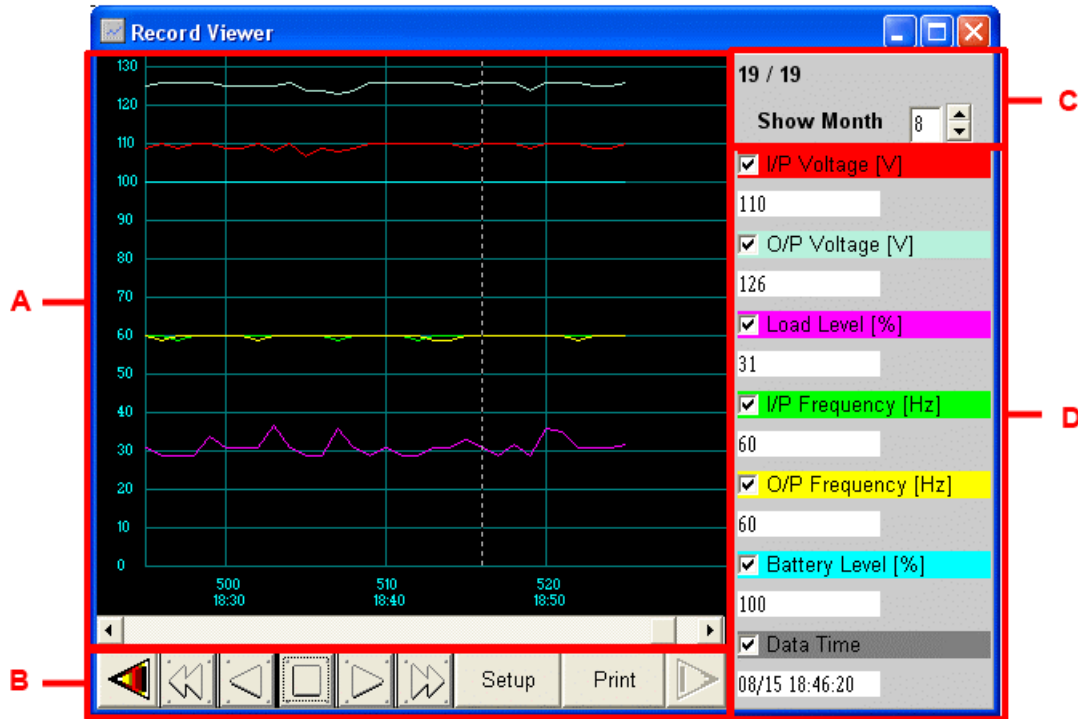
Send To: Set up the receiver's E-mail address. Separate multiple recipient addresses with a semicolon ";"








Subject: The subject of the E-mail message.

Event Type/Message: Configure messages to be sent for each UPS event.

1-3. View:

A. Record Viewer

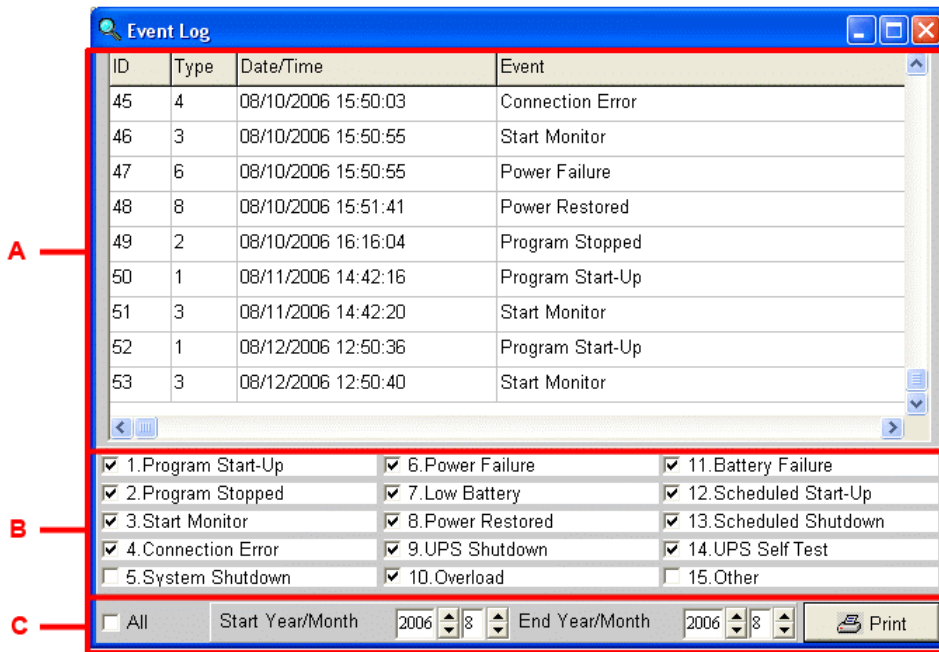


- A. **Data display:** Displays a graph of the selected parameters
- B. **Log File Playback**
 -  Go to beginning of current log file
 -  Playback the current log data in reverse order.
 -  Stop log playback
 -  Playback the current log data in forward order.
 -  Go to the end of the current log file
 -  Open the next earlier log file in the current month.
 -  Open the next later log file in the current month.
 - **Print:** Prints selected or entered data range. Supports printing to the default Windows printer or file.
 - **Setup:** Allows configuration of the recording period and graph display settings.

C. Month & Log File Numbers: The log data is stored in fixed size files that are organized by month. The number of recorded parameters and the recording interval will change the time period covered by each log file. Select the month with the Show Month spinner box. Above the month display it will show the current log file number and the highest log file number in the current month. For example, "18 / 19" indicates that the current data is the 18th file out of a total of 19 files that have been recorded during the selected month.





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- **D. Graph Parameters.** Controls which variables are displayed on the graph as well as the currently selected values.




B. Event Viewer:



- **A. Message column:** Displays the list of recorded events
- **B. Message selection:** Enables or disables recording of specific UPS events.
- **C. Show All Events During A Period:** Set start/end and select All to display all events within the specified range.

2. Tool Bar Icons

-  **2-1. System Configuration** ([See 1-1.A for settings](#))
-  **2-2. Self Test** - Runs a UPS Self-test. Any errors are recorded in the event log.
-  **2-3. Communication Port Setting** ([See 1-2.A for settings](#))
-  **2-4. Schedule Setting** ([See 1-2.B for settings](#))

-  2-5. Call Pager ([See 1-2.C for settings](#))
-  2-6. Record Viewer ([See 1-3.A for settings](#))
-  2-7. Events Viewer ([See 1-3.B for settings](#))

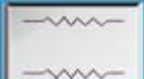
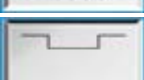



3. Meter Display

This section displays the current meter read out data from the UPS. Parameters recorded are:




- **I/P Voltage [V]:** Displays the input voltage that the UPS is receiving from the mains input.
- **O/P Voltage[V]:** Displays the output voltage that the UPS is providing to devices that are connected to the UPS
- **Load Level [%]:** Displays the actual load level of the UPS.
- **I/P Frequency [Hz]:** Displays the frequency of the AC power that the UPS is receiving from the wall input.
- **O/P Frequency [Hz]:** Displays the frequency of the AC power that the UPS is providing to devices that are connected to the UPS
- **Battery Level [%]:** Displays the current battery status.

4. UPS Monitoring

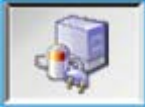
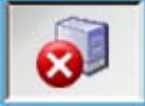




- 4-1. AVR Mode:

-  A. Normal
-  B. AVR
-  C. AVR-Boost
-  D. AVR-Buck
-  E. On-Line

- 4-2. Power Status:

-  A. Normal (green illuminated)
-  B. Power Failure (yellow illuminated)
-  C. Battery Low (red illuminated)

- 4-3. UPS Status:

-  A. Normal
-  B. UPS Fault
-  C. Battery Failure
-  D. Overload
-  E. UPS Self-Test
-  F. UPS Off

5. ON/OFF Schedule

Display the next time of switching the UPS ON and OFF via schedule setting ([See 1-2.B for settings](#)).