

Automatic Shutdown Software

PowerAttendant Basic Edition for Windows Ver.1.1.1

User's Manual

Introduction

This instruction manual contains important information for using this software, so please be sure to read it before using it.

- Please be able to check this instruction manual whenever necessary.
- It is prohibited to copy or reprint part or all of the contents of this instruction manual without permission.
- The contents of this instruction manual are subject to change without notice.
- The screens and illustrations described in this instruction manual are for illustrative purposes only. It may differ from the actual situation.

Registered Trademarks

- "PowerAttendant" is a registered trademark of OMRON Corporation.
- Windows is a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- Other company names and product names are trademarks or registered trademarks of their respective companies.

Affected products

- This instruction manual applies to the following products.
 - PowerAttendant Basic Edition

Target Audience

- This instruction manual is intended for the following people.
 - Knowledge of using Windows software and responsible for UPS implementation and operation

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Precautions for Correct Use

< Purpose of use of this software >

This software is designed and manufactured for use in office automation equipment such as computers. Do not use it for equipment or applications that require extremely high reliability and safety, such as:

- Medical devices and systems that directly affect human life
- Applications that may result in personal injury. (Applications directly related to the operation, operation, control, etc. of aircraft, ships, railways, elevators, etc.)
- Applications where vibration may be applied at all times, such as in vehicles and ships
- Applications that may cause significant social or public damage or impact if they fail.
(Major computer systems, trunk line communication equipment, public transportation systems, etc.)
- Equipment and applications equivalent to these

< Use of the Software>

Please use this software in a safe environment where external security measures are taken, such as being protected by a firewall.

< SOFTWARE LICENSE AGREEMENT >

To download, install or use this software, you must agree to the following Software License Agreement. If you do not agree, please do not download, install or use this software.

Software License Agreement

This Software License Agreement ("Agreement") is a binding agreement between OMRON SOCIAL SOLUTIONS CO.,LTD. ("OMRON") and you (the "User") on the terms and conditions of the license of the Software (as defined below). To download, install or use this Software, you must agree to this Agreement.

1 For the purpose of this Agreement, the following terms have the following meanings.

1.1 The "Authorized Computers" means the one or more computers those are owned by the User and are provided with power from one OMRON's UPS.

1.2 The "End User(s)" means any end user of the User's Products which incorporates the OMRON's UPS and the Software

1.3 The "OMRON's UPS" means Uninterruptible Power Supply sold by OMRON either directly or through the OMRON's normal distribution channels to the User or End User.

1.4 The "Computer" means to one or more computers owned by a Customer or End User and powered by one OMRON's UPS.

1.5 The "Software" means the computer program "PowerAttendant Basic Edition" and any and all related documentation that are distributed with such computer program.

2 OMRON grants to the User a non-exclusive, non-transferable and limited license as follows: (i) to make one (1) or more copies of the Software and use such copies thereof on the Authorized Computers only for the purpose of monitoring and managing OMRON's UPS ; (ii) to make one of more copies of the Software in object code form only and distribute such copies thereof, either directly or through the User's normal distribution channels, to End User(s), as part of the User's Product which incorporates the OMRON's UPS and the Software, only for the purpose of monitoring and managing such OMRON's UPS on the Authorized Computers; (iii) make copies of the Software in object code form as part of a master hard disk drive (including a hard disk drive image) for cloning the hard disk drive, only for the purpose of the distribution as mentioned (ii) above; and (iv) make one copy of the Software only for backup purpose.

3 Copyright of the Software remains the sole property of OMRON or the third party who has licensed the Software to OMRON and shall not be assigned to the User under this Agreement. Except as expressly permitted in Section 2 of this Agreement, the User shall not (i) copy or alter the Software; (ii) sub-license, assign nor lease the Software to any third party without prior written consent of OMRON; (iii) de-compile, reverse engineer nor otherwise attempt to discern the source code of the Software; or (iv) any and all acts against Foreign Exchange and Foreign Trade Act and any other applicable export control laws and regulations.

4 The User shall treat any information contained in the Software as confidential and shall not disclose it to any third party.

5 If the User finds substantial non-conformity with the manual on the Software and notice it to OMRON in writing within a period of ninety (90) days after the User's purchase of the Software or installation of the Software, whichever comes earlier, OMRON will replace that Software or correct such non-conformity at OMRON's expense, to the extent that such non-conformity is reproducible and reported by User in writing during such period.

The User acknowledges that all errors or bugs of the Software may not be removed by such replacement or correction.

OMRON may, in its sole discretion, refund the amount paid by User for User's purchase of that Software to User instead of such replacement or correction, in which case this Agreement will terminate.

Notwithstanding the above, the remedy mentioned above shall not apply to any non-conformity resulting from the User's and/or third party's misuse, abuse or improper use of OMRON's UPS, the Software and/or the computer or failure to follow operating instructions, or use with equipment with which it is not intended to be used.

In addition, notwithstanding the first paragraph of this section, if User obtains the Software by means of a software recording medium included in the package of OMRON's UPS or the free download service on the web site of OMRON, the Software is provided on "as-is" basis and such paragraph shall not apply.

6 THE ABOVE REPLACEMENT OR CORRECTION, OR REFUND SHALL CONSTITUTE THE USER'S SOLE AND EXCLUSIVE REMEDIES AGAINST OMRON AND THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

IN NO EVENT, OMRON WILL BE LIABLE FOR ANY LOST PROFITS OR OTHER INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THIS AGREEMENT OR USE OF THE SOFTWARE.

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8 If the User will modify, de-compile, reserve engineer, or otherwise attempt to discern the source code of the Software, OMRON shall have no liability for any claim of patent, utility model right, trade secret or copyright infringement whenever the User was claimed by the third party who consented OMRON to use the Software or by the other third party.

9 In any event, OMRON's entire liability to the User for any cause shall not exceed the amount actually paid by the User to purchase the OMRON's UPS which is monitored and managed by the Software or the amount actually paid by the User to purchase license(s) of the Software, whichever is lower.

10 If the User breaches this Agreement, OMRON may terminate this Agreement upon notice to the User. In that event, the User shall return the Software and all copies thereof.

11 This Agreement shall be governed by and construed under the laws of Japan.

12 If the User is a person living in Japan or a corporation organized and existing under the laws of Japan, any dispute, controversy or difference which may arise between the parties hereto arising out of or in relation to or in connection with this Agreement shall be solely resolved through a legal proceedings before the District Court of Tokyo, which shall have the exclusive jurisdiction over the dispute.

In other cases, any and all dispute, controversy or difference which may arise between the parties hereto out of or in relation to or in connection with this Agreement shall be finally settled by arbitration in Tokyo in accordance with the Arbitration Rules of the Japan Commercial Arbitration Association. The award rendered by arbitrator(s) shall be final binding upon the parties hereto.

13 This English version of this Agreement is prepared for reference purpose only. In the event of any conflict or inconsistency between the Japanese version and this English version, the Japanese version shall prevail.

How to read the instruction manual

What is described in this instruction manual

It provides an overview of the software's functions, how to operate it, how to set it up, and how to connect it to an uninterruptible power supply (UPS).

For instructions on the UPS itself, refer to the instruction manual of each UPS.

About the mark



request
Indicates that the software should be implemented or avoided in advance in order to prevent inoperability, malfunction, or adverse effects on the performance or functionality of the software.



reference
This is an item that you should read as needed. It explains useful information to know and what to use as a reference.

About notation

In this instruction manual, the items and buttons on the software screen are described as follows.

「 」An item displayed on the screen that represents the screen name or setting value.
Example: "Shutdown Parameters" tab

[] buttonAn item displayed on the screen that represents the object to be operated (buttons that can be clicked).

Example: [Next] button

Software 「Power Attendant Basic Edition」It refers to.

Terminology

In this instruction manual, the following terms are used except where otherwise noted.

term	explanation
UPS	An uninterruptible power supply. In the event of an abnormality in the commercial power supply, this device provides a stable supply of power to connected devices.
Connected devices	A device that is connected to a UPS and receives power from the UPS battery in the event of a power outage.
Utility Power	It is the power transmitted from the electric power company.
AC Input	It is the power supplied to the UPS from the utility power supply.
Commercial operation, commercial mode	This is an operating state in which power is supplied to the UPS from the utility power supply, and power is supplied from the UPS to the connected devices.
Back-up operation, Battery Mode	This is an operating state in which an abnormality occurs in the AC input and power is supplied from the UPS battery to the connected devices.
GUI	Graphical User Interface. A screen that can be visually operated using the mouse.

Operating environment

The operating environment of this software is as follows.

■ Supported OS

Windows Server 2025
Windows Server 2022
Windows Server 2019
Windows Server 2016
Windows 11
Windows 10

■ Supported UPS

S8BA-24D24D120LF
S8BA-24D24D240LF
S8BA-24D24D360LF
S8BA-24D24D480LF
S8BA-24D24D480SBF
S8BA-24D24D960SBF

■ Connection Interfaces

Connection with UPS : USB / RS-232C

1. Functional Overview

PowerAttendant Basic Edition (hereinafter referred to as "this software") can perform an automatic shutdown function.

The automatic shutdown function constantly monitors the status of the uninterruptible power supply (UPS) connected to the computer, and in the event of an input power failure (such as a power outage), the computer is shut down normally to prevent damage to the OS and hard disk.

1-1 Key features

This section describes the main functions of this software.

(1) Automatic shutdown in case of input power failure

In the event of an input power failure (such as a power outage), the computer shuts down normally according to the preset settings.

(2) External command execution

Executes the external command set at the start of the shutdown.

(3) Logs

We record an "Event Log" that records events that occur on the UPS or the Software, and a "Data Log" that records the status of the UPS.

2. Connecting to a Computer

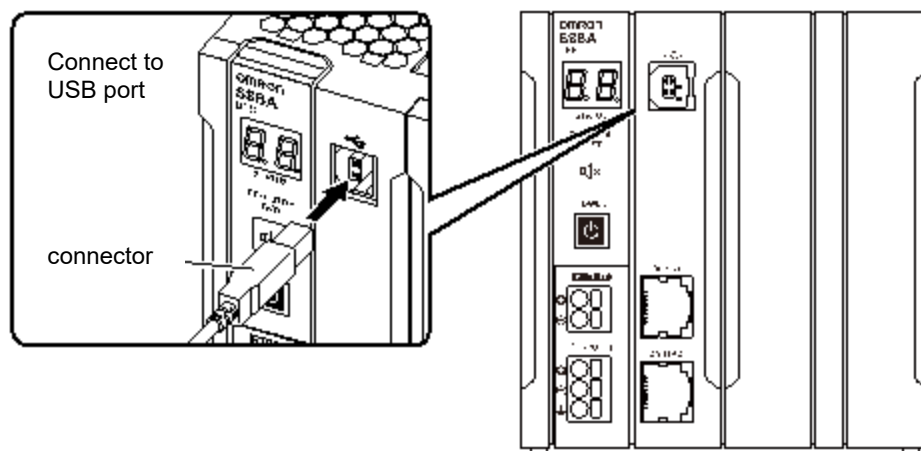
Connect the computer to the UPS with a USB cable or RS232C cable.

2-1 USB connection

Connect the computer to the UPS with a USB cable.

1. Turn off the computer.
2. Connect the UPS to the computer with the included USB cable.

(Connection example: for model S8BA-24D24D120LF)



3. Turn on the UPS → computer in that order.

 reference

The USB cable can be plugged in after the computer has booted up.

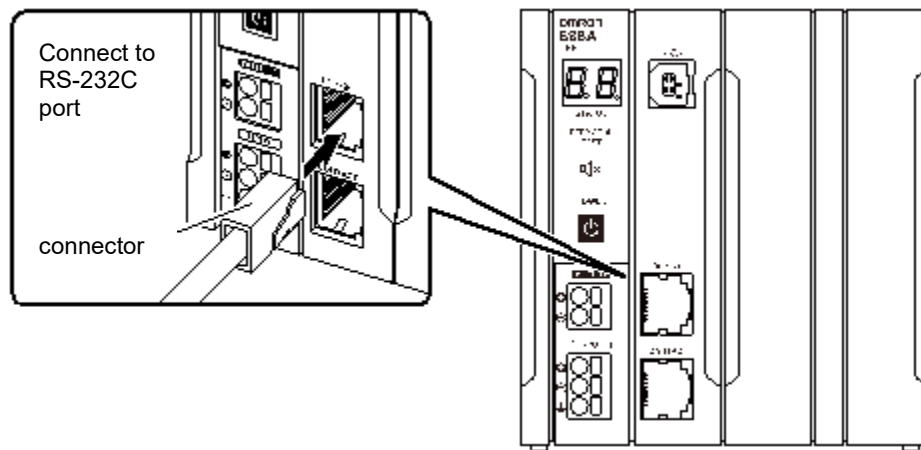
2-2 RS-232C connection

Connect the computer to the UPS with an RS-232C cable.



Please use a dedicated RS232C cable (model: S8BW-C01).

- 1.** Turn off the computer.
- 2.** Connect the UPS to the computer with the optional "S8BW-C01".
(Connection example: for model S8BA-24D24D120LF)



- 3.** Turn on the UPS → computer in that order.

3. Install

3-1 Install Procedure

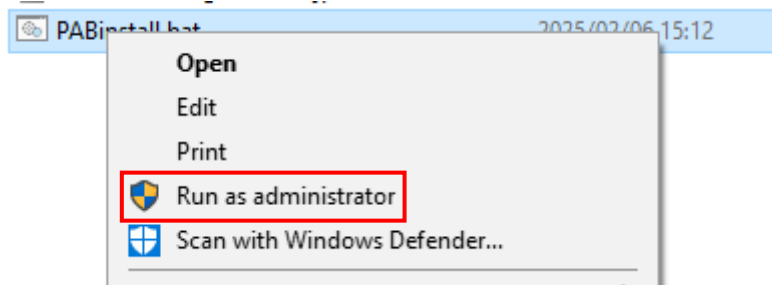
This section describes how to install this software.

3-1-1 Before you install

- This software can only be used with OMRON UPS.
- If you are using other automatic shutdown software, be sure to uninstall the software and restart the OS before installing this software.
For details on how to uninstall each software, refer to the respective instruction manual.
- Before installing this software, connect to a UPS.
- Log in to the computer with a user name that has Administrator privileges.
- Close other applications that are running.
- When upgrading to a new version of this software (overwriting installation) in an environment where the software is already installed, the configuration settings are preserved.
After the upgrade, the software will launch using the configuration settings from before the upgrade.

3-1-2 Installing the Software

1. Unzip the software downloaded from our website to a folder of your choice.
2. Right-click "PABinstall.bat" in the unzipped folder and select "Run as administrator".



3. The command prompt will start and the following screen will be displayed, so select the language to use for this software. Select "J" for Japanese and "E" for English.

Japanese or English?(J/E):

4. The following screen will be displayed, so press some key.

Show the software license agreement.
Press any key to continue . . . ■

5. The End User License Agreement for this software is displayed. If you agree, enter Y.

12 If the User is a person living in Japan or a corporation organized and existing under the laws of Japan, any controversy or difference which may arise between the parties hereto arising out of or in connection with this Agreement shall be solely resolved through a legal proceedings before the District Court of Tokyo. In other cases, any and all dispute, controversy or difference which may arise between the parties hereto in relation to or in connection with this Agreement shall be finally settled by arbitration in accordance with the Arbitration Rules of the Japan Commercial Arbitration Association. The award rendered by the arbitrator shall be final and binding upon the parties hereto.

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Do you agree this license? (Y/N): ■

If you enter "N", it will end here and the software will not be installed.

6. Start the installation. When "Successful Finish" is displayed, the installation is complete.

```
----PowerAttendant Basic Edition Version:1.1.1----  
Install Start  
  
----PowerAttendant Basic Edition Version:1.1.1----  
SUCCESS  
  
Installed in "C:\Program Files\OMRON\PowerAttendantBasic".  
Press any key to continue . . .
```

7. When this software is installed, a shortcut icon for [PowerAttendantBasic] is created on the desktop.



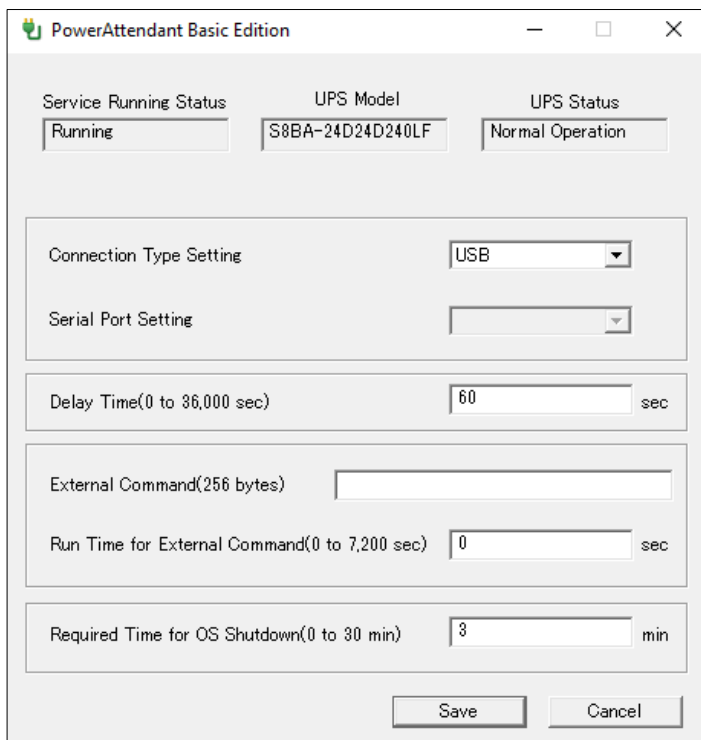
4. Screens and Controls

4-1 Startup of the screen

There are two types of screens for configuring this software: the GUI setting screen and the console setting screen.

① GUI setting screen

Click the "Power Attendant Basic" shortcut icon on the desktop.
The following screen will be displayed.



 reference

- Depending on your computer environment, a shortcut icon for [PowerAttendantBasic] may not be created on the desktop.

In this case, you can start the GUI setting screen by executing C:\Program Files\OMRON\PowerAttendantBasic\PowerAttendantBasicEdition_desktop.exe.

② Console setting screen

Run C:\Program Files\OMRON\PowerAttendantBasic\ PABsetting.bat. The following screen will be displayed.

```
----PowerAttendant Basic Edition Version:1.1.1----
 1:View Status
 2:View Setting Items
 3:Setting Connecting Device
 4:Setting Delay Time
 5:Setting External Command
 6:Setting Run Time for External Command
 7:Setting Required Time for OS Shutdown





Please select a menu number. [0:exit]
>
```

4- 2 Task Tray Icons

The Windows task tray icon displays the following statuses.

Task tray icon display



Icon display	What is displayed?	explanation
	Normal during commercial operation	The UPS is operating normally.
	Service outage	This software has stopped working.
	During backup operation	The UPS is in backup operation (battery output) due to input power failure.
	Communication Errors	There is a communication error between the UPS and this software.

5. Screen description

This section describes the screen on which you can configure the settings of this software.

5-1 GUI setting screen

PowerAttendant Basic Edition

① Service Running Status: Running

② UPS Model: S8BA-24D24D240LF

③ UPS Status: Normal Operation

④ Connection Type Setting: USB

⑤ Serial Port Setting: AUTO

⑥ Delay Time(0 to 36,000 sec): 60 sec

⑦ External Command(256 bytes):

⑧ Run Time for External Command(0 to 7,200 sec): 0 sec

⑨ Required Time for OS Shutdown(0 to 30 min): 3 min

Save Cancel

Graphic number	Item Name	explanation
①	Service Health	Displays the operating status of this software. "Running": The software is running. "Stopped": The software is being stopped.
②	UPS Model	If a UPS is connected, displays the model of the connected UPS. If the UPS is not connected, "Not connected" will be displayed.
③	Driving condition	If a UPS is connected, the operating status of the connected UPS is displayed. "Normal operation": Operation on utility power. "Running on battery": Running on battery.
④	Communication port settings	Set the port to which the UPS is connected. "USB": Select to connect via USB. "COM": Select to connect via RS-232C.
⑤	COM port settings	Specify the COM port for connecting to the UPS via RS-232C. Select "AUTO" to automatically search for and set the COM port. If you want to specify the COM port manually, select a COM port other than "AUTO" displayed in the pull-down list.
⑥	Standby time	Sets the waiting time before starting shutdown after an input power failure. If the UPS detects an input power failure, it will not initiate a shutdown operation until the wait time set here has elapsed.
⑦	External Commands	After the wait time has elapsed, execute the external command that was set before the shutdown started. Enter the external command you want to execute. Be sure to set it with the full path. Example: C:\work\test.bat When using this function, be sure to set the external command execution time.
⑧	External Commands Execution time	Sets the amount of time required to execute an external command. When this time has elapsed, shutdown will start, so set the time when the configured external command can be completed.

Graphic number	Item Name	explanation
⑨	In Shutdown Time Needed	Select the amount of time you need before shutting down the operating system and shutting down the UPS. Set this time to be equal to or greater than the sum of the time required to execute the external command and the time required to shut down the OS.

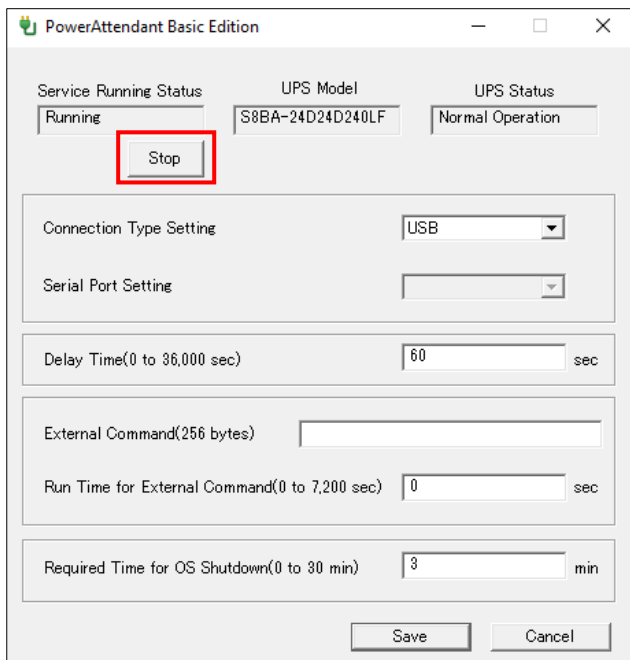
When you are done with the settings, click the [Settings] button to save the settings.

When connected to the UPS via USB, if this software is running, the UPS is automatically recognized and communication with the UPS is started.

When connected via RS-232C, if this software is running, click the [Setting] button to start communication with the UPS using the port set in "(5) COM Port Settings".

 reference

C:\Program Files\OMRON\PowerAttendantBasic\PowerAttendantBasicEdition_desktop.exe Right-click and select "Run as administrator" and you will see a Stop button on your screen. You can stop the execution of this software by clicking the [Stop] button. When you stop, the button will be displayed as [Start]. Click the [Start] button to start running this software.



5-2 Console setting screen

```

----PowerAttendant Basic Edition Version:1.1.1----
1:View Status
2:View Setting Items
3:Setting Connecting Device
4:Setting Delay Time
5:Setting External Command
6:Setting Run Time for External Command
7:Setting Required Time for OS Shutdown

Please select a menu number. [0:exit]
>

```

num ber	Item Name	explanation
1	Indication of health status	<p>Displays the operating status of this software.</p> <pre> Please select a menu number. [0:exit] >1 ----PowerAttendant Basic Edition Version:1.1.1---- Service Running Status:Running UPS Model:S8BA-24D24D240LF UPS Status:Normal Operation Press any key... </pre>
2	Displaying settings	<p>Displays the current settings.</p> <pre> Please select a menu number. [0:exit] >2 ----PowerAttendant Basic Edition Version:1.1.1---- Connection Type :USB Delay Time(sec) :60 External Command : Run Time for External Command(sec):0 Required Time for OS Shutdown(min):3 Press any key... </pre>
3	Connected Devices Configuring	<p>Configure the settings for connecting to the UPS. If you want to connect via USB, select "USB". When connecting via RS-232C, select "COM_AUTO" to automatically set the COM port Search for and configure. If you manually specify the COM port, it will appear in the list. Select the COM port that you have.</p> <pre> Please select a menu number. [0:exit] >3 ----PowerAttendant Basic Edition Version:1.1.1---- 0:USB 1:COM_AUTO 2:COM1 Select the number of the Device [ESC:Cancel] > </pre>

num ber	Item Name	explanation
4	Setting the Wait Time	<p>Sets the waiting time before starting shutdown after an input power failure. If the UPS detects an input power failure, it will not initiate a shutdown operation until the wait time set here has elapsed.</p> <pre> Please select a menu number. [0:exit] >4 ----PowerAttendant Basic Edition Version:1.1.1---- Set the value of Delay Time (0 sec to 36,000 sec) [ESC:Cancel] > </pre>
5	External Commands Configuring	<p>After the wait time has elapsed, execute the external command that was set before the shutdown started. Enter the external command you want to execute. Be sure to set it with the full path. Example: C:\work\test.bat When using this function, be sure to set the external command execution time.</p> <pre> Please select a menu number. [0:exit] >5 ----PowerAttendant Basic Edition Version:1.1.1---- Set the External Command (within 256 bytes). > </pre>
6	External Commands Setting the time	<p>Sets the amount of time required to execute an external command. When this time has elapsed, shutdown will start, so set the time when the configured external command can be completed.</p> <pre> Please select a menu number. [0:exit] >6 ----PowerAttendant Basic Edition Version:1.1.1---- Set the Run Time for External Command (0 sec to 7200 sec). [ESC:Cancel] > </pre>
7	Setting the Time Required for Shutdown	<p>Select the amount of time you need before shutting down the operating system and shutting down the UPS. Set this time to be equal to or greater than the sum of the time required to execute the external command and the time required to shut down the OS.</p> <pre> Please select a menu number. [0:exit] >7 ----PowerAttendant Basic Edition Version:1.1.1---- Set the Required Time for OS Shutdown (0 min to 30 min). [ESC:Cancel] > </pre>
0	end	Exit the settings screen.

6. log

This software can record "event logs" and "data logs".

6-1 Event log

Record events that occur on the UPS or the Software.

The event log is stored as a csv file in the C:\Program Files\OMRON\PowerAttendantBasic\EventLog folder. It is stored.

[Example of event log]

①	2024/9/5	②	17:22:12	③	Install:OK
	2024/9/5		17:22:12		Start of service
	2024/9/5		17:24:54		UPS Connected: S8BA-24D24D240LF

num ber	Item Name	explanation
①	date	The date, month, and day when the event occurred.
②	time	The time at which the event occurred.
③	detail	The nature of the event that occurred.

6-2 Data logging

Record the status of the UPS. The data log is saved as a csv file in the C:\Program Files\OMRON\PowerAttendantBasic\DataLog folder.

[Example of data log]

①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
date	time	Input voltage	Input Frequenc y	Output voltage	Output frequenc y	Battery Voltage	Connectio n Capacity	Internal temperatur e	Battery Capacity
2024/9/ 5	17:24:5 5	105.4	---	0	---	27.7	0	23.6	96
2024/9/ 5	17:25:5 6	105.8	---	0	---	27.8	0	23.6	96

num ber	Item Name	explanation
①	date	The date on which the UPS status was acquired.
②	time	The time at which the UPS status was retrieved.
③	Input voltage	Input Voltage (V)
④	Input Frequency	Input frequency (Hz) If the input power is DC, "---" is displayed.
⑤	Output voltage	Output voltage (V)
⑥	Output frequency	Output frequency (Hz) If the output power is DC, "---" is displayed.
⑦	Battery Voltage	Battery Voltage (V)
⑧	Connection Capacity	Capacity of the load connected to the UPS (%)
⑨	Internal temperature	UPS Internal Temperature (°C)
⑩	Battery Capacity	Battery Capacity (%)

7. uninstall

This section describes the procedure for uninstalling this software.



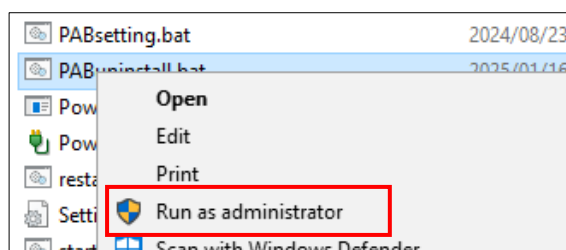
If you use other shutdown software, be sure to uninstall this software.
If this software is still installed, the UPS may not be recognized properly.

7-1 Before uninstalling

- Log in to the computer with a user name that has Administrator privileges.
- Close other applications that are running.

7-2 Uninstall the Software

1. Right-click PABuninstall.bat in the C:\Program Files\OMRON\PowerAttendantBasic folder and choose Run as administrator.



2. The command prompt will start, and the following screen will be displayed to start uninstalling.
When "Uninstall completed." is displayed, the uninstall is complete. Press any key.

```
----PowerAttendant Basic Edition Version:1.1.1----  
uninstallStart  
  
----PowerAttendant Basic Edition Version:1.1.1----  
SUCCESS  
  
アンインストールが完了しました。  
Uninstall completed.  
続行するには何かキーを押してください . . .
```



Files in the installation folder (C:\Program Files\OMRON\PowerAttendantBasic) will not be deleted.
You can leave it as it is, but if you do not need it, delete the installation folder and all files contained in the installation folder after uninstalling.

■ Event List

level	Type	Event Information
information	system	Service Start
	system	Service Stop
	system	External command start: (<i>command name</i>)
	UPS	UPS Testing
	UPS	UPS Test Finished
	UPS	Power Recovery
	UPS	UPS Connected: (<i>Model Name</i>)
	UPS	Battery Fault Event Recovery
	UPS	Battery Connected
	UPS	Battery OverCharge Event Recovery
	UPS	Battery UnderCharge Event Recovery
	UPS	BatteryPacket Misconnection Event Recovery
	UPS	UPS Fault Detect Event Recovery
	UPS	Overload Event Recovery
	UPS	Output Voltage Over Event Recovery
	UPS	Output Voltage Low Event Recovery
	UPS	DC Bus Voltage Abnormal Event Recovery
	UPS	Output Short Abnormal Event Recovery
	UPS	Over Temperature Event occurred
	UPS	BMS Over Current Event Recovery
	UPS	BMS Internal Error Event Recovery
	UPS	Charger Fail Event Recovery
	UPS	BMS Cell Over Voltage Event Recovery
	UPS	BMS Cell Under Voltage Event Recovery
	UPS	Transformer Abnormal Event Recovery
	UPS	Fan Abnormal Event Recovery
	UPS	Battery Replaced
warning	system	OS Shutdown Is Started
	UPS	UPS Disconnected
	UPS	Power Failure
	UPS	Battery Low Event occurred
	UPS	Battery Replace Warning Event occurred, Battery needs to be replaced
error	UPS	Battery Fault Event detected
	UPS	Battery Disconnect Event detected
	UPS	Battery OverCharge Event occurred
	UPS	Battery UnderCharge Event occurred
	UPS	BatteryPacket Misconnection Event occurred
	UPS	UPS Fault Detect Event detected
	UPS	Overload Event occurred
	UPS	Output Voltage Over Event occurred
	UPS	Output Voltage Low Event occurred
	UPS	DC Bus Voltage Abnormal Event occurred
	UPS	Output Short Abnormal Event occurred
	UPS	Over Temperature Event occurred
	UPS	BMS Over Current Event occurred
	UPS	BMS Internal Error Event occurred
	UPS	Charger Fail Event occurred
	UPS	BMS Cell Over Voltage Event occurred
	UPS	BMS Cell Under Voltage Event occurred
	UPS	Transformer Abnormal Event occurred
	UPS	Fan Abnormal occurred

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OMRON Corporation