

# UPS Monitoring Software User Manual

## Emily2

*For*  
*Microsoft Windows 2000*  
*Microsoft Windows XP*  
*Microsoft Windows Server 2003*  
*Microsoft Windows VISTA*  
*Microsoft Windows Server 2008*  
*Microsoft Windows 7*

## Table of Contents

<b>1. Installation &amp; Settings</b> .....	2
1.1 Note .....	2
1.2 Installation Instructions.....	2
1.3 Instructions on Removing Emily2 Program.....	5
<b>2. Function Descriptions</b> .....	7
2.1 Real-Time Information Monitoring Display .....	7
2.2 Control .....	13
2.3 General Setting .....	13
2.4 SMS .....	17
2.5 E-Mail Settings.....	19
2.6 Data Log.....	21
2.7 Event log .....	23
2.8 Schedule.....	25
2.9 Oscillograph .....	27
2.10 About .....	28

# 1. Installation & Settings

## 1.1 Note

- Operating OS: Windows 2000 / XP / 2003 / Vista / 2008 / 7.  
Other Software Conditions:
  1. MDAC 2.8. (windows 2000 Only)  
<http://www.microsoft.com/downloads/details.aspx?familyid=6C050FE3-C795-4B7D-B037-185D0506396C&displaylang=en>
  2. For Windows Installer 3.0 and above.
  3. For Framework 2.0 and above.
- Peripherals: Use either a serial port Connector or USB connector.

## 1.2 Installation Instructions

1.2.1 Please login as an Administrator.

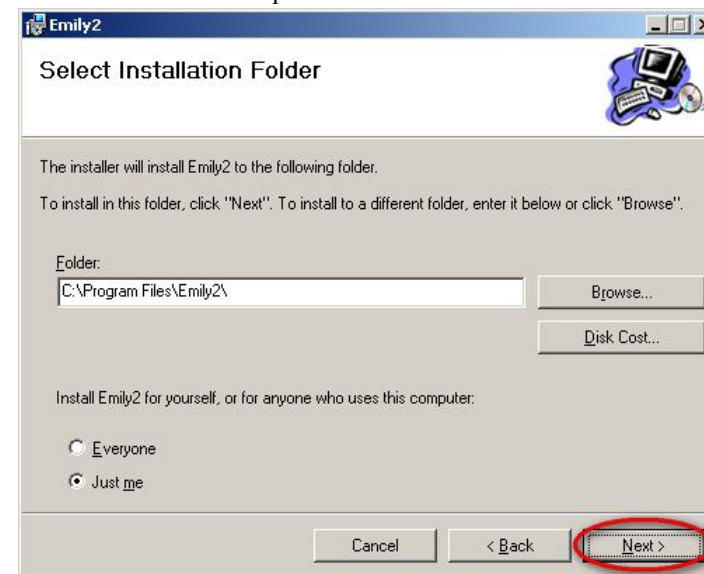
1.2.2 Double click to execute “Setup”.



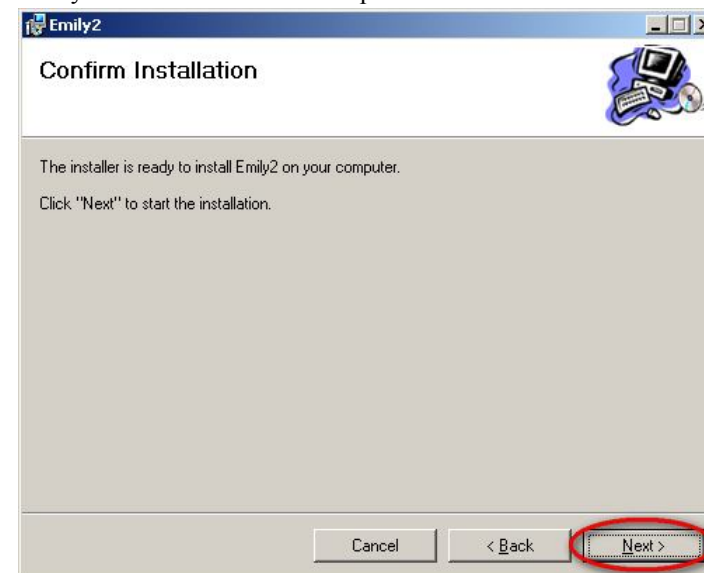
1.2.3 Click “Next” to next step.



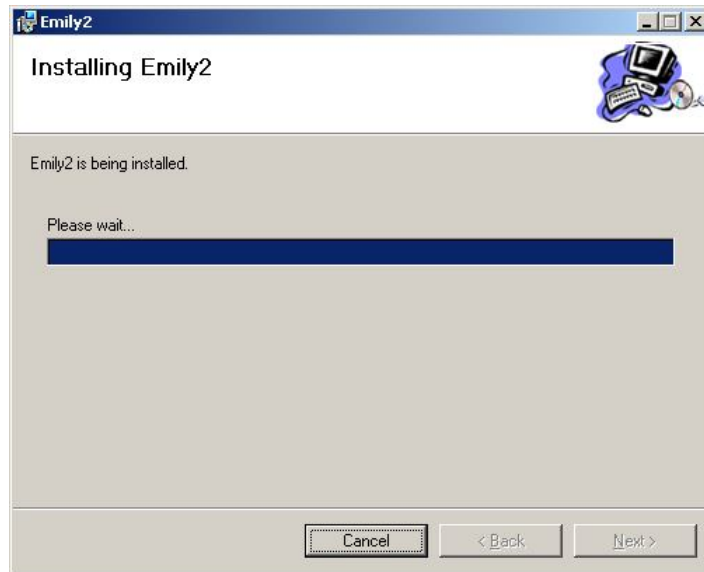
1.2.4 Enter “Select Installation Folder” to select the desire location for Emily program. (Default: C:\Program Files\Emily2.) Choose the user (yourself or anyone) who uses this software. Click “Next” to next step.



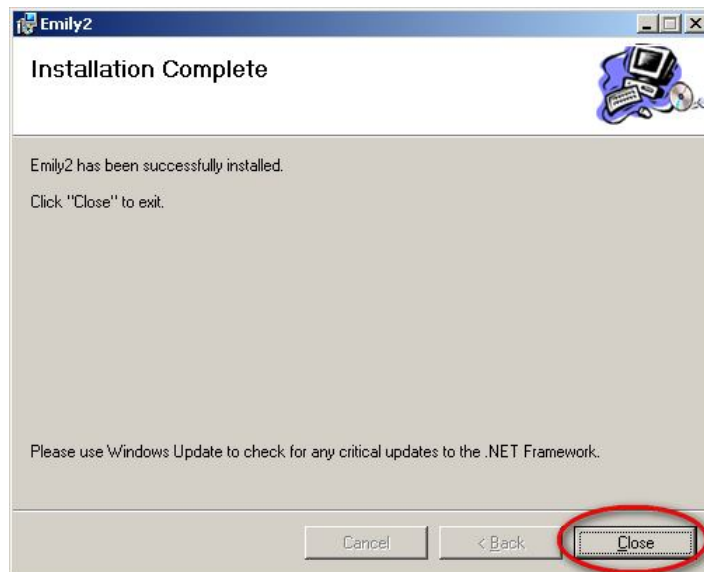
1.2.5 Enter “Confirm Installation” to ensure the completed installation of Emily2. Click “Next” to next step.



### 1.2.6 Installing Emily2 program.



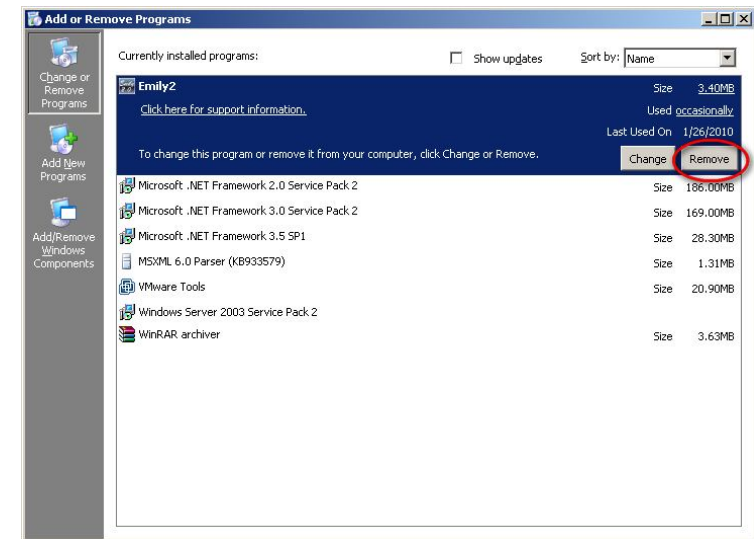
### 1.2.7 Click "Close" to end the installation.



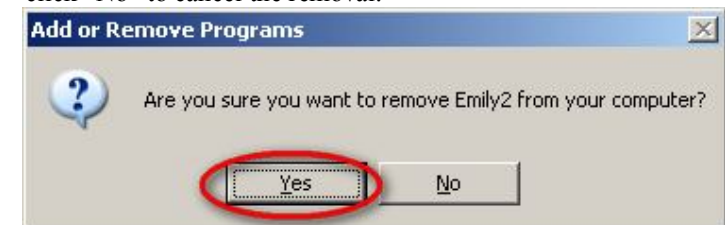
### 1.3 Instructions on Removing Emily2 Program

#### Remove Emily2

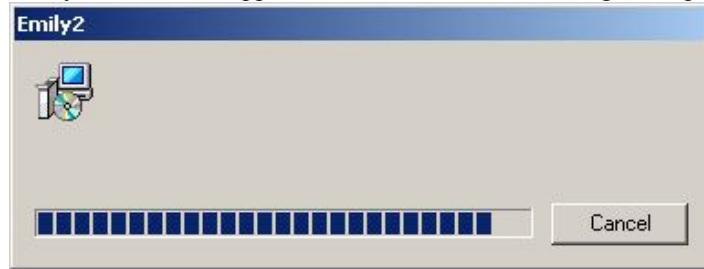
- Step1. Go to Windows Control Panel and select "Add or Remove Programs".  
Step2. Select "Emily2" and click "Remove".



- Step3. In the page shown below, click "Yes" to confirm removal of the Emily2 or click "No" to cancel the removal.



Step4. When the progress bar run to finish, It's complete the removal.  
Emily2 Icon will disappear in the “Add or Remove Programs” page.

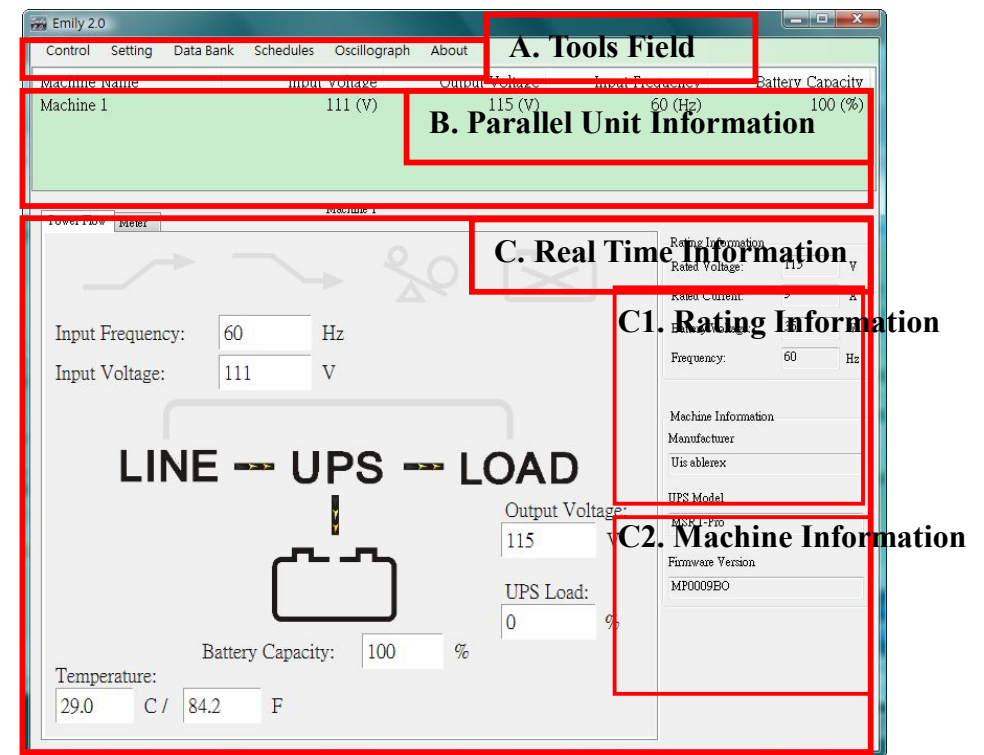


## 2. Function Descriptions

Emily2 program is user-friendly UPS monitoring software which reveals the status of the UPS via USB or RS232 for up to 4 parallel units. It provides easy to read real time metering of important UPS parameters such as input/output voltage, frequency, UPS temperature, loads & battery capacity. These UPS parameters & status information are recorded and presented in both graphically and numerically.

The “Schedule” function of Emily2 allows user to preset various UPS commands to perform repetition of tasks automatically. In event of Power outage or abnormality, Emily program is capable of automatically informing user via SMS & email instantly and closes application software. The following chapters will provides detailed descriptions of these superior features of Emily2 program.

### 2.1 Real-Time Information Monitoring Display



## A. Tools Field

Function	Descriptions	Remarks
Control	This function include: Self Test, UPS Shutdown. In this function, you can send command to unit in this time.	
Setting	There are 3 parts in this item: “General Setting”, “SMS Setting”, And “Email Setting”.  “General Setting”: setting of Communications, Multi language, Setting of Shutdown.  “SMS Setting”: SMS alert function set up.  “E-mail Setting”: E-mail alert function set up.	
Data Base	There are 2 parts in this item: “Event Log” And “Data Log”.  “Event Log”: Provides a list of records of events, command entries, alarms, etc.  “Data Log”: Stores the UPS operating parameters monitored & recorded by the Emily2.	
Schedules	Provides scheduling of to-do events and commands.	
Oscillograph	Graphical overall of the recorded UPS parameters data.	
About	Record the version number and proprietor name of the Emily2.	

## B. Parallel Unit Information

Provides input/output voltage, frequency, loads of UPS parameters for up to 4 parallel units at the same time.

## C. Real Time Information

When you select unit in Parallel Unit Information zone, the details of UPS parameters will show on this zone.

This zone includes: “Icon page”, “Value page”, “Rating Information”, and “Machine Information”.

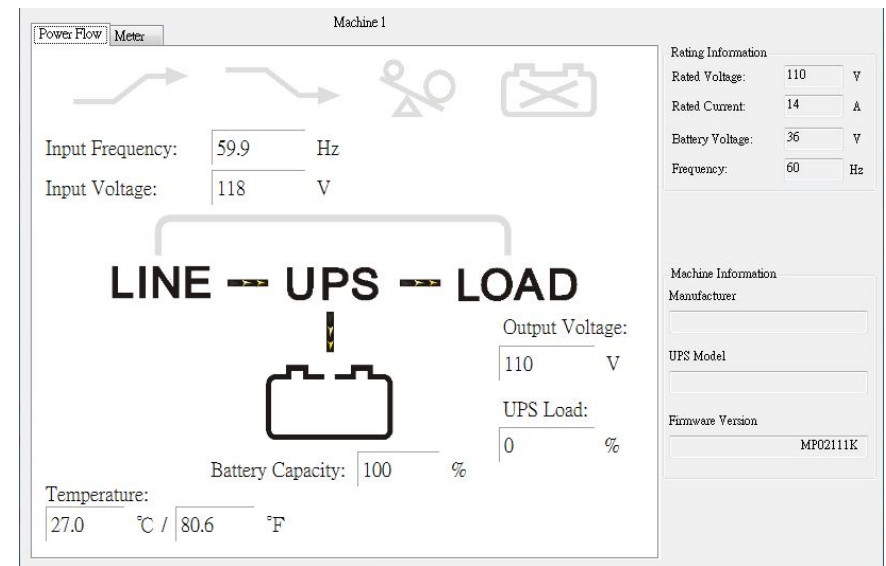
### C1. Rating Information

Provides rating information of the connected UPS such as Rating Voltage, Rating current, Battery Voltage, and Frequency.













### C2. Machine Information

Provides machine information of the connected UPS such as Manufacturer, UPS Model, and Firmware Version.

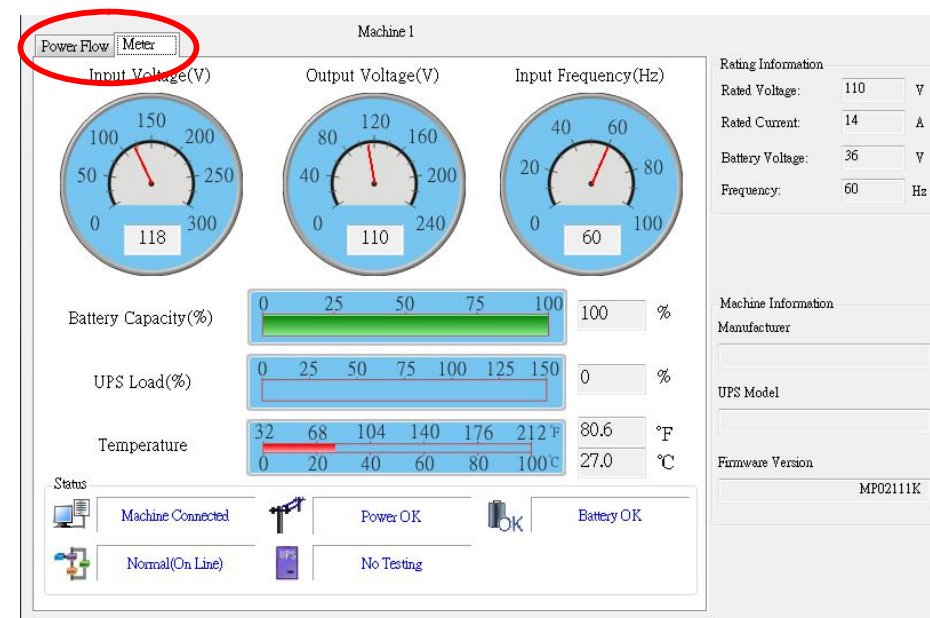
## Power Flow page :







※ Symbols Description


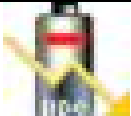


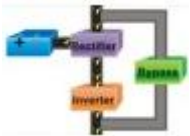





State	Symbols	Description	Remarks
Boost		Non-Boost	
		Boost	
Buck		Non-Buck	
		Buck	
Over Load		Non-Over Load	
		Over Load	
Battery State		Non-Battery Disconnect	
		Battery Disconnect	
		Battery OK	
		Battery Low	
By Pass	<div>LINE    UPS    LOAD</div> 	Non-By Pass	
	<div>LINE    UPS    LOAD</div> 	By Pass	

Meter Page:

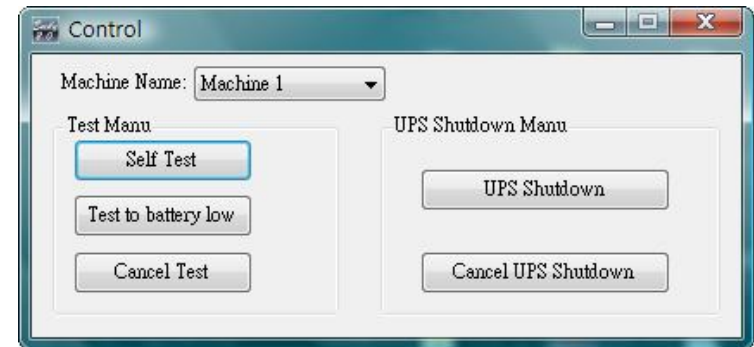


※ Symbols Description

State	Symbols	Description	Remarks
Connection State		UPS connected. This symbol represent when the UPS is successfully connect to the Computer.	
		UPS disconnected. The connection between the UPS & the Computer is disrupted.	
Power State		Power Supply OK.	
		Power Failure. The utility supply is absent or abnormal conditions.	

<b>UPS Battery State</b>		Battery Level OK.	
		Battery Low. The UPS battery is near end of discharge or is at low power level. (2 Icon swap)	
			
		UPS Battery Failed.	
<b>UPS Models</b>		ON LINE Model.	
		OFF LINE Model.	
<b>Test State</b>		UPS No Testing.	
		UPS Testing.	
<b>By Pass</b>		By Pass mode.	
			

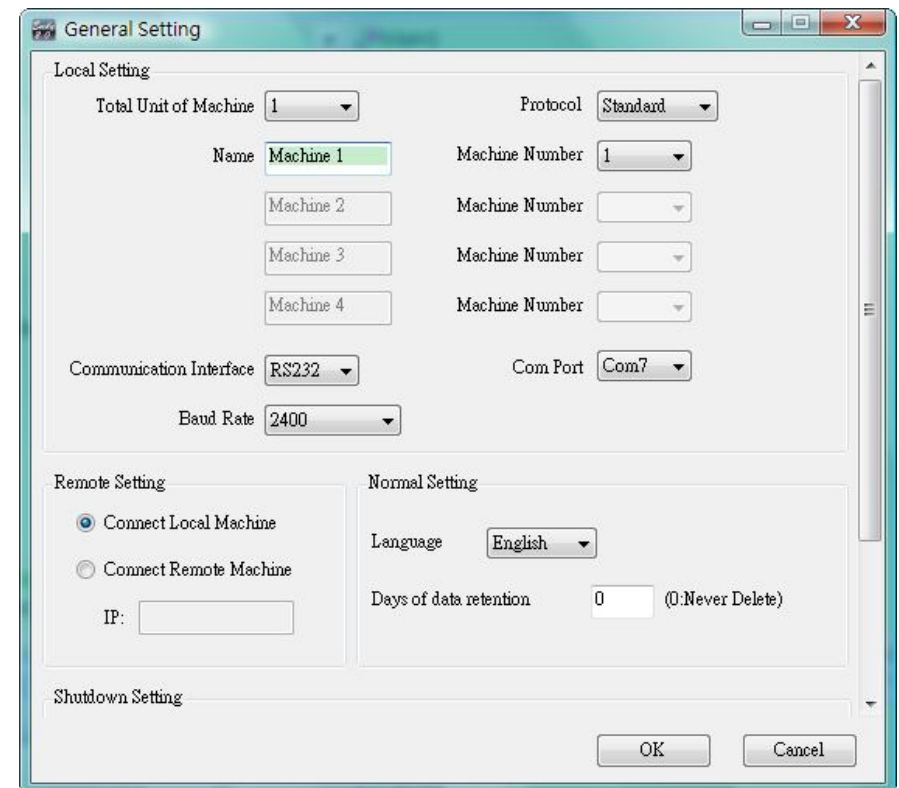
## 2.2 Control



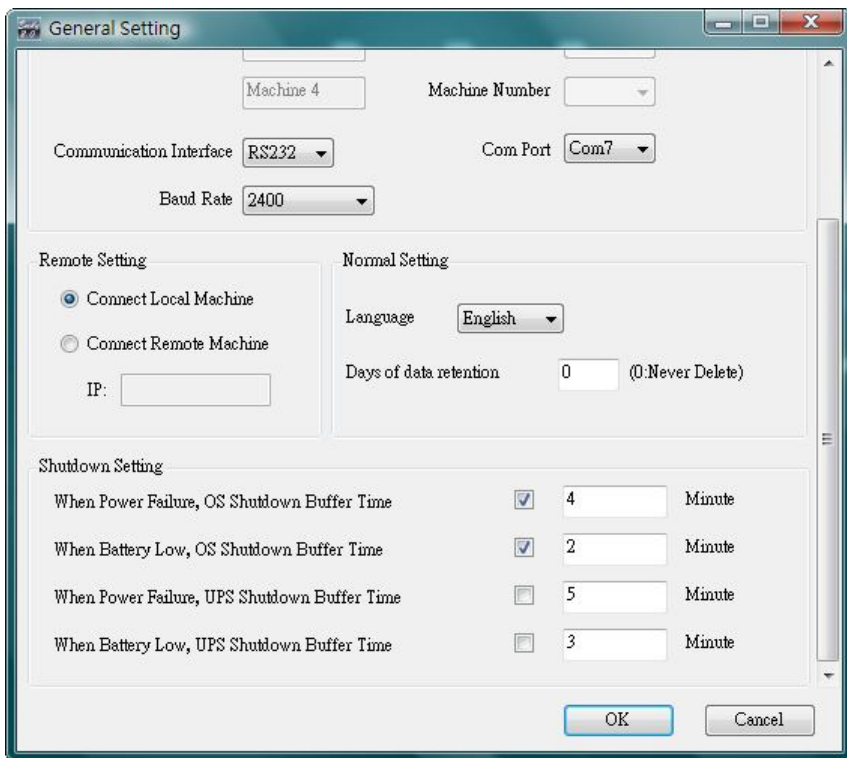
Provides command to UPS for self-test, shut-down, battery discharge test, stop test, etc.

## 2.3 General Setting

Allows user to select & set the connecting Com port or Remote, UPS or OS shutdown, etc.







#### 2.3.1. Setting amount of unit, and choose the Protocol.

Total Unit of Machine  Protocol

#### 2.3.2. Setting number of unit, and unit name which show on the Real Time Information Monitoring Display form.

Name	Machine 1	Machine Number	1
	Machine 2	Machine Number	2
	Machine 3	Machine Number	3
	Machine 4	Machine Number	4

#### 2.3.3. Setting Interface and Com Port of connection.

Communication Interface  Com Port   
Baud Rate

#### 2.3.4. Language Selections

Language

The Emily2 program provides various major languages for user selection. The initial start up language will be English.

#### 2.3.5. Data retention setting

Days of data retention  (0:Never Delete)

The period of time user intends to save the data in database. If the value is "0", means data in database never delete.

#### 2.3.6. Remote Setting

Remote Setting

☒ Connect Local Machine  
☐ Connect Remote Machine  
IP:

If you want to remote other computer, please choose "Connect Remote Machine", and insert IP. If choose "Connect Remote Machine", you can't send command, scheduling and Shutdown the UPS, but can Shutdown the computer.

#### 2.3.7. When Power Failure OS Shutdown Buffer Time

When Power Failure, OS Shutdown Buffer Time ☒ 5 Minute

Select a sufficient time for the computer OS to automatically shutdown when a power outage occurred. The selectable time is from 1 min. to 99 min.



### 2.3.8. When Battery low OS Shutdown Buffer Time

When Battery Low, OS Shutdown Buffer Time ☒ 4 Minute

Select a desire time to automatically shutdown the computer OS before the UPS battery power is depleted. The selectable time is from 1 min. to 99 min.

### 2.3.9. When Power Failure UPS Shutdown Buffer Time

When Power Failure, UPS Shutdown Buffer Time ☒ 3 Minute

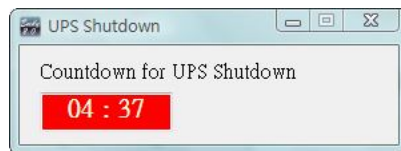
Select a desire time to automatically shutdown the UPS after a power outage occurred. A longer shutdown buffer time for OS then the UPS one is highly recommended. The selectable time is from 1 min. to 99 min.

### 2.3.10. When Battery low UPS Shutdown Buffer Time

When Battery Low, UPS Shutdown Buffer Time ☒ 2 Minute

Select a desire time to automatically shutdown the UPS before the UPS battery power is depleted. A longer shutdown buffer time for OS then the UPS one is highly recommended. The selectable time is from 1 min. to 99min.

NOTE: Before UPS or OS shutdown , Emily2 will show countdown window.



## 2.4 SMS

An alert message of recorded event will be sent to a predetermined mobile phone number via a subscribed short message service provider.

A screenshot of the "SMS Setting" dialog box. It has a red border. At the top, it shows "SMS Server: http://www.every8d.com/", "ID: ablerex", "API ID:" (empty), "PassWord: \*\*\*\*\*", and "Phone Number: xxxxxxxxxxxxxxxxxxxxxxxx". A red box labeled 'A' highlights the "Send Test" button. Below this is a section titled "Send Setting" with a red box labeled 'C' around it. It contains a list of events with checkboxes and corresponding SMS messages: "UPS Connected" (SMS message UPS connect), "UPS Disconnected" (SMS message UPS disconnect), "Shutdown OS" (SMS message System shutdown), "Power Fail" (SMS message Power failure), "Battery Low" (SMS message Battery low), "Power Restored" (SMS message Power restored), "UPS Shutdown" (SMS message UPS shutdown), "Over Load" (SMS message Over load), "UPS Failed" (SMS message Battery weak), and "UPS Self Testing" (SMS message UPS test). At the bottom right, there are "OK" and "Cancel" buttons, with a red box labeled 'D' around them.

This SMS function is only available through third-party Short Message Service Providers. To use this function you need to subscribe an account on [every8d] or [clickatell]. These are currently the only 2 third-party SMS providers supported by Emily2 program. For more information on subscriptions and charges, please go to their respective website as follow:

- 1) For [Every8d] : Go to <http://www.every8d.com/>.  
Note: Please subscribe as "Corporate" account in order to use Emily2 program SMS function.
- 2) For [Clickatell] : Go to <http://www.clickatell.com/>.  
Note: Payment has to be made to obtain an "api\_id" before use.

A. Send Test :

Click to send a test message to confirm the settings.

B. Account Settings :

Insert the SMS provided name, ID, passwords, “api-id” (for Clickatell subscriber only) and mobile phone number (international dialing format, include “+” or “00” and country code).

Note: If you want to send message to more than 1 mobile phone number, must use “,” to separate mobile phone numbers.

C. Event & Message Selections :

Click to select the desire Events to be broadcasted and the respective message contents (You may change and retype the Message contents to meet your requirement in English).

D. Save Setting :

Click “OK” to save & apply settings

Note: Internet Firewall may not allow this SMS function. If you have installed Firewall please allow this function.

## 2.5 E-Mail Settings

The screenshot shows the 'Email Setting' dialog box. It has a title bar with standard window controls. The main area is divided into two sections. The top section contains input fields for 'User Name' (XXXX), 'User Email Address' (XXXX@XXX.XXX), 'Password' (\*\*\*\*\*), 'SMTP Server' (XXXX.XXXX.XXXX), 'SMTP Server Port' (XXX), 'Receiver Name' (XXXXXX), 'Mail To' (XXX@XXXX.XXX.XX.XXXX@XXX.XXX), and 'Subject' (XXXX). A red box labeled 'A' highlights the 'Email Test' button. The bottom section is titled 'Send Setting' and contains a list of events with checkboxes and corresponding message templates. A red box labeled 'C' highlights this section. At the bottom right, there are 'OK' and 'Cancel' buttons. A red box labeled 'D' highlights the 'OK' button.

Event	Mail message
<input type="checkbox"/> UPS Connected	Mail message UPS connect
<input type="checkbox"/> UPS Disconnected	Mail message UPS disconnect
<input type="checkbox"/> Shutdown OS	Mail message System shutdown
<input type="checkbox"/> Power Fail	Mail message Power failure
<input type="checkbox"/> Battery Low	Mail message Battery low
<input type="checkbox"/> Power Restored	Mail message Power restored
<input type="checkbox"/> UPS Shutdown	Mail message UPS shutdown
<input type="checkbox"/> Over Load	Mail message Over load
<input type="checkbox"/> UPS Failed	Mail message Battery weak
<input type="checkbox"/> UPS Self Testing	Mail message UPS test

A. Sent Test :

Click to send a test message to confirm the settings are correct.

B. Account Settings :

Insert the User Name (Sender, e.g. Emily2), User Email Address (select a sender email address specifically for this function), Password (the pass word of your email server), SMTP Server (insert SMTP server or IP address), SMTP Server port (port of SMTP Server), Receiver Name (select a predetermined email address the event messages will be sent to), Mail To (Mail address of receiver), and Subject (select a subject name to acknowledge the receiver).

Note: If you want to send email to more than 1 email address, must use “,” to separate email addresses.

### C. Send Setting :

Click to select the desire Events to be broadcasted and the respective message contents (You may change and retype the Message contents to meet your requirement in English).

### D. Save Setting :

Click “OK” to save & apply settings.

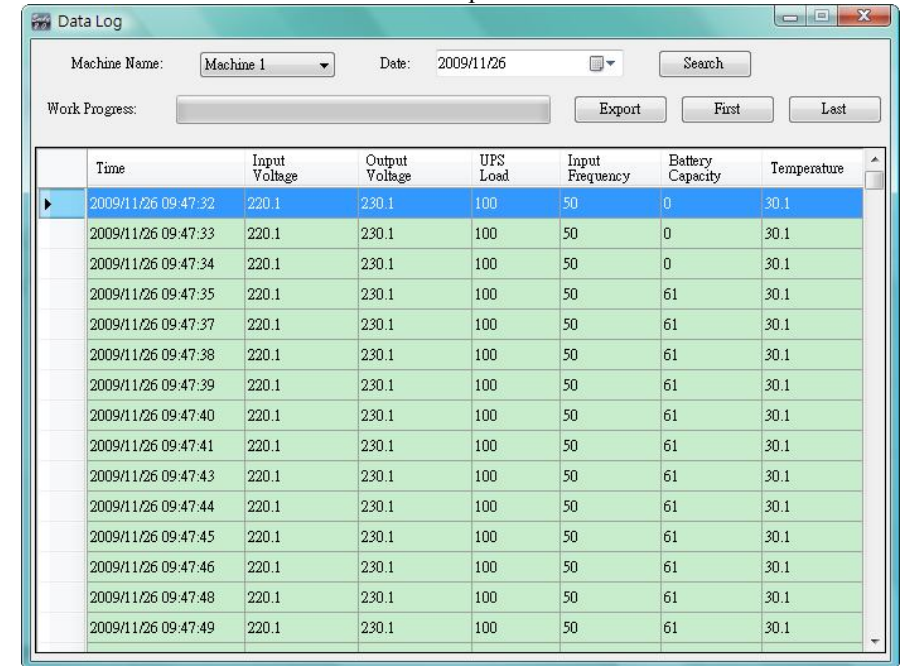
Note: Internet Firewall may not allow this E-Mailing function. If you have installed Firewall please allow this function.

## 2.6 Data Log

The ‘Data Bank’ stores all UPS operating parameters monitored & recorded by the Emily2 program.

It facilitates the recorded data (include Input Voltage, Output Voltage, Input Frequency, Battery Capacity, Temperature, Load) for a more effective study of the desire information.

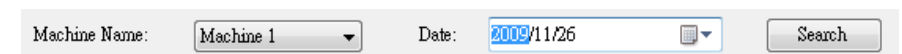
The information in the Data Base can be exported to Excel file.



The screenshot shows the 'Data Log' window with a table of recorded data. The table has columns for Time, Input Voltage, Output Voltage, UPS Load, Input Frequency, Battery Capacity, and Temperature. The data is for Machine 1 on 2009/11/26, starting from 09:47:32. The first row is highlighted in blue, and the subsequent rows are green.

	Time	Input Voltage	Output Voltage	UPS Load	Input Frequency	Battery Capacity	Temperature
▶	2009/11/26 09:47:32	220.1	230.1	100	50	0	30.1
	2009/11/26 09:47:33	220.1	230.1	100	50	0	30.1
	2009/11/26 09:47:34	220.1	230.1	100	50	0	30.1
	2009/11/26 09:47:35	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:37	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:38	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:39	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:40	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:41	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:43	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:44	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:45	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:46	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:48	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:49	220.1	230.1	100	50	61	30.1

### 2.6.1. Setting Machine Name and date of data



The screenshot shows the 'Machine Name' and 'Date' selection interface. The 'Machine Name' is set to 'Machine 1' and the 'Date' is set to '2009/11/26'. A 'Search' button is visible.

Choose the “Machine Name” and “Date”, click “Search” have the further information.

## 2.6.2. Tools

Work Progress: <span>Export</span> <span>First</span> <span>Last</span>							
	Time	Input Voltage	Output Voltage	UPS Load	Input Frequency	Battery Capacity	Temperature
▶	2009/11/26 09:47:32	220.1	230.1	100	50	0	30.1
	2009/11/26 09:47:33	220.1	230.1	100	50	0	30.1
	2009/11/26 09:47:34	220.1	230.1	100	50	0	30.1
	2009/11/26 09:47:35	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:37	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:38	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:39	220.1	230.1	100	50	61	30.1
	2009/11/26 09:47:40	220.1	230.1	100	50	61	30.1

Export : Click to export the current data into “xls” format.

First : Click to go to the first recorded entry.

Last : Click to go to the last recorded entry.

## 2.7 Event log

The “Event Log” provides a list of records of all the events & tasks to be performed by the program and those that had occurred on each day of the particular month. It provides a summary of the Utilities conditions and UPS testing results.

Machine Name: All
Date: 2009/11
Search

Filter

☐ UPS Connected
☐ UPS Failed
☐ Power Restored

☐ UPS Disconnected
☐ Self Test
☐ Shutdown OS

☐ Power Fail
☐ UPS Shutdown

☐ Battery Low
☐ Over Load

Select All
Clear
Filter

Work Progress Export First Last

	Data Time	Machine Name	Event
▶	2009/11/05 11:02:50	Machine 1	UPS Disconnected
	2009/11/05 11:12:51	Machine 1	UPS Disconnected
	2009/11/05 11:13:39	Machine 1	UPS Disconnected
	2009/11/05 16:19:26	Machine 1	UPS Disconnected
	2009/11/05 16:40:48	Machine 1	UPS Disconnected
	2009/11/05 17:11:49	Machine 1	UPS Disconnected
	2009/11/05 17:11:58	Machine 1	UPS Disconnected
	2009/11/06 09:29:35	Machine 1	UPS Disconnected
	2009/11/06 12:01:06	Machine 1	UPS Disconnected
	2009/11/06 13:32:04	Machine 1	UPS Disconnected
	2009/11/06 13:32:46	Machine 1	UPS Disconnected
	2009/11/06 13:32:48	Machine 1	UPS Disconnected

### 2.7.1. Setting Machine Name and date of data

Machine Name: All
Date: 2009/11
Search

Choose the “Machine Name” and “Date”, click “Search” to have the further information.

### 2.7.2. Filter

Filter

<input type="checkbox"/> UPS Connect	<input type="checkbox"/> UPS Failed	<input type="checkbox"/> Power Restored
<input type="checkbox"/> UPS Disconnect	<input type="checkbox"/> Self Test	<input type="checkbox"/> Shutdown OS
<input type="checkbox"/> Power Fail	<input type="checkbox"/> UPS Shutdown	
<input type="checkbox"/> Battery Low	<input type="checkbox"/> Over Load	

Select All Clear Filter

Please select or unselect the desire parameters by clicking on the respective parameter field box. Click “Filter” to have further information.

Select All : Field box of all events will be “☒”

Clear : Field box of all events will be “☐”

Filter : Click “Filter” the data will show respectively.

### 2.7.3. Tools

Work Progress

Export First Last

	Data Time	Machine Name	Event
▶	2009/11/05 11:02:50	Machine 1	UPS Disconnect
	2009/11/05 11:12:51	Machine 1	UPS Disconnect
	2009/11/05 11:13:39	Machine 1	UPS Disconnect
	2009/11/05 16:19:26	Machine 1	UPS Disconnect
	2009/11/05 16:40:48	Machine 1	UPS Disconnect

Export : Click to export the current data into “xls” format.

First : Click to go to the first recorded entry.

Last : Click to go to the last recorded entry.

## 2.8 Schedule

“Schedule” allows user to create a desire routine to notify UPS to perform specific or repeatable tasks automatically at predetermined dates & times.

Please refer to the following instructions to create an entry :

Schedule

Machine Name: Machine 1 Date: 2009/12/25 星期五

Data Time: 00:00 Repeat: Today

Control Item

☐ Test for 10 seconds. ☐ Shutdown UPS in minutes, Start time Today 00:00

☐ Test until battery low.

☐ Shutdown UPS in minutes.

Add Edit Delete

Number	Machine	Repeat	Control Item	Date	Week	Time
1	M1	NO	Test for 10 seconds.	2009/11/27	Friday	00:00
2	M1	Everyday	Test for 10 seconds.	2009/11/27	Friday	00:00
3	M1	Week	Test for 10 seconds.	2009/11/28	Saturday	00:00
4	M1	Month	Test for 10 seconds.	2009/11/30	Monday	00:00
5	M1	Everyday	Shutdown UPS in 2 minutes, St...	2009/12/4	Friday	12:00
7	M1	NO	Shutdown UPS in 2 minutes.	2009/12/10	Thursday	00:00
8	M1	NO	Shutdown UPS in 02 minutes, ...	2009/12/10	Thursday	00:00
9	M1	NO	Shutdown UPS in 02 minutes.	2009/12/10	Thursday	00:00

#### 2.8.1. Setting Machine and time which you want to schedule.

Schedule

Machine Name: Machine 1 Date: 2010/02/02 星期二

Time: 00:00 Repeat: Today

Machine Name : Choose the machine.

Date : Choose the Date.

Time : Time Setting.

Repeat : Set frequency.

### 2.8.2. Control Item

Control Item

A ☐ Test for 10 seconds.

B ☐ Test until battery low.

C ☐ Shutdown UPS in  minutes.

D ☐ Shutdown UPS in  minutes,  
Start time  Today  00:00

A : Self test for 10 seconds.

B : Self test until battery low.

C : Insert minutes to shutdown the UPS.

D : Insert minutes to shutdown the UPS. The UPS will turn on automatically at the predetermined time.

### 2.8.3. Create, Delete, and Edit the data of Schedule

	Number	Machine	Repeat	Control Item	Date	Week	Time
▶	1	M1	NO	Test for 10 seconds.	2009/11/27	Friday	00:00
	2	M1	Everyday	Test for 10 seconds.	2009/11/27	Friday	00:00
	3	M1	Week	Test for 10 seconds.	2009/11/28	Saturday	00:00
	4	M1	Month	Test for 10 seconds.	2009/11/30	Monday	00:00

Create : Click “Add” to create a new task.

Edit : Step1. Choose the task from the schedule list, the highlighted blue bar is the chosen task.

Step2. Set Machine and schedule items.

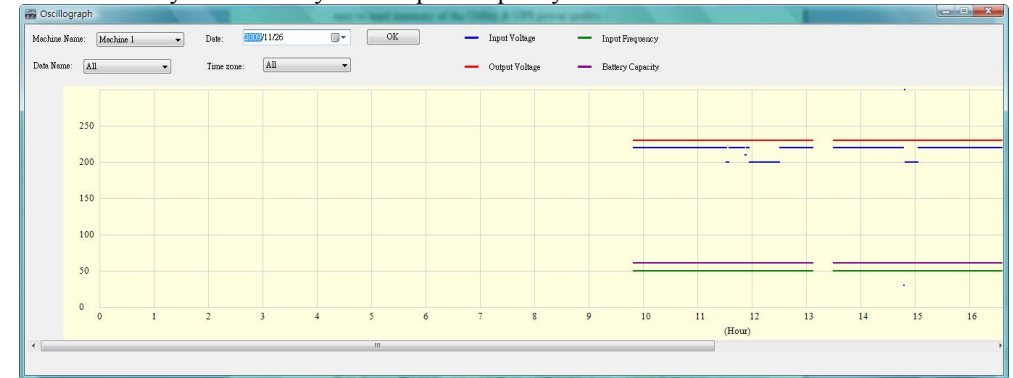
Step3. Click “Edit” to modify your selection.

Delete : Choose the task from the schedule list, the highlighted blue bar is the chosen task.

Click “Delete” to delete the task you choose.

## 2.9 Oscillograph

The “Oscillograph” provides a summarized report of the recorded UPS operating data. The recorded data are represented in line curves to provide an easy to read summary of the Utility & UPS power quality.



### 2.9.1. Tools

Machine Name:  Machine 1 Date:  2009/11/26 OK

Data Name:  All Time zone:  All

Machine Name : Choose the machine which you want to show.

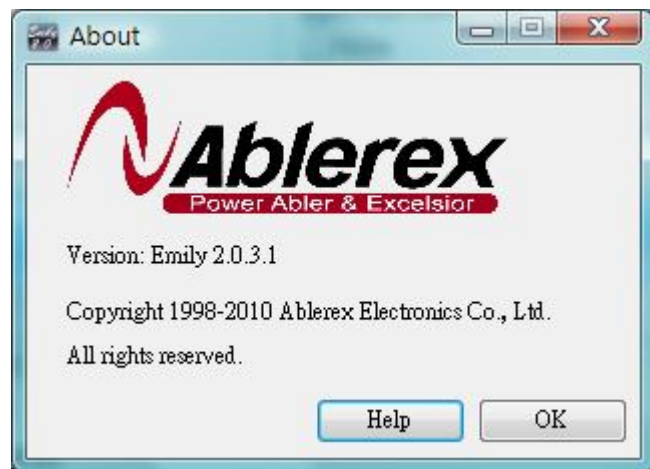
Date : Set the date of data you want to show.

Data Name : 5 items can be chosen: “ALL”, “Input Voltage”, “Output Voltage”, “Input Frequency”, “Battery Capacity”.

Time zone : Choose the time interval.



## 2.10 About



Click to confirm version of the Emily2 software.  
Click "Help" to show this user manual.