Emily2 User Manual

For

Microsoft Windows XP Microsoft Windows Vista Microsoft Windows 7 Microsoft Windows 8 Microsoft Windows 10 Microsoft Windows Server 2003 Microsoft Windows Server 2008 Microsoft Windows Server 2012 Microsoft Windows Server 2016 Microsoft Windows Server 2019

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1. **Installation** Instructions

1.1 System requirements

- Operating OS: Windows XP / Vista / 7 / 8 / 10, Windows Server 2003/2008/2012/2016/2019
- ▶ Peripherals: RS-232 or USB

1.2 Install Emily2

Step1. Please login as an Administrator.

Step2. Double click "Setup.msi" to Install the Emily2.



Step3. Click "Next" to the next step.



Step4. Click "Browse", if user wants to change the installing directory. Otherwise, click "Next" to next step.



Step5. Click "Next" to next step.



Step6. Installing Emily2 program.



Step7. Click "Close" to finish the installation.



1.3 Uninstall Emily2

Remove Emily2

Step1. Go to Settings from your computer and select "Apps & features". Step2. Select "Emily2" and click "Uninstall" as the following picture.

| < Settings | | - 0 |
|-------------------|--|---|
| Ĝ Home | Apps & features | |
| Find a setting | Choose where to get apps | Related settings Programs and Features |
| Apps | Installing apps only from Windows Store helps protect your device. | |
| E Anne & features | Anywhere \checkmark | Have a question? |
| - Apps directores | | Changing startup apps |
| I⇒ Default apps | Apps & features | Installing web apps from Microsoft |
| | | Uninstalling apps |
| 印1 Offline maps | Optional features | Updating apps |
| Apps for websites | App execution aliases | _ |
| | Search, sort, and filter by drive. If you would like to uninstall or move an | Get help |
| □ Video playback | app, select it from the list. | Give feedback |
| | Emily ρ | |
| | Sort by: Name 🗸 🛛 Filter by: All drives 🗸 | |
| | Emily2 103 MB 1/14/2021 | |
| | 3.2.7 | |
| | Modify Uninstall | |

Step3. Click "Uninstall" to confirm removing the Emily2.

Step4. Emily2 icon will disappear in the "Apps & feature" page after uninstall process uninstall.

| This app and its related info v uninstalled. | vill be |
|---|-----------|
| | Uninstall |
| Emily2 | |
| Please wait while Windows configures Emily2 | |
| | Cancel |

2. Function Descriptions

| WOLLED . | Input Voltage | Output Voltage | Input Frequency | Battery Canacity |
|--------------------|---------------|----------------|------------------|------------------|
| | 121.6 (V) | 121.6 (V) | 59.8 (Hz) | 100 (%) |
| Α | | | | |
| er Flore Mater | U | PS 1 | | |
| THE R. | | | Rating Info | mation |
| | | בז פל | Rated Volts | ge: V |
| | | | Pated Cum | |
| Input Frequency: 5 | 9.8 Hz | | 3 | |
| Input Voltage: 1 | 21.6 V | | Battery Vol | lage: |
| | | | 12 | v |
| Α | | | Frequency: | |
| LINE | UPS | LOAI |) | Hz |
| | | Output Vol | tage: UPS inform | ation |
| | | 121.6 | V Menufecture | I NUMB DO NUMB |
| | ר = - ר | | | NATPOWER |
| | | UPS Load: | UPS Model | THADOLINN |
| | | | | LI MULISTRIN |

A. UPS real-time information and status: Detail in section 2.1

- B. UPS rating and information display area: Detail in section 2.2
- C. Function selection area: Detail in section 2.3

2.1 Real-Time Information

Please refer below section for Flow Format Page & Meter Format Page.

- Input Voltage of UPS
- Output Voltage of UPS
- Input Frequency of UPS
- Load level of UPS
- UPS status
- Power Flow Format Page & Meter Format Page

Power Flow page:

| Power Flow Meter | | Ν | Machine 1 | | | | |
|--------------------|------------|-------------|-----------------|-------------|--------|-------------------------------------|---------------------------------|
| nou | | | ~ | - | | Rating Information | |
| | | | 20 | P | h | Rated Voltage: | |
| _ | | | | | | 120 | ۷ |
| Input Frequency: | 50.8 | Hz | | | | Rated Current: | |
| input i requeitey. | 57.0 | 112 | | | | 3 | A |
| Input Voltage: | 121.6 | V | | | | Battery Voltage: | |
| | | | | _ | | 12 | V |
| | | | | | | Frequency: | |
| | I | IDC | | | | 60 | Hz |
| | | | _ | Output Volt | age: | Machine Information Manufacturer | |
| | | | | | V | | |
| | <u> </u> | | 1 | 121.0 | v | NX | T POWER |
| | ſ | | ן | UPS Load: | v | UPS Model | T POWER |
| | | |] | UPS Load: | v | UPS Model | T POWER TU400GNN |
| Temperature: | Battery Ca | apacity: 10 |) 0 % | UPS Load: | v % | UPS Model Firmware Version | T POWER TU400GNN |
| Temperature: | Battery Ca | apacity: 10 |) 0 % | UPS Load: | % | UPS Model Firmware Version | T POWER TU400GNN PX002155 |

% Symbols Description

| Item | Symbols | Description |
|------|----------|------------------|
| 1 | | Boost |
| 2 | 1 | Buck |
| 3 | % | UPS Overloading |
| 4 | 図 | Battery Abnormal |
| _ | <u>ش</u> | Battery Normal |
| 5 | Low | Battery Low |

| 6 | | Power flow figure |
|---|--|-------------------|
|---|--|-------------------|

Meter Page:



% Symbols Description

| Item | Symbols | Description |
|------|---------|---|
| 1 | | UPS is connected successfully to the computer |
| 1 | | The connection between the UPS & the Computer is disrupted |
| 2 | T | Utility Power Normal |
| _ | | The utility power is absent or abnormal conditions |
| 2 | ľок | Battery Level Normal |
| 3 | | Battery Low. The UPS battery is near to end of discharge or is |

| | ×. | at low power level (2 Icon swap) |
|---|----------|-------------------------------------|
| | | UPS Battery Abnormal |
| | | ON Line Model |
| 4 | 5 | OFF Line Model |
| 5 | 2 | Under self test |
| 6 | BP BP | Bypass mode(2 Icon swap) |

2.2 UPS Rating and Information

Rating Information

Provides rating of UPS such as:

- Rating Voltage
- Rating Current
- Battery Voltage
- Frequency

Machine Information

Provides information of UPS such as:

- Manufacturer
- UPS Model
- Firmware Version

| Power Flow Meter | |
|--|---|
| _~ ~ <u>%</u> | Rating Information Rated Voltage: 120 V |
| Input Frequency: 59.8 Hz Input Voltage: 121.6 V | Rated Current: 3 A Battery Voltage: A |
| | 12 V Frequency: 50 Hz |
| LINE UPS | Output Voltage: Machine Information |
| ר'ייז | 121.6 V UPS Load: UPS Model |
| Battery Capacity: 100 | 2 % TU4003NN % Firmware Version |
| 30.0 °C 86.0 °F | FX002155 |

2.3 Function selection

This chapter will introduce how to use or configure for those specific function "Control", "General Setting", "E-mail", "Data Log", "Event Log", "Scheduling", "Oscillograph" and "About".

2.3.1 Control

Command UPS directly for the following test.

- UPS Self-Test
- UPS Self-Test Test to battery low
- Cancel UPS Self-Test

| Test Menu | 0.10 7. | | _ |
|-----------|----------------|--------|---|
| | Pell 16 | ส | |
| | Test to batter | ry low | |
| | Cancel T | est | |
| | | | |

2.3.2 General Settings

Allows user to select and set the connecting RS-232/USB or Remote, set to Data Log function and set to turn of UPS or OS condition etc.

2.3.2.1 Choose the Protocol.

Standard: for RS-232 or USB



Please refer to 2.3.2.5 for detail if choose the Remote.

2.3.2.2 Setting Communication Interface

| Communication Interface | USB | ~ |
|----------------------------|------|--------------|
| Baud Rate | 2400 | \checkmark |
| Com Port | | ~ |

- Communication Interface : USB / RS232
- Baud Rate : 2400bps/4800bps/9600bps
- Con Port :COM1~COMX

2.3.2.3 Log Record setting

• Enable the Data Log Record function

| Data Log Record: 🛛 🔍 | per 10 secs | - |
|----------------------|-------------|---|
| Maximum Record: | Unlimited | • |

- Set Record timer interval
- Set data storage count of record list

2.3.2.4 Data retention setting

The time of data stored in a database can set by the user. If the value is "0", it means database will never be deleted.

Days of data retention 0 (0:Never Delete)

2.3.2.5 Remote Setting

The "Connect Remote Machine" is for connecting the Emily2, which installed on another computer, and the IP address should be the master PC, which connected UPS.

| Remote | Setting |
|--------|----------------------|
| ⊖ Co: | nnect Local Machine |
| • Co: | nnect Remote Machine |
| IP: | 192.168.7.150 |

Note:

With "Connect Remote Machine" you cannot send commands like Scheduling or UPS turn off.

2.3.2.6 Unfinished APP log

If auto saving function is set, the Emily2 will display the closed record after restart.

| Display Closed Files Record on Emily2 Restart | Unfinished Log | |
|---|----------------|--|

2.3.2.7 Optional command

Set the file to be executed before the system shutdown. The selectable time is from 0 min. to 2880 min.

| Browse | 1 | Minute |
|--------|--|---------|
| | OS Shutdown Delay After The Warning Time (Range: | 0-2880) |

2.3.2.8 When Power Failure, OS Shutdown Warning Time Set the Warning Time for system shutdown operation after Power Failure. The selectable time is from 0 min. to 2880 min.

| | When Power Failure, OS Shutdown Warning Time (Range:0-2880) | 10 Mi | nute |
|---------|--|--|---|
| 2.3.2.9 | When Battery Low, OS Shutdown Warning Ti Set the Warning Time for system shutdow Battery Low. The selectable time is from 0 min | ime vn operati 1. to 2880 r | on after nin. |
| | When Battery Low, OS Shutdown Warning Time (Range:0-2880) | 0 | Minute |
| 2.3.2.1 | When Battery Capacity less than or equal the second shutdown Warning Time Set the Warning Time for system shutdow Battery Low. The selectable time is from 0 min. The selectable time is from 0 min. to 2880min. The selectable battery Capacity is form 0% to 9 □ When Battery Capacity is less or equal (0-90) OS Shutdown Warning Time (Range:0-2880) | setting lev vn operati 1. to 2880 r 90%. 20 1 | el, OS on after nin.] %] Minute |

2.3.2.11 Turn off UPS, UPS Output Shutdown Delay After warning Time time Set time interval from Windows shutdown to UPS turn-off. The selectable time is from 0.2 min. to 99min.

| I'um Off UPS | | |
|---|---|----------------------------|
| UPS Output Shutdown Delay After The Wanning Time (Range: 0-99): | 2 | Minute |

2.3.3 E-Mail Configuration

Configure to send the event message (e.g. AC Power Fail) to specific one by E-mail. The following section is for the detail configuration approach.

| E-Mail Configuration | | | A | — | × | | |
|---|-------------|-----------|------------------------------|-------------------|----|--|--|
| Ber Name: | XXX | | | Email Test | | | |
| User Email Address: | XXX@XXX.com | | | Password : | | | |
| SMTP Server: | XXX.com | | | SMTP Server Port: | | | |
| Receiver Name: | XXX | | Mail To: | XXXX@XXXX.com | | | |
| Subject: | TEST Email | | | | | | |
| CSend Setting | | | | | | | |
| Communication H | istablished | Mail mess | age UPS conne | ct | | | |
| Communication I | ost | Mail mess | age UPS discon | mect | | | |
| OS Shutdown Started | | | Mail message System shutdown | | | | |
| Power Failed | | Mail mess | age Power failu | ure | | | |
| Low Battery | | Mail mess | age Battery low | / | | | |
| Power Restored | | Mail mess | age Power resto | pred | | | |
| 🔲 UPS Shutdown St | arted | Mail mess | age UPS shutdo | own | | | |
| Over Load | | Mail mess | age Over load | | | | |
| Battery Error Mail message Battery weak | | | | | | | |
| UPS Self Testing | | Mail mess | age UPS test | | | | |
| | | | | | | | |
| | | | D | OK Canc | el | | |

A. Email Test:

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

B. Account Settings:

- User Name: Sender
- User Email Address: select a sender E-Mail
- Password: Password of your email server
- SMTP Server: SMTP server or IP address
- SMTP Server port: SMTP Server port
- Receiver Name: name of receiver
- Mail To: Mail address of receiver
- Subject: Subject of E-Mail

Note: If you want to send an email to more than 1 email address, you must use ";" to separate email addresses.

C. Send Setting:

You can use the default message or set or modify your own in English.

D. Save Setting:

Click "OK" to save and apply settings.

Note: Internet Firewall may not allow this E-Mailing function.

2.3.4 Data Log

The data log can be read directly via Emily2 or export to an file with xls or txt format for application. The following section is for the detail operation.

| ors Name: U | i an | A | | 12121 | | opuade | |
|------------------|------|---------------|----------------|----------|--------------------|---------------------|-------------|
| Work Progress: | | | | | Export | First | Last |
| Time | Ŧ | Input Voltage | Output Voltage | UPS Load | Input Frequency | Battery Capacity | Temperature |
| 2021/05/27 10:57 | | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:57 | :02 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:56 | :51 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:56 | :40 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:56 | :29 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:56 | :18 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:56 | :07 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:55 | :56 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:55 | :45 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:55 | :34 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:55 | :23 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:55 | :12 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:55 | :01 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |
| 2021/05/27 10:54 | :50 | 121.6 | 121.6 | 2 | 59.8 | 100 | 30 |

A area:

Choose the "Date", and click "Update" for data refreshing.

| UPS Name: UPS 1 | Date: | 2021/05/18 | | Update |
|-----------------|-------|------------|----------|--------|
| ore name. ore r | 2000. | 001100110 | <u> </u> | opada |

B area:

- Export: Click to export the current data into "xls" or "txt" format.
- First: Click to go to the first recorded entry.
- Last: Click to go to the last recorded entry.

2.3.5 Event log

The event log can be read directly via Emily2 or export to an file with xls or txt format for application. The following section is for the detail operation.

| | UPS Name : UPS | 1 Date : 2021/0 | 1 Select | |
|-------|---------------------|--------------------------------|---------------------------|------------|
| Filte | r Connect UPS | UPS Failed / Battery disconnec | t Dever Restored | Select All |
| | Disconnect UPS | Self Test | Execute App | Clear |
| | Power Failure | Shutdown UPS | Enror Code | Eilter |
| | Battery Low | Over Load | | Puer |
| | Work Progress | Export | First Last | |
| _ | Data Time | UPS Name | Event | |
| • | 2021/01/14 12:48:13 | UPS 1 | Communication Lost | |
| | 2021/01/14 12:48:33 | UPS 1 | Communication Established | |
| | 2021/01/14 13:13:36 | UPS 1 | Power Failed | |
| | 2021/01/14 13:13:45 | UPS 1 | Power Restored | |
| | 2021/01/14 13:13:45 | UPS 1 | Shutdown Cancelled | |
| | 2021/01/14 13:14:06 | UPS 1 | Power Failed | |
| | 2021/01/14 13:14:07 | UPS 1 | OS Shutdown Started | |
| | 2021/01/14 13:15:07 | UPS 1 | UPS Shutdown Started | |
| | 2021/01/14 13:16:51 | UPS 1 | Communication Lost | |
| | 2021/01/14 13:18:57 | UPS 1 | Communication Established | |
| | | 110.0 4 | | |

A area:

Choose the "Date", and click "Select" for data refreshing.

| | | | - | |
|------------------|--------|---------|-------|--------|
| UPS Name : UPS 1 | Date : | 2021/01 | | Select |

B area:

Event log filter for read or export

C area:

- Export: Click to export the current data into "xls" or "txt" format.
- First: Click to go to the first recorded entry.
- Last: Click to go to the last recorded entry.

2.3.6 Schedules

Emily2 supports the scheduling self test, turn-on and turn-off function for UPS. The following section is for the detail configuration approach.

Schedul

| [UPS 1] 2021/01/30 15:13 Saturday UPS Sc [UPS 1] 2021/01/30 17:13 Saturday Shutdo | elf-Test 10 second wn Operating System and UPS | Once 2021/01/30 17:15 Sati | nday Tum On UPS | Once |
|--|---|-------------------------------|------------------------|------|
| Next Test Time | 1/30/2021 3:13:00 PM | | A | 1 |
| Next Shutdown Time Next Restart Time | 1/30/2021 5:13:00 PM 1/30/2021 5:15:00 PM | | Delete Edit Exit | |

A area:

- Add: Create a new task. Please refer to section 2.3.6.1 for detail
- Delete: Delete a task
- Edit: Edit a task Please refer to section 2.3.6.2 for detail
- Exit: Exit the Schedules

2.3.6.1 Add Schedules

A.Executive Time:

- Date: Date Setting.
- Time: Time Setting.
- Frequency: Set execute cycle of the schedule.

B.Control:

- Self-test for 10 seconds.
- Self-test for (1-99) minutes.
- Self-test until Battery condition xx%
- Self-test until Low Battery condition.
- Shutdown Operating System and UPS or Turn on UPS

C.Function: Add or Cancel schedule

| Tas | k × | | | | | |
|-----|--|--|--|--|--|--|
| | A UPS Name : UPS 1 | | | | | |
| | Time: 15:15 | | | | | |
| | Frequency Once Daily Weekly Monthly | | | | | |
| | Control | | | | | |
| | UPS Self-Test 10 second UPS Self-Test (1 - 99) 1 Minute | | | | | |
| | UPS Self-Test until Battery condition 20 V % | | | | | |
| | O UPS Self-Test until Low Battery condition | | | | | |
| | Shutdown Operating System and UPS Turn On UPS | | | | | |
| | C Add Cancel | | | | | |

2.3.6.2 Edit Schedules

Frist, Select the schedule you want to modify. And click "Edit" to modify task.

| edules | | | | | | | | | |
|--------|------------|-------------------------|-------------------|-----------------|----------------|------------|--------------|-----------------------|--------|
| | | | | | | | | | |
| UPS 1] | 2021/01/30 | 15:13 Saturday | UPS Sel | lf-Test 10 seco | ond | Once | 12.15.0 | T | |
| Jr5 [] | 2021/01/30 | 17:13 Saturday | Snutdov | wn Operating : | system and UPS | 2021/01/30 | 17:15 Safurd | ay ium On UP | s Once |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | 644 | |
| | | Next Te | st Time | 1/30/2021 3 | 3:13:00 PM | | | Add | |
| | | Next Te Next Shutdow | st Time n Time | 1/30/2021 3 | 3:13:00 PM | |] | Add Delete Edit | |

Click "Edit" to modify and save this task.

| | UFS Name : UFS 1 UFS & OS Shuthown : 2021/01/14 15-20 UFS Reboot : 2021/01/14 15-30 Frequency @ Once Duly Weekly Monthly Control UFS Self-Test 10 second UFS Self-Test until Battery condition 20 UFS Self-Test until Battery condition @ Shuthown Operating System and UFS _ Turn On UFS | UPS Name : UPS 1 Date : 2021/01/14 Thurnday • Time : 15.37 • Progremary © Once O Daily O Weekly O Monthly Control © UPS Self-Test 10 second UPS Self-Test (1 - 99) 1 Minute UPS Self-Test (1 - 99) 1 Minute UPS Self-Test unit Bettery condition Struttown Operating System and UPS VITS |
|--|--|--|
|--|--|--|

2.3.7 Oscillograph

It is visual data curve for easy check.



2.3.8 About

It displays copyright and version information of Emily2.



2.4 Pop-up message

When event occurred (e.g. power fail battery low ... etc.), Emily2 will pop up a message to remind the user to handle it.

