OMRON

Automatic shutdown software

PowerAttendant Standard Edition

Console Setup Guide

Before you begin

This setup guide describes the steps to perform the main configuration of PowerAttendant Standard Edition (the Software) in the console. For information on how to install the Software and how to configure it when using a browser, please refer to the Software's instruction manual.

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Eligible Products

- This configuration guide covers the following products:
  - PowerAttendant Standard Edition

Target Readers

- This Setup Guide is intended for the following people.
  - Knowledge of using software for Windows and responsible for the implementation and operation of UPS
  - Knowledge of using software for Linux and responsible for the implementation and operation of UPS
  - Those who wish to use the console to configure the Software

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How to read the instruction manual

What is described in this Setup Guide

It describes how to set up using the console of this software.
For details on how to install the Software and its functions, please refer to the Software's instruction manual.
For an explanation of the UPS itself, please refer to the instruction manual of each UPS.

About page structure and symbols

The configuration and symbols of each page of this configuration guide are as follows:

About Mark

Please
Indicating that the Software should be implemented or avoided in advance to prevent the Software from being inoperable, malfunctioning, or adversely affecting its performance or functionality.

Note
This is an item that I would like you to read if necessary.
It explains useful information to know and what you can refer to when using it.

Shows the location for more information and related information.

About notation

This configuration guide describes the items and buttons on the software screen as follows:

「 」 .....This is the item displayed on the screen that represents the screen name and settings.
(Example) "Main Menu"
[ ] .....The item displayed on the screen represents the object to be operated (the operation command to be entered).
(Example) [End of "Q"]

Glossary

Except as otherwise explained, this instruction manual uses the following terms:

Terminology	Commentary
UPS	It is an uninterruptible power supply. This device provides stable power to connected devices in the event of an abnormality in the utility power supply.
Connected Equipment	It is a device that connects to a UPS and receives power from the UPS battery in the event of a power outage.
Commercial power supply	It is the electricity transmitted by the power company.
AC Input	It is the power supplied from a utility power source to a UPS.
Power output	It is the power supplied from the UPS to the connected devices.
Standby mode	Power is supplied to the UPS from the utility power supply, but the UPS is not turned on.
Commercial operation, commercial mode	It is an operating state in which power is supplied from the utility power supply to the UPS, and power is supplied from the UPS to the connected devices.
backup operation, Battery Mode	This is an operating condition in which an AC input abnormality occurs and power is supplied from the UPS battery to the connected devices.
Cold Start	Even when there is no AC input, the UPS is started with battery power to supply power to the connected devices.
Self-diagnostic tests	This test is used to detect UPS failure or battery degradation.
Product Number	This is the serial number, serial number, S/N, and SN of the UPS used with the software.
Cooperation Shutdown	In the event of an input power failure (power outage, etc.), multiple computers on the same network are automatically shut down in conjunction with each other. It consists of one primary and one or more secondary.
Primary	In the configuration of the cooperative shutdown, it is directly connected to the UPS and performs an automatic shutdown when it recognizes that an input power failure (power outage, etc.) has occurred. The primary is the computer on which the Software is installed.
Secondary	This is the role of working with the primary and network to perform automatic shutdown. The secondary is the computer on which the Software is installed.

1. Feature Overview

The PowerAttendant Standard Edition Console (hereinafter referred to as the "PAS Console") is the software that allows you to configure the Software in the console.
In an environment where a browser cannot be used, you can use the console screen to configure the software.
This setup guide only describes how to operate the PAS console. For more information on each function of the Software, please refer to the following table and refer to the Instruction Manual of the Software.

Item Name	Contents	This Setup Guide	Instruction manual
UPS Monitor	Displays the status of your UPS and more.	「3-1 UPS Monitor」 (page 14)	"3-1 Screen configuration of the software"
Shutdown Parameter	Set the settings for automatic shutdown in the event of an input power failure.	「3-2 Shutdown Parameter」 (page 15)	5. Set the automatic shutdown function (Shutdown Parameter)
Log	View log information.	「3-3 Log」 (page 19)	7. Check Logs
Cooperation Shutdown	Set up automatic shutdown of multiple computers connected to the network.	「3-4 Cooperation Shutdown」 (page 25)	8. Automatically shutdown multiple computers (Cooperation Shutdown)
Schedule	Follow a preset schedule to set up your computer to automatically shut down.	「3-5 Schedule」 (page 30)	10. Register a schedule and perform the set actions
COM Port Setting	Configure the settings for connecting the UPS to the computer with the RS232C.	「3-6 COM Port Setting」 (page 34)	Windows 13.Configure the COM port Linux 13.Configure the Serial port
Setting File	Save and read the configuration information of the Software to a file.	「3-7 Setting File」 (page 36)	18. Import and export configuration files"
UPS Setting	Configure the items to be set on the UPS console.	「3-8 UPS Setting」 (page 37)	14. Changing the settings on the UPS console
UPS Control	Perform operations to control UPS.	「3-9 UPS Control」 (page 39)	15. Control the UPS itself.
User Management	Change the user ID and password.	「3-10 User Management」 (page 40)	16. Change Login ID and Password
Others	Configure port settings, display popup, send commands, and more.	「3-11 Others」 (page 42)	17. Other settings
Help	Displays information about the Software and the connected UPS.	「3-12 Help」 (page 43)	19. Check the version information

Please

・When configuring this software via a browser, it is possible to set up the 'Smart Task,' and 'Email Notification' functions; however, these settings cannot be configured in the PAS console. They will remain at the default settings.

For information on how to install and uninstall the Software, please refer to the Software's instruction manual.

「3. Install」

「6. Uninstall」

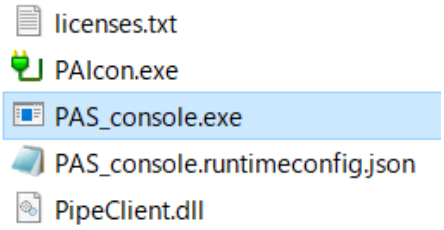
1-1 Starting the PAS Console

By running the PAS console at the place where the software is installed, the PAS console screen will be launched.

For Windows

Start the PAS console in one of the following ways:
If you do not change the installation location during installation, the installation folder is as follows.
C:¥Program Files¥OMRON¥PowerAttendant

When launching from File Explorer
Double-click the PAS_console.exe in the installation folder.



When launching from the Command Prompt
Run the PAS_console.exe in the installation folder.

```
2024/02/08  16:16          167,424 PAIcon.exe
2024/04/01  14:43        1,497,844 PAS_console.exe
2024/01/11  17:59              253 PAS_console.runtimeconfig.json
2024/02/08  16:16          137,728 PipeClient.dll
2024/04/01  14:41        6,313,180 PowerAttendant.exe
```

For Linux

Launch the PAS console in the following way:
The installation directory is as follows:
/opt/OMRON/PowerAttendant

Run the PAS_console in the installation directory with the following command:
sudo ./ PAS_console

```
-rwxr-xr-x 1 root root    60000 Dec 12 16:31 PAIcon
-rwxr-xr-x 1 root root      142 Sep  5  2023 PAIcon.desktop
-rwxr-xr-x 1 root root     8432 Sep  8  2023 PAIconInit
-rwxr-xr-x 1 root root  1332040 Mar  6 15:29 PAS_console
-rwxr-xr-x 1 root root 18423320 Mar 27 09:44 PowerAttendant
-rw-r--r-- 1 root root    34382 Jul 27  2017 PowerAttendant.png
```

1-2 Settings at First Startup

When you start the software for the first time, you need to set a login ID and password to use with the software.
If you have already set up the first start in the browser, you do not need to configure the first start configuration in the PAS console.
If you start the PAS console without setting the settings for the first start in the browser, follow the steps below to set the login ID and password.

Please

- This screen sets the login ID and password.
  Login to the Software is displayed on the top screen of the Software and then set up here.
  Login ID and password to log in.
- Login ID and password can be changed later, but you need to log in to change them. For this reason, please do not forget the login ID and password information you set when you first start the startup.

1. Login ID settings
The login ID must be between 1 and 128 characters.

```
Initialization

[Number of characters1~128]
Login Id:Admin
```

2. Set a password
The password must be between 8 and 32 characters,
and contain at least one uppercase letter, one lowercase letter, one number, and one symbol.
You will be asked to re-enter your password, so please enter the same password again.

```
[Number of characters8~32 At least 1 upper/lower case/number/symbol]
Password:****************
Password Confirm:****************
```

3. Mode selection
Select the mode on first startup.

```
Mode Selection
 1 Primary
 2 Secondary : Communication with Primary
 3 Secondary : Communication with Network Card

>1
```

After selection, you will be prompted to log in.
"3 Secondary : Communication with Network card" is not used in S8BA.

2. Screen and Controls

2-1 Screen Configuration

The screen of the PAS console is configured as follows.
At launch, you will see the main menu as below.

```
---Main Menu---
 1 UPS Monitor
 2 Shutdown Parameter
 3 Log
 4 Cooperation Shutdown
 5 Schedule
 6 COM Port Setting
 7 Setting File
 8 UPS Setting
 9 UPS Control
10 User Management
11 Others
12 Help

[Q]Quit, [O]Logout

Admin>
```

(1) Menu display area

(2) Operation Command Area

① Menu display area
Displays a menu for setting and operating.
Depending on the menu you selected, the appropriate settings are displayed.

② Operation Command Area
Displays a menu for setting and operating.
Depending on the menu you selected, you will see the appropriate operation commands.
You can only execute the commands displayed on the screen.

The following commands are available:

Operation Command Name	Contents
"Q" quit	Exiting the PAS console
"B" back	Back to one previous
"M" main menu	Back to main menu
"S" Save	Save the settings
"C" registration	Create a schedule
"C" Connect	Start a COM connection with your UPS
"D" Disconnect	Disconnect the COM connection with the UPS
"O" logout	Log out
"Esc" cancellation	Cancel an operation

2-2 Main Menu

This is the main menu of the PAS console.
Enter the number of the menu you want to run and press the Enter key to display the screen of the selected menu.

```
---Main Menu---
 1 UPS Monitor
 2 Shutdown Parameter
 3 Log
 4 Cooperation Shutdown
 5 Schedule
 6 COM Port Setting
 7 Setting File
 8 UPS Setting
 9 UPS Control
10 User Management
11 Others
12 Help
```

Number	Item Name	Contents
1	UPS Monitor	Displays the status of your UPS and more. 「3-1 UPS Monitor」(page 14)
2	Shutdown Parameter	Set the settings for automatic shutdown in the event of an input power failure. 「3-2 Shutdown Parameter」(page 15)
3	Log	View log information. 「3-3 Log」(page 19)
4	Cooperation Shutdown	Set up automatic shutdown of multiple computers connected to the network. 「3-4 Cooperation Shutdown」(page 25)
5	Schedule	Follow a preset schedule to set up your computer to automatically shut down. 「3-5 Schedule」(page 30)
6	COM Port Setting	Configure the settings for connecting the UPS to the computer with the RS232C. 「3-6 COM Port Setting」(page 33)
7	Setting file	Save and read the configuration information of the Software to a file. 「3-7 Setting File」(page 36)
8	UPS Setting	Configure the items to be set on the UPS console. 「3-8 UPS Setting」(page 37)
9	UPS Control	Perform operations to control UPS. 「3-9 UPS Control」(page 39))
10	User Management	Change the user ID and password. 「3-10 User Management」(page 40)
11	Others	Set the port number used by the Software. 「3-11 Others」(page 42)
12	Help	Displays information about the Software and the UPS you are connected to. 「3-12 Help」(page 43)

2-3 Login and Logout

If you want to configure the settings in the PAS console, you must log in to the PAS console with the login ID and password that you set up at the first boot. If you fail to log in 3 times in a row due to an incorrect login ID or password, you will be automatically locked (you cannot log in for 2 minutes). While locked, you will not be able to log in even if you enter the correct login ID and password, so please wait for the unlock to be unlocked.

2-3-1 Login

When the Software is launched

1. By running the PAS console at the place where the software is installed, the PAS console screen will be launched. The boot method varies depending on each OS.
「1-1 Starting the PAS Console」（page 7）

2. You will be prompted to log in below, so enter your login ID and password.

```
---Login---
Login Id:Admin
Password:**********
```

Once logged in, you will see the main menu.

When the Software is running
If you're not logged in when you try to review or change your settings, you'll be prompted to log in.

Example: If you try to check the settings of the shutdown parameter while not logged in.

```
---Main Menu---
 1 UPS Monitor
 2 Shutdown Parameter
 3 Log
 4 Cooperation Shutdown
 5 Schedule
 6 COM Port Setting
 7 Setting File
 8 UPS Setting
 9 UPS Control
10 User Management
11 Others
12 Help
```

You will be asked to enter your login ID and password.

```
---Login---
Login Id:Admin
Password:**********
```

You can check or change the setting information of the shutdown parameters after logging in.

```
---Shutdown Parameter---
 1 OS Shutdown: Yes
 2 OS Shutdown Mode: Shutdown
 3 Delay Time: 60 sec
 4 Time required for OS shutdown: 1 min
 5 Output Stop Time: 1 min

[B]Back, [S]Save, [M]Main Menu, [O]Logout
```

Note

You can only log in if you are not logged in to check or change your settings.
While logged in, you can continue to change settings.

2-3-2 Logout

If you are logged in, you will always see "O" Log Out in the operation command area.

```
[B]Back, [S]Save, [M]Main Menu, [O]Logout

Admin>
```

You can log out by typing [O].

Note

You can change the login ID and password you set at the time of the first boot.
For more information on how to change it, please refer to the following:
「3-10 User Management」(page 40)

3. Screen description

This section describes the screen that appears when selecting each menu in the PAS console.

3-1 UPS Monitor

This is the first screen that appears when the PAS console is launched. You can check the status of the connected UPS.
The content is the same as the information displayed in the "fixed display area" when the screen of the Software is displayed in a browser.
The content displayed varies depending on the UPS model you are connected to.

```
---UPS Monitor---
Model:S8BA-24D24D240LF
Operation Status:Normal Operation
Battery Status:Battery Normal
Connection Type:USB
Output Status: ON
Input Voltage: 023.9 V
Input Frequency: --.- Hz
Output Voltage: 023.9 V
Output Frequency:  Hz
Output Load: 4 %
Battery Level: 100 %

[Esc]Cancel
```

3-2 Shutdown Parameter

Set the shutdown operation when an input power failure (such as a power outage) occurs.
The content displayed varies depending on the UPS model you are connected to.

3-2-1 Basic Setup

When to shutdown the OS

When an input power failure (e.g., power outage) occurs, if you want to perform an automatic shutdown,
「1 Set "1 OS Shutdown" in "1 Basic Settings" to "Yes" to "Shutdown Parameter" - "1 Basic Settings".
The screen displayed varies depending on the UPS model you are connected to.

```
---Shutdown Parameter---
 1 OS Shutdown: Yes
 2 OS Shutdown Mode: Shutdown
 3 Delay Time: 60 sec
 4 Time required for OS shutdown: 1 min
 5 Output Stop Time: 1 min
```

Number	Item Name	Description
2	OS Shutdown Mode	Sets the end state of the OS in the event of an input power failure (e.g., power failure). Choose between Shutdown and Hibernate. * "Pause" saves the desktop state to the hard disk. It ends. Revert to the pre-hibernate desktop state upon reboot I will. We recommend "pause" if: ・There is data that you want to save when the OS is terminated. ・I want to terminate the OS in the shortest possible time.
3	Delay Time	The software detects an input power failure and initiates shutdown. Set the time to do so. *This time is the time to see if the input power failure recovers or how it goes. *If the power is restored within this time, the shutdown will not start.
4	Time required for OS shutdown	Set the required time from the start of the OS shutdown to ensure completion I will. We recommend that you actually measure the time it takes to shut down the computer using the software and set that time.
5	Output Stop Time	Set the time until the output stops.

When you are finished, enter [S] to save the settings.

If you don't shut down the OS

If you want to maintain the output from the UPS without performing automatic shutdown when an input power failure (such as a power outage) occurs, set "1 OS Shutdown" to "1 OS Shutdown" in "1 Shutdown Parameter" - "1 Basic Settings" to "No".

```
---Shutdown Parameter---
 1 OS Shutdown: No
 2 UPS Backup Mode: Run Until Battery Runs Out

[B]Back, [S]Save, [M]Main Menu, [O]Logout

Admin>2

UPS Backup Mode:
 1 Run Until Battery Runs Out *
 2 Maximum Backup Time
```

```
---Shutdown Parameter---
 1 OS Shutdown: No
 2 UPS Backup Mode: Maximum Backup Time
 3 Maximum Backup Time:  min
```

Number	Item Name	Description
2	UPS Backup Mode	If you select "1 Back up until battery is gone", the UPS will continue to output until the battery runs out. If you select 2 Set maximum backup time, continue output until the time set in 3 Set maximum backup time.

When you are finished, enter [S] to save the settings.

3-2-2 Options

Set the shutdown operation when the UPS battery level is low during an input power failure, or when a UPS itself needs to shut down urgently, such as when the UPS itself fails.

```
---Shutdown Parameter---
 1 Basic
 2 Option

[B]Back, [M]Main Menu, [O]Logout

Admin>2

---UPS Abnormal Shutdown Options---
 1 Emergency Shutdown
 2 UPS Error Shutdown
 3 UPS Battery Error Shutdown
```

Number	Item Name	Description
1	Emergency Shutdown	When the UPS has a low battery level (battery low), it immediately starts shutting down. Shutdown works according to the settings in the shutdown parameters, but ignores the wait time and task time. However, if the battery is already low while running a task, the task will run to the end. The default value is OFF.
2	UPS Error Shutdown	If there is an abnormality in the UPS body, it will start shutting down. You can select the type of anomaly that triggers the shutdown behavior from the following events: ・UPS Fault Detect ・Battery Disconnect ・Overload ・Output Voltage Over ・Output Voltage Low ・Output Short Abnormal ・DC Bus Voltage Abnormal ・Transformer Abnormal ・Over Temperature ・Fan abnormal The above settings are displayed in common to all UPS. However, some items are not supported by some UPS models. In that case, the item will not be in an abnormal state as UPS, so it will not perform a shutdown operation even if the setting is ON. The initial values are all OFF.
3	UPS Battery Error Shutdown	If the battery of the UPS itself encounters an abnormality, it will start shutting down. You can select the type of anomaly that triggers the shutdown behavior from the following events: ・Battery Fault ・Battery Weak ・BatteryPacket Misconnection ・Battery Overcharge ・Battery Undercharge ・BMS Over Current ・BMS Internal Error ・Charger Fail ・BMS Cell Over Voltage ・BMS Cell Under Voltage The above settings are displayed in common to all UPS. However, some items are not supported by some UPS models. In that case, the item will not be in an abnormal state as UPS, so it will not perform a shutdown operation even if the setting is ON. The initial values are all OFF.

When you are finished, enter [S] to save the settings.

```
---UPS Abnormal Shutdown Options---
 1 Emergency Shutdown
 2 UPS Error Shutdown
 3 UPS Battery Error Shutdown

[B]Back, [S]Save, [M]Main Menu, [O]Logout

Admin>2

---UPS Error Shutdown---
 1 UPS Fault Detect:OFF
 2 Battery Disconnect:OFF
 3 Overload:OFF
 4 Output Voltage Over:OFF
 5 Output Voltage Low:OFF
 6 Output Short Abnormal:OFF
 7 DC Bus Voltage Abnormal:OFF
 8 Transformer Abnormal:OFF
 9 Over Temperature:OFF
10 Fan Abnormal:OFF
```

```
---UPS Abnormal Shutdown Options---
 1 Emergency Shutdown
 2 UPS Error Shutdown
 3 UPS Battery Error Shutdown

[B]Back, [S]Save, [M]Main Menu, [O]Logout

Admin>3

---UPS Battery Error Shutdown---
 1 Battery Fault:OFF
 2 Battery Weak:OFF
 3 BatteryPacket Misconnection:OFF
 4 Battery OverCharge:OFF
 5 Battery UnderCharge:OFF
 6 BMS Over Current:OFF
 7 BMS Internal Error:OFF
 8 Charger Fail:OFF
 9 BMS Cell Over Voltage:OFF
10 BMS Cell Under Voltage:OFF
```

3-3 Log

Records events that occur on the UPS or the Software and the status of the UPS power supply.
There are 5 menus for this software's logs: "Event Log", "History Log", "UPS Data Log", and "EBM Log", but there is no menu for "Task History Log" in the PAS console.
If you want to check the data for each log, please check it in the exported file instead of on the screen of the PAS console.

```
---Log---
 1 Export Event Log
 2 Export History Log
 3 Export UPS Data Log
 4 Export EBM Log
 5 Log Setting
```

Number	Item Name	Description
1	Event Log	Records events that occur in the Software and UPS.
2	History Log	Records the user's interaction with the software.
3	UPS Data Log	Record the status of UPS.
4	EBM Log	Record the status of the Expansion Battery Log only when the is connected.
5	Log Setting	Set the logging conditions, etc.

No.4 is not used in S8BA.

Please

The hardware abnormalities of the UPS itself displayed in the Event Log are detected differently for each model.
For more information about hardware anomalies, refer to the UPS owner's manual.

3-3-1 Event Log

Records events that occur with UPS and the Software.

```
---Log---
 1 Export Event Log
 2 Export History Log
 3 Export UPS Data Log
 4 Export EBM Log
 5 Log Setting

[B]Back, [M]Main Menu, [O]Logout

Admin>1

---Export Event Log---
Path to Save:C:\temp

Export completed
```

Once the export is complete, the following file will be downloaded to the specified location:
The number in the file name is the date you performed the export.
EventLog20240314.zip

When unzipped, it will become a CSV file like the one below, so please check the contents of the Event Log.
EventLog.csv

Event Log contents

Item Name	Description
Date and time	The date and time when the event occurred.
Levels	Level of events. There are 3 types of "errors": "warning" and "information".
Type	"UPS" ⇒ an event related to UPS. "PowerAttendant" ⇒ events related to the Software. "Collaborative Shutdown" ⇒ Events related to Collaborative Shutdown "COM Port Configuration" ⇒ COM Port Configuration events Schedule ⇒ Scheduled events Email Notication ⇒ Email Notication events
Event Log	The content of the event that occurred.

3-3-2 Operation History Log

Records the user's interaction with the software.

```
---Log---
 1 Export Event Log
 2 Export History Log
 3 Export UPS Data Log
 4 Export EBM Log
 5 Log Setting

[B]Back, [M]Main Menu, [O]Logout

Admin>2

---Export History Log---
Path to Save:C:\temp

Export completed
```

Once the export is complete, the following file will be downloaded to the specified location:
The number in the file name is the date you performed the export.
HistoryLog20240315.zip

When unzipped, it will become a CSV file as shown below, so please check the contents of the operation History Log.
EventLog.csv

Contents of the operation history log

Item Name	Description
Date and time	The date and time the user interacted with.
Type	The type of menu that the user interacted with.
Actions	User-operated behavior. There are 3 types: "Register", "Change", and "Delete".
Actions	Items that were interacted with by the user.
Before the change	Contents before the change.
After the change	Contents after the changes.

3-3-3 UPS Data Log

Record the status of UPS.

```
---Log---
 1 Export Event Log
 2 Export History Log
 3 Export UPS Data Log
 4 Export EBM Log
 5 Log Setting

[B]Back, [M]Main Menu, [O]Logout

Admin>2

---Export History Log---
Path to Save:C:\temp

Export completed
```

Once the export is complete, the following file will be downloaded to the specified location:
The number in the file name is the date you performed the export.
UPSDataLog20240315.zip

When unzipped, it will become a CSV file as shown below, so please check the contents of the operation History Log.
UPSDataLog2024-03-15.csv

Contents of UPS Data Log

Item Name	Description
Date and time	The date and time when you got the UPS status.
Model	UPS Model
Input Voltage (V) Input Frequency (Hz)	Input Voltage and Input Frequency
Output Voltage (V) Output Frequency (Hz)	Output Voltage and Output Frequency
Battery Voltage (V)	Battery Voltage
Connection capacity (%)	Capacity of the load connected to the UPS
Internal temperature (° C)	UPS internal temperature
Battery capacity (%)	Battery capacity

3-3-4 Expansion Battery Log

*This function is not available on S8BA.

3-3-5 Log Setting

Configure the settings for each Log.

```
---Log---
 1 Export Event Log
 2 Export History Log
 3 Export UPS Data Log
 4 Export EBM Log
 5 Log Setting

[B]Back, [M]Main Menu, [O]Logout

Admin>5

---Log Setting---
 Event Log
 1 Max Event Log Number: 1000
 Operation History Log
 2 Max History Log Number: 1000
 Data Log
 3 Max Period: 15week
 4 Log Interval(Normal mode): 60sec
 5 Log Interval(Bettary mode): 10sec
 Extended Battery Log
 6 EBM Max Period: 15week
 7 Extended Battery Log Interval: 60sec
```

Number	Item Name	Description
1	Max Event Log Number	The maximum number of events that can be logged.
2	Max History Log Number	The maximum number of operations that can be logged.
3	Max Period	The maximum period for which Data Log can be recorded.
4	Log Interval (Normal mode)	Data Log recording interval during Normal operation.
5	Log Interval (Battery mode)	Data Log recording intervals during Battery operation.
6	EBM Max Period	The maximum period for which the Expansion Battery Log can be recorded.
7	Extended Battery Log Interval	Expansion Battery Log recording interval.

⑧ and ⑨ are not used in S8BA.

3-4 Cooperation Shutdown

In a configuration where multiple computers are powered by a single UPS, in the event of an input power failure (e.g., power outage), all computers can be shut down in conjunction with the network.
Install the Software on all computers and set the computer that can communicate directly with the UPS with the USB or RS-232C as the primary and the other computers as the secondary.

If you select "4 Shut down linkage" in the "Main Menu", the following screen will be displayed.

For Primary

```
---Cooperation Shutdown---
 1 Communication to Secondary
 Cooperation Mode: Primary
 Host Name: MLRH2707
 Port Number: 401
 Cooperation Status: Stop
 2 Setting
```

Number	Item Name	Description

1	Communication to Secondary	Set "Stop" and "Start" of communication with the secondary.
		If you set it to "1 Start integration", you can communicate with the secondary.
		(Responds if communication is received from the secondary)
		`---Communication to Secondary---`
		`Cooperation Status:Stop`
		`1 Start cooperation`
		`[B]Back, [M]Main Menu, [O]Logout`
		`Admin>1`
		`Communication to Secondary Is Enabled`
		If you do not want to use cooperative shutdown (if only one computer is connected to the UPS), set it to "Stop".

2	Setting	Configure the settings for the current integration mode.

In the case of secondary (Communication with Primary)

```
---Cooperation Shutdown---
 1 Communication to Primary
 Cooperation Mode: Secondary : Communication with Primary
 Primary Address: 192.168.100.100
 Port Number: 401
 OS Shutdown Mode: Shutdown
 Cooperation Status: Stop
 2 Setting
```

Number	Item Name	Description

1	Communication to Primary	Set the "stop" and "start" of communication with the primary.
		If you set it to "1 Start integration", you can communicate with the primary.
		(Responds when communication is received from the primary)
		`---Communication to Primary---`
		`Cooperation Status:Stop`
		`1 Start cooperation`
		
		If you do not want to use cooperative shutdown (if only one computer is connected to the UPS), set it to "Stop".

2	Setting	Configure the settings for the current integration mode.

For secondary (Communication with Network Card)

*If the primary connection UPS is S8BA, this function cannot be used because the network card cannot be attached. Do not set it to ' 3-4-3 Setting up a secondary (working with a network card)'

3-4-1 Primary Setting

Use a computer that can communicate directly with the UPS with the USB or RS-232C as the primary.
If you do not use federated shutdown (if only one computer connects to the UPS), it will also be used as the primary.

If the integration mode is "Primary", select "2 Settings" and the following screen will be displayed.

```
---Primary Setting---
 1 Cooperation Mode: Primary
 2 Port Number: 401
```

Number	Item Name	Description

1	Cooperation Mode	Set the integration mode.
		When you select "1 Linkage mode", the following screen will be displayed, so you can set the linkage mode you want to use.
		`---Cooperation Mode---`
		`1 Primary`
		`2 Secondary : Communication with Primary`
		`3 Secondary : Communication with Network Card`

2	Port Number	Set the port number to use to communicate with the secondary. Basically, it is okay to keep the default value, but please change it as necessary, such as if it overlaps with the port number used by software other than this software. Make sure to set the same port number as the secondary. To communicate with the set port number, both the primary and secondary Your computer needs to have a firewall set up. The Configure TCP packets to communicate.

When you are finished, enter [S] to save the settings.

Please

If the Linked State is set to Start, you cannot change it to any other mode.
If you want to change it, set it to "Stop" and then choose a different mode.

Note

The cooperative shutdown is a mechanism that communicates from the secondary to the primary to check whether an input power failure (power outage, etc.) has occurred.
For this reason, the primary does not need to enter the secondary information to which it is connected. All you need to do is set the port number to be used to communicate with the secondary.

3-4-2 Secondary Setting(Communication with Primary)

If the Software is linked to a computer running as the primary mode, set it to this mode.

If the linkage mode is "Secondary Setting (Linked with Primary)", the following screen is displayed when you select "2 Settings".

```
---Secondary Setting:Cooperation with Primary---
 1 Cooperation Mode: Secondary : Communication with Primary
 2 Primary Address: 192.168.100.100
 3 Port Number: 401
 4 OS Shutdown Mode: Shutdown
```

Number	Item Name	Description

1	Cooperation Mode	Set the integration mode.
		When you select "1 Linkage mode", the following screen will be displayed, so you can set the linkage mode you want to use.
		`---Cooperation Mode---`
		`1 Primary`
		`2 Secondary : Communication with Primary`
		`3 Secondary : Communication with Network Card`

2	Primary Address	Set the primary IP address to be linked.
3	Port Number	Set the port number to use to communicate with the primary. Basically, it is okay to keep the default value, but please change it as necessary, such as if it overlaps with the port number used by software other than this software. Make sure to set the same port number as the primary. To communicate with the set port number, both the primary and secondary Your computer needs to have a firewall set up. The Configure TCP packets to communicate.
4	OS Shutdown Mode	Select the shutdown mode for the OS of the computer on which the secondary is running. Choose from "Shutdown" or "Hibernate". If your computer does not support Hibernation, Hibernation will not appear as a selection for OS Shutdown Mode in the Software if Hibernation is not enabled in the OS shutdown settings.

When you are finished, enter [S] to save the settings.

Please

If the Linked State is set to Start, you cannot change it to any other mode.
If you want to change it, set it to "Stop" and then choose a different mode.

3-4-3 Secondary Setting(Communication with Network Card)

*If the primary connection UPS is S8BA, this function cannot be used because the network card cannot be attached. Do not set it to ' 3-4-3 Secondary Setting (Communication with Network Card)'.

3-5 Schedule

At a predetermined date and time, the computer and UPS on which the Software is installed can perform the following actions:

Types of Actions	Contents
UPS Stop	Based on the shutdown parameter settings, stop the UPS after shutting down the OS of the computer connected to the UPS.
Stop/start UPS	After "UPS Stop Operation", the UPS will automatically start up after the specified time.
Self-diagnostic tests	Perform a UPS self-diagnostic test.

Select 5 Schedules from the Main Menu to see the following screen.

```
---Schedule---
 1 Edit Schedule
 2 Create Schedule
```

Number	Item Name	Configuration details
1	Edit Schedule	Edit the contents of the registered schedule.
2	Create Schedule	Register the edited schedule.

For more information on scheduling, please refer to the "10. Register a schedule and execute the set actions.

3-5-1 Schedule Registration

There are 3 types of schedule registration patterns:

「2 If you select "Schedule Registration", the "Schedule Registration" menu will appear.

```
---Create Schedule---
Type:
 1 Only Once
 2 Every Week
 3 Every Month
```

Number	Item Name	Configuration details
1	Only Once	Select if you want to run it only on certain days.
2	Every Week	Select if you want to run it on a specific day of the week.
3	Every Month	Select if you want to run it on a fixed day every month.

If you want to run it only on certain days

This is how to set it up if you want to run it only once at the set date and time.
In the "Schedule Registration" menu, select "Only once".

The following menu will appear, and you can make the necessary settings.

```
Pattern: Only Once
 1 Title: test
 2 Start Day: 2026-04-17
 3 Start Time: 00:00
 4 Action: OS Shutdown
 5 UPS Output Stop: Yes
 6 UPS Stop Mode: Start output after the set time elapses
 7 UPS Stop Duration: 720 min
```

Number	Item Name	Configuration details
1	Title	Set a title that identifies the schedule you want to register.
2	Start Day	Set a date to start this schedule.
3	Start Time	Set the time to start this schedule.
4	Action	Select the action you want to perform on the scheduled date and time. Choose from "O S Shutdown" or "UPS Self-Diagnostic Test".
5	UPS Output Stop	If checked, it will stop the output of UPS after the schedule runs. If it is not checked, it will only perform the operation and the output of UPS will not stop.

6	UPS Stop Mode	When selected, the following menu is displayed.
		`UPS Output Stop Mode:`
		`1 Start output after the set time elapses*`
		`2 Do not start output while stopped`
		If you want to start outputting UPS after the set time has elapsed after performing the shutdown, select "1 Start output after the set time".
		Set the shutdown and restart of the computer connected to the UPS to be scheduled for operation, for example.
		If you want to keep the output of the UPS stopped after performing the shutdown, select "2 Keep the output stopped and do not start the output".

7	UPS Stop Duration	6 If you select "Start output after 1 set time" in "6 UPS Stop Mode", set the period for which the UPS will be stopped.

After the setting is completed, enter [C] to register the schedule.

If you want to run it on a specific day of the week

This is how to set it up if you want to run it on a set day of the week.
Select "Every week" in the "Schedule Registration" menu.

The following menu will appear, and you can make the necessary settings.

```
Pattern: Every Week
 1 Title: test
 2 Start Day: 2026-04-17
 3 Start Time: 00:00
 4 Execution Day: Friday
 5 Action: OS Shutdown
 6 UPS Output Stop: Yes
 7 UPS Stop Mode: Start output after the set time elapses
 8 UPS Stop Duration: 720 min
```

Number	Item Name	Configuration details
1	Title	Set a title that identifies the schedule you want to register.
2	Start Day	Set a date to start this schedule.
3	Start Time	Set the time to start this schedule.
4	Execution Day	Set the days of the week when you run this schedule.
5	Action	Select the action you want to perform on the scheduled date and time. Choose from "O S Shutdown" or "UPS Self-Diagnostic Test".
6	UPS Output Stop	If checked, it will stop the output of UPS after the schedule runs. If it is not checked, it will only perform the operation and the output of UPS will not stop.

7	UPS Stop Mode	When selected, the following menu is displayed.
		`UPS Output Stop Mode:`
		` 1 Start output after the set time elapses*`
		` 2 Do not start output while stopped`
		If you want to start outputting UPS after the set time has elapsed after performing the shutdown, select "1 Start output after the set time".
		Set the shutdown and restart of the computer connected to the UPS to be scheduled for operation, for example.
		If you want to keep the output of the UPS stopped after performing the shutdown, select "2 Keep the output stopped and do not start the output".

8	UPS Stop Duration	6 If you select "Start output after 1 set time" in "6 UPS Stop Mode", set the period for which the UPS will be stopped.

After the setting is completed, enter [C] to register the schedule.

If you want to run it on a fixed day every month

This is how you want to run it every month on the set day.
Select "Monthly" in the "Schedule Registration" menu.

```
Pattern: Every Month
 1 Title: test
 2 Start Day: 2026-04-17
 3 Start Time: 00:00
 4 Execution Day: 17 day
 5 Action: OS Shutdown
 6 UPS Output Stop: Yes
 7 UPS Stop Mode: Start output after the set time elapses
 8 UPS Stop Duration: 720 min
```

Number	Item Name	Configuration details
1	Title	Set a title that identifies the schedule you want to register.
2	Start Day	Set a date to start this schedule. This schedule runs every month on the days you set with 4 Run Dates after you set it as the start date.
3	Start Time	Set the time to start this schedule.
4	Execution Day	Set a day to run this schedule.
5	Action	Select the action you want to perform on the scheduled date and time. Choose from "OS Shutdown" or "UPS Self-Diagnostic Test".
6	UPS Output Stop	If checked, it will stop the output of UPS after the schedule runs. If it is not checked, it will only perform the operation and the output of UPS will not stop.

7	UPS Stop Mode	When selected, the following menu is displayed.
		`UPS Output Stop Mode:`
		` 1 Start output after the set time elapses*`
		` 2 Do not start output while stopped`
		If you want to start outputting UPS after the set time has elapsed after performing the shutdown, select "1 Start output after the set time".
		Set the shutdown and restart of the computer connected to the UPS to be scheduled for operation, for example.
		If you want to keep the output of the UPS stopped after performing the shutdown, select "2 Keep the output stopped and do not start the output".

8	UPS Stop Duration	6 If you select "Start output after 1 set time" in "6 UPS Stop Mode", set the period for which the UPS will be stopped.

After the setting is completed, enter [C] to register the schedule.

Please

・If multiple schedules are registered on the same date and time, the registered schedules will be executed in which order.
I can't identify it. Please register by shifting the time.

3-6 COM Port Setting

Set the COM port to be used when connecting the UPS to the RS-232C.
If you want to connect UPS and COM, make this configuration first.

Note

This setting is only valid when connected to the UPS and RS-232C.

For Windows

When to connect
The following menu will appear:
Select the COM port to be connected with the [↑] [↓] key and enter [C] to connect with the UPS.

```
---COM Port Setting---
COM3
COM5

[C]Connect, []Select, [B]Back
```

When cutting
The following menu will appear:
Enter [D] to disconnect from the UPS.

```
---COM Port Setting---
COM3
COM5

[D]Disconnect, [B]Back

UPS Disconnected
```

For Linux

When to connect
The following menu will appear:
Please manually enter the device name that UPS is using, such as "/dev/ttyS1". Press Enter to connect with the UPS.

```
---Serial Port Setting---
Serial port used for connection with UPS:

[Esc]Cancel
```

```
---Serial Port Setting---
Serial port used for connection with UPS: /dev/ttyS0



UPS Connected

Enter any key to continue.
```

When cutting
The following menu will appear:
Enter [D] to disconnect from the UPS.

```
---Serial Port Setting---
Serial port used for connection with UPS:/dev/ttyS0

[D]Disconnect,[B]Back
```

```
---Serial Port Setting---
Serial port used for connection with UPS:/dev/ttyS0

[D]Disconnect,[B]Back

UPS Disconnected

Enter any key to continue.
```

Please

If you want to stop connecting on the COM port, such as if you want to change to a USB connection with another UPS, click Disconnect to disconnect the C OM connection and then make the change.

3-7 Setting File

You can export the configuration information of this software as an external file or import the exported file.
It can be used to save configuration information or to copy configuration information to the Software installed on another computer.

```
---Setting File---
 1 Export Setting File
 2 Import Setting File
```

Number	Item Name	Configuration details

1	Export Setting File	Export configuration information.
		If you specify the "Path to the location to be saved", a file with the export configuration information to that location will be created with the file name "Config.conf".
		`---Export Setting File---`
		`Path to Save:C:\temp`
		
		`Export completed`

2	Import Setting File	Import configuration information.
		Specify the path name of the file to be imported, and it will be loaded as configuration information.
		`---Import Setting File---`
		`Full path:C:\temp\Config.conf`

3-8 UPS Setting

You can set the settings of the UPS itself, the replacement date of the internal battery, etc.
The screen displayed varies depending on the UPS model you are connected to.

Note

・This setting item is not displayed as a setting item on models that do not have a function that the UPS itself supports.
・For details on the functions of this setting item, refer to the user manual of the UPS itself.

Select 8 UPS Settings in the Main Menu and you will see the following screen.

```
---UPS Setting---
 1 UPS Basic Setting
 2 Ups Restart Setting
```

Number	Item Name	Configuration details
1	UPS Basic Setting	Perform basic settings related to the UPS, such as buzzer settings.
2	UPS Restart Setting	Configure settings related to output control when the UPS starts.

3-8-1 UPS Basic Setting

The following screen is an example of the basic settings screen. What settings are displayed depends on the UPS model you are connected to.

```
---UPS Basic Setting---
 1 battery auto test: ON
 2 Execute self-diagnostic test at the start of output: ON
 3 Buzzer setting: Buzzer All Disabled
 4 input sensitivity: Sensitivity Normal
 5 Date Of UPS Installation: 2025-01-01
 6 Date Of Battery Replacement: 2025-01-01
```

Only the items supported by the connected UPS will be displayed from the following settings.

Item Name	Configuration details
Battery auto test	On the UPS itself, you set whether you want to perform automatic battery tests.
Execute self-diagnostic test at the start of output	Sets whether to run self-diagnostic test at the start of the output.
Buzzer Setting	Choose from the following 3 options for setting to sound the buzzer. "Always disabled", "Disabled when battery is running", "Always active"
Input Sensitivity	Select from the following 3 options for input sensitivity settings. "Standard Sensitivity", "High Sensitivity", "Low Sensitivity"
Date of UPS Installation	Set the start date for using UPS.
Date of Battery Replacement	Set the battery replacement date.

3-8-2 Output Start Setting

UPS Settings related to controlling the output when starting.
The screen displayed varies depending on the UPS model you are connected to.

```
Ups Restart Setting:
 1 UPS output start delay: 10 sec
 2 UPS cold start: OFF
 3 UPS auto start: ON
 4 Output start battery level threshold: 0 %
```

From the following settings, please select the UPS that is connected and should be displayed only in the relevant items.

Item Name	Configuration details
UPS output start delay	Set this too if you want to delay the start of the output when you start the UPS.
UPS cold start	Set up about cold start of UPS. If enabled, it is possible to use the battery to start the UPS even if there is no A or C input to the UPS.
UPS auto start	Set up automatic UPS start-up. If enabled, UPS will automatically start when you restore it.
Output start battery level threshold	Sets the threshold for how much battery power is left before output starts.

3-9 UPS Control

Take control of the UPS. The screen displayed varies depending on the UPS model you are connected to.

Note

・This item will not be displayed as an item on models that do not have a function that the UPS itself does not support.
・For details on the functions of this item, refer to the user manual of the UPS itself.

Select 9 UPS Control in the Main Menu and you will see the following screen.

```
---UPS Control---
 1 Buzzer Test
 2 Function Test
```

Only the items supported by the connected UPS is displayed from the following list.

Item Name	Configuration details
Buzzer Test	A buzzer will sound when selected. Use to check if the buzzer is faulty.
Function Test	When selected, it will run a self-diagnostic test. Please use it to check if the UPS is malfunctioning.

3-10 User Management

You can change the login ID and password of the user.

When you select 10 User Management in the Main Menu, the following screen is displayed.

```
---User Management---
 1 Change Password
 2 Change Login ID
```

Number	Item Name	Configuration details
1	Change Password	Change the password of the registered user.
2	Change Login ID	Change the password of the registered user.

3-10-1 Change your password

Change the password of the registered user.
10 When you select 1 Password Change under User Management, the following screen is displayed.

```
Current Password:**********


[Number of characters8~32 At least 1 upper/lower case/number/symbol]
New Password:**********

Password Confirm:**********


Your password changed, please login again
```

Item Name	Configuration details
Current Password	Enter the password you currently set.
New Password	Enter your new password.
Password Confirm	Re-enter your new password to confirm.

The password must be between 8 and 32 characters,
and contain at least one uppercase letter, one lowercase letter, one number, and one symbol.
You will be prompted to login again, so please login again with the new password you set.

Please

- You must login to change settings in the PAS console.
  Therefore, please do not forget the information of the changed password.

3-10-2 Login ID Changes

Change the password of the registered user.
10 When you select "2 Login ID Change" under "User Management", the following screen is displayed.

```
[Number of characters1~128]
New Login Id:Admin2


Your login ID changed, please login again
```

Item Name	Configuration details
New Login Id	Enter your new login ID.

The login ID must be between 1 and 128 characters.
You will be prompted to log in again, so please log n again with the new password you set.

Please

- You must login to make configuration changes in the PAS console.
  Therefore, please do not forget to manage the login ID information that you have changed.

3-11 Others

You can configure port settings, display popup during shutdown, and send commands.
Select 11 Other in the Main Menu to see the following screen.

```
---Others---
 1 Port Setting
 2 Show popup during shutdown
 3 Command Send
```

Number	Item Name	Description
1	Port Setting	Set the HTTP port number of the Software.
2	Show popup during shutdown	Set the display of the popup during shutdown.
3	Command Send	Send commands to UPS.

3-11-1 Port Configuration

The HTTP port number used for displaying the screen of the Software is set at the time of installation, but it is used when you want to change the HTTP port number to a different HTTP port number because it conflicts with other applications.
If you select 1 Port Settings under More, the following screen will appear.

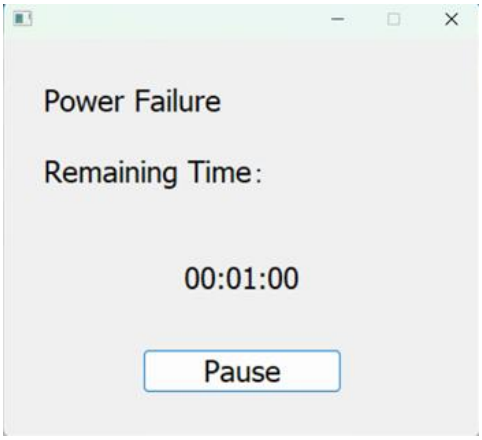
```
---Port Setting---
Port Number(1~65535): 80
```

3-11-2 Displaying Pop-UPS During Shutdown

Set the countdown display to be displayed during shutdown. Select "Enable" if you want to show the popup during shutdown or "Disable" if you want to hide it.

```
Show popup during shutdown:
 1 Enabled *
 2 Disabled
```

Input power failure
The remaining time of the wait time set in the shutdown parameter is displayed.



3-11-3 Command Send

Send commands directly to your UPS.
If you select "Send 3 Commands" under "Other", the following screen will appear.

```
---Command Send---
Command Send:
```

Enter a command and press Enter to see the result of executing the command.

Note

Sending commands is a function used for purposes such as checking the status of the UPS in the event of a fault.
Please use it if you are instructed by Customer Support, etc.

3-12 Help

3-12-1 Version Information

Displays information about the software, connected UPS, usage environment, etc.
If you select 1 3　Help in the Main Menu, you will see the following menu:

```
---Help---
 1 Version Information
```

In addition, if you select "About 1", you will see the following menu:

```
---Version Information---
 1 PowerAttendant Information
 2 Connected UPS Information
 3 PC Information
```

Number	Item Name	Configuration details
1	PowerAttendant Information	Displays information about the Software you have installed.
2	Connected UPS Information	Displays information about the connected UPS.
3	PC Information	Displays information about the computer on which the Software is installed.

PowerAttendant Information

Displays information about the Software you have installed.

```
----PowerAttendant Information----
Version Number : Standard Edition 2.3.0
Release Date : 2026/10/19
License : C:¥Program Files¥OMRON¥PowerAttendant¥licenses.txt
```

Item Name	Display content
Version Number	Versions of the Software.
Release Date	Software release date.
License	The location of the file containing information about the open source used in the software is displayed.

Connected UPS Information

Displays information about the connected UPS.

```
---Connected UPS Information---
Model:S8BA-24D24D240LF
Firmware Version:M:1.90 (S:-.--)
Product Serial Number:1234567890ABCDEF
```

Item Name	Display content
Model	The type of UPS you are connecting.
Firmware Version	The firmware version of the UPS you are connected to.
Product Serial Number	The serial number of the UPS you are connected to.

PC Information

Displays information about the computer on which the Software is installed.

```
--PC 情報---
Hernel Version : Microsoft Windows NT 10.0.19045.0
Host Name : test
.Net Version : 10.0.10
```

Item Name	Display content
Kernel Version	Kernel version. Not the OS version. *The kernel is the software that plays the role of the basic function of OS.
Host Name	Hostname.
.Net Version	It is installed.NET version.

Note: Do not use this document to operate the Unit.

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