Symmetra™ MW

800–1600 kW 380/400/480 V

Operation

UPS System with External Bypass
01/2017
The Schneider Electric brand and any registered trademarks of Schneider Electric Industries SAS referred to in this guide are the sole property of Schneider Electric SA and its subsidiaries. They may not be used for any purpose without the owner's permission, given in writing. This guide and its content are protected, within the meaning of the French intellectual property code (Code de la propriété intellectuelle français, referred to hereafter as "the Code"), under the laws of copyright covering texts, drawings and models, as well as by trademark law. You agree not to reproduce, other than for your own personal, noncommercial use as defined in the Code, all or part of this guide on any medium whatsoever without Schneider Electric's permission, given in writing. You also agree not to establish any hypertext links to this guide or its content. Schneider Electric does not grant any right or license for the personal and noncommercial use of the guide or its content, except for a non-exclusive license to consult it on an "as is" basis, at your own risk. All other rights are reserved.

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this publication.
# Table of Contents

Important Safety Instructions — SAVE THESE INSTRUCTIONS ................................................................. 5
   Electromagnetic Compatibility .......................................................... 6
   FCC Statement .................................................................................. 6
   Safety Precautions ........................................................................... 6

System Overview .................................................................................... 7
   Breakers in the System ....................................................................... 7
   Display Overview ................................................................................. 7
   Menu Tree ........................................................................................... 8
   External Bypass Menu Tree ................................................................. 9

Configuration ........................................................................................... 10
   Change the User Password ................................................................. 10
   Configure the Touch-Screen Settings ............................................... 10
   Configure the Modbus Settings ......................................................... 11
   Configure the Regional Settings ....................................................... 12
   Configure the Network Configurations ........................................... 12
   Configure the Display ................................................................. 17
   Configure the Battery Test Settings ............................................ 17

Operation ................................................................................................. 19
   Operation Modes ............................................................................... 19
      Normal Operation ........................................................................... 19
      Battery Operation ......................................................................... 20
      Static Bypass Operation ............................................................... 21
      Manual Bypass Operation .......................................................... 22
      Efficiency Boost Mode ............................................................... 23
   Operation Procedures ................................................................. 24
      Access the Summary Screens from the UPS ............................ 24
      Access the Summary Screens from the External Bypass ........... 25
      Access Screens Protected by User Password ............................. 25
      Transfer the System from Normal to Manual Bypass Operation .... 26
      Start Up the System from Manual Bypass Operation ................ 27
      Transfer the System from Normal to Static Bypass Operation ........ 27
      Transfer the System from Static Bypass to Normal Operation .......... 28
      Start a Web-Based Remote Session ........................................... 28

Maintenance ............................................................................................ 30
   Access the Predictive Maintenance Screens .................................. 30
   Access Fan Status Screens .............................................................. 31
   Replace the Air Filters ..................................................................... 32

Troubleshooting ....................................................................................... 34
   Alarm Levels .................................................................................... 34
   View Active Alarms ......................................................................... 34
   View the Event Log ......................................................................... 34
Important Safety Instructions — SAVE THESE INSTRUCTIONS

Read these instructions carefully and look at the equipment to become familiar with it before trying to install, operate, service or maintain it. The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a “Danger” or “Warning” safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

**DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.

Failure to follow these instructions will result in death or serious injury.

**WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

**CAUTION**

**CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Failure to follow these instructions can result in injury or equipment damage.

**NOTICE**

**NOTICE** is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.

Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.
A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Electromagnetic Compatibility

<table>
<thead>
<tr>
<th>NOTICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RISK OF ELECTROMAGNETIC DISTURBANCE</td>
</tr>
</tbody>
</table>
| This is a product Category C3 according to IEC 62040-2. This is a product for commercial and industrial applications in the second environment - installation restrictions or additional measures may be needed to prevent disturbances. The second environment includes all commercial, light industry, and industrial locations other than residential, commercial, and light industrial premises directly connected without intermediate transformer to a public low-voltage mains supply. The installation and cabling must follow the electromagnetic compatibility rules, e.g.:

- the segregation of cables,
- the use of shielded or special cables when relevant,
- the use of grounded metallic cable tray and supports.

Failure to follow these instructions can result in equipment damage.

FCC Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Safety Precautions

⚠️ DANGER

HAZARD OF ELECTRICAL SHOCK, EXPLOSION OR ARC FLASH

All safety instructions in this document must be read, understood and followed.

Failure to follow these instructions will result in death or serious injury.

⚠️ DANGER

HAZARD OF ELECTRICAL SHOCK, EXPLOSION OR ARC FLASH

After the UPS system has been electrically wired, do not start up the system. Start-up must only be performed by Schneider Electric.

Failure to follow these instructions will result in death or serious injury.
System Overview

Breakers in the System

- Q1: UPS input breaker
- Q2: UPS output breaker
- Q3: Maintenance bypass breaker
- Q4: System output breaker
- Q5: Bypass input breaker
- Q6: Static bypass output breaker (optional)
- Q7: Battery breaker 1
- Q8: Battery breaker 2

**NOTE:** Only operate a breaker when the associated breaker lamp is on.

Display Overview

**Front View of Display**

- **ON** button: Push to turn on the UPS or the external bypass.
- **OFF** button: Push to turn off the UPS or the external bypass.
- **EMO** (Emergency Module OFF) button: Push to trip all breakers, disabling AC and DC input and output in this section. This will remove the output from this section.

**NOTE:** To be used in emergency situations only.
External Bypass Menu Tree

Bypass Parallel System

- Bypass Summary
- Operation
  - View Event Log
  - Fan Status
  - User Configuration

- Password Settings
- Touch-Screen Settings
- Modbus Settings
- Regional Settings
- Network Configuration
- Display Settings
Configuration

Change the User Password

1. From the home screen on the display select **Operation > User Configuration > Password Settings** screen to access the Password Settings screen.

2. Change the user password:
   a. Tap the **Enter current password** field and type the current password by using the keyboard on the screen. Complete with ENTER.
   b. Tap the **Enter new password** field and type the new password by using the keyboard on the screen. Complete with ENTER.
   c. Tap the **Re-enter new password** field and re-type the new password by using the keyboard on the screen. Complete with ENTER.

3. Tap **Apply Changes** to complete the password change procedure.

Configure the Touch-Screen Settings

**NOTE:** The display can be rebooted by recalibrating the display.

1. From the home screen on the display select **Operation > User Configuration > Touch-Screen Settings** to access the Touch-Screen Settings screen.
2. Change the touch-screen settings:
   a. **Brightness**: Slide the indicator to the left or right to the desired setting.
   b. **Contrast**: Slide the indicator to the left or right to the desired setting.
   c. **Backlight mode**: Select **Always on** or **Off after inactivity**.
      
      **NOTE**: If the backlight mode is set to **Always on** this will reduce the lifetime of the display.
   d. **Backlight timeout (minutes)**: Select the time limit for turning off the screen backlight.
   e. **Recalibrate Display**: Tap this button to initiate the calibration of the screen.

### Configure the Modbus Settings

The **Modbus Settings** screen allows monitoring of the UPS by a Building Management System (BMS).

1. From the home screen on the display select **Operation > User Configuration > Modbus Settings** to access the **Modbus Settings** screen.

![Modbus Settings Screen](image)

2. Change the modbus settings:
   a. **BMS modbus RTU address**: The modbus address of the UPS device.
   b. **Baud rate**: Select 9600, 19200, 38400, 57600, or 115200.
   c. **Parity**: Select **None**, **Odd**, or **Even**.
3. Tap **Apply Changes** to complete the changes.

---

1. This setting is not available on all display versions.
Configure the Regional Settings

1. From the home screen on the display select **Operation > User Configuration > Regional Settings** to access the **Regional Settings** screen.

2. Change the regional settings:
   a. **Temperature unit**: Select **Celsius** or **Fahrenheit**.
   b. **Date format**: Select the preferred date format.
   c. **Language**: Select **English** or **Chinese (simplified)**.

3. Tap **Apply Changes** to complete the changes.

Configure the Network Configurations

All network settings information must be provided before any network functions can be used.

1. From the home screen on the display select **Operation > User Configuration > Network Configuration** to access the **Network Configuration** screens.
2. Configure the network settings:
   a. **Enable network**: Select this checkbox to connect or disconnect the UPS from the network.
   b. **IP address**: The static IP address.
   c. **Subnet mask**: The subnet mask for the network segment containing the UPS.
   d. **Gateway**: The network gateway for the segment containing the UPS.
   e. **Primary DNS server**: The IP address of the DNS server to be used by the UPS (optional).
   f. **Secondary DNS server**: The IP address of a backup DNS server if the primary server is not available (optional).
   g. **Host name**: The network host name for the system. This uniquely identifies the system on the network. Standard letters (a-z and A-Z), digits (1-9), and hyphen (-) can be used.
   h. **Domain name**: The DNS network domain containing the UPS. Standard letters (a-z and A-Z), digits (1-9), and hyphen (-) can be used.
   i. **From address**: The source address used when sending e-mails.
   j. **SMTP server**: The SMTP server responsible for sending e-mails.
   k. Tap **Apply Changes** to complete the changes and select arrow down to go to the next Network Configuration screen.

   **NOTE**: The display will have to be rebooted for the changes to the domain name or DNS servers to take effect.

3. Configure the E-mail Settings:
   a. To add a new e-mail recipient, tap **Add New**, type in the e-mail address and specify the minimum severity of the alarms. All entries will appear in red until **Apply Changes** is tapped.
   b. **Enable E-mail**: Select this checkbox to enable the e-mail notifications.
   c. To edit or delete an e-mail recipient, select the recipient from the recipient list, and then choose to either update or delete it.
   d. **Apply Changes**: Tap this button when all changes have been made. Entries will appear in red until this button is tapped.
   e. **Send Test E-mail**: Tap this button to send a test e-mail to all configured e-mail recipients. This button can be used to validate the e-mail settings.
   f. Tap arrow down to go to the next Network Configuration screen.
4. Configure the **SNMP Settings**. The UPS can be set to send SNMP traps if UPS alarm conditions occur, and when the conditions return to normal. Each trap contains a description of the alarm condition. Up to 10 trap receivers can be entered. The trap receiver must have the APC PowerNet MIB (version 3.6.1 or later). The latest version of the PowerNet MIB can be downloaded from www.apc.com.

   ![SNMP Settings](image)

   **a.** To add a new trap receiver, tap the **Add New** button, type in the address and specify the minimum severity of alarm. All entries will appear in red until **Apply Changes** is tapped.

   **b.** **Enable SNMP**: Select this checkbox to enable the SNMP functionality.

   **c.** To edit or delete a trap receiver, select the recipient from the recipient list, and update or delete it.

   **d.** **Apply Changes**: Tap this button when all changes have been made. Entries will appear in red until this button has been tapped.

   **e.** **Send Test SNMP**: Tap this button to send a test trap to all configured trap receivers. This button can be used to validate SNMP settings.

   **f.** Tap arrow down to go to the next **Network Configuration** screen.
5. Configure the **Remote Monitoring Service Settings**. The remote monitoring service (RMS) monitors your network-critical physical infrastructure (NCPI) from a remote 24 x 7 operation center, responding to events according to a predefined escalation procedure. Go to [http://rms.apc.com](http://rms.apc.com) to learn more about this service. The remote monitoring service uses the HTTP protocol to post information to its database. If a proxy server is used for internet connection, the required proxy server port settings must be specified (a proxy server acts as an agent between a workstation user or other network device and the internet to regulate security, administrative control, and caching).

**NOTE:** The RMS will not be activated until the RMS team has been contacted. The contact details can be found at [http://rms.apc.com](http://rms.apc.com).

a. **Enable RMS**: Select this checkbox to enable the service. Once selected, information about your UPS will periodically be sent to Schneider Electric’s remote monitoring service.

b. **Use Proxy**: Select this checkbox if the internet connection method uses a HTTP proxy server to connect to the internet.

c. **Proxy server address**: Enter the fully qualified IP-address or fully qualified domain name of the proxy server. If you do not know the server address or port number, contact your network administrator.

d. **Proxy server port**: Enter the port number of the proxy server.

e. **Use authentication**: Select this checkbox if the proxy server requires a login. Then specify a **Proxy server login** (user name) and a **Proxy server password**.

f. Tap **Apply Changes** to complete the changes and tap arrow down to go to the next **Network Configuration** screen.
6. Configure the **StruxureWare Data Center Expert**: 

   ![Network Configuration](image)

   - **Enable StruxureWare discovery**: Select this checkbox to enable the StruxureWare Data Center Expert to discover your Symmetra MW.
   
   - **Read/Write Community name**: Specify a valid community name. This is automatically set to public. It must match the name set on the StruxureWare device to allow discovery.
   
   - **System name** (optional).
   
   - **System location** (optional).
   
   - **System contact** (optional).
   
   - **FTP User name**: It must match the user name set on the StruxureWare device in order to allow discovery.
   
   - **FTP Password**: It must match the password set on the StruxureWare device in order to allow discovery.
   
   - Tap **Apply Changes** to complete the changes and tap arrow down to go to the next **Network Configuration** screen.

7. Configure the **Remote Display Settings**:

   ![Network Configuration](image)

   - **Enable Remote Display**: Select this checkbox to enable remote display sessions.
   
   - **Remote Display Inactivity Time-out**: Specify the desired time-out period for the remote display settings (5, 10, 15, 30 minutes or **Never**). If **Never** is selected, the remote display session will not time-out automatically but must be manually disconnected.
   
   - Tap **Apply Changes** to complete the changes.
Configure the Display

1. From the home screen on the display select **Operation > User Configuration > Display Settings** to access the **Display Settings** screen.

2. Configure the display settings:
   a. **Enable Q breaker prefix**: Use this checkbox to enable or disable the Q breaker prefix.
   b. **Enable audible alarms**: Use this checkbox to enable or disable the audible alarms.

Configure the Battery Test Settings

**NOTE**: It is not possible to perform battery tests on installations with lithium-ion batteries.

1. From the home screen on the display select **Operation > User Configuration > Battery Test Settings** to access the **Battery Test Settings** screen.
2. Change the battery test settings. Two different battery tests can be performed and the battery monitor can be reset.

- **Battery monitor test**: Set this value to **True** to start an automatic battery monitor test depending on the battery test options configured by the field service engineer.

- **Battery capacity test**: Set this value to **True** to discharge the batteries until a battery low voltage level is reached. This test can only be performed manually. The test is used to cycle the batteries in order to calibrate the backup time with the current load and battery modules installed.

- **Battery monitor reset**: In the event of a weak battery or another incorrect battery condition, tap this button to reset the battery monitor.
Operation

Operation Modes

Normal Operation

During normal operation, the load is supported by the inverters. A single-line diagram will appear on the screen with the green line indicating the power flow from the utility/mains, through the UPS units, and to the load.

Single System with Dual Mains — UPS Summary Screen

Parallel System — UPS Parallel System Screen

Parallel System — UPS Summary Screen
Battery Operation

During battery operation, the load is supported by the inverters. The main inverter is supplied by battery power, ensuring uninterrupted supply to the load. A single-line diagram will appear on the screen with the green line indicating the power flow from the batteries, through the main inverters, and to the load.

Single System with Dual Mains — UPS Summary Screen

Parallel System — UPS Parallel System Screen

Parallel System — UPS Summary Screen
Static Bypass Operation

During static bypass operation, the load is supplied directly by utility/mains power. A single-line diagram will appear on the screen with an orange line indicating the power flow through the bypass to the load.

Single System with Dual Mains — UPS Summary Screen

Parallel System — UPS Parallel System Screen

Parallel System — UPS Summary Screen
During manual bypass operation, the load is supplied directly by utility/mains power. Manual bypass allows the UPS units to be isolated for maintenance purposes. In manual bypass there is no backup from the UPS system to the load. A single-line diagram will appear on the screen with an orange line indicating the power flow from the utility/mains to the load through the Q3 breaker.

Single System with Dual Mains — UPS Summary Screen

Parallel System — UPS Parallel System Screen

Parallel System — UPS Summary Screen
**Efficiency Boost Mode**

**NOTE:** This feature is disabled by default. Contact Schneider Electric if this feature should be enabled on your system.

When Efficiency Boost Mode (EBM) is enabled, the system will put redundant 200 kW power sections in hot standby after the system has been in normal operation for five minutes and the batteries are more than 80% charged.

**NOTE:** Only half of the system’s power sections can be in hot standby.

The hot standby role transfers automatically between power sections on a set schedule to ensure equal conditions for the power sections.

**Single System with Dual Mains — UPS Summary Screen**
Operation Procedures

Access the Summary Screens from the UPS

From the Parallel System Screen

The UPS Parallel System screen provides you with an overview of the parallel system and the circuit breakers. It shows the system status and the power flow through the system and gives access to the system summary screens.

NOTE: The UPS you are standing in front of is highlighted on the screen and the other UPS units are faded.

A. Access UPS Summary screens.
B. Access Bypass Summary screens.

From the UPS Summary Screen

The UPS Summary screen provides you with an overview of the actual UPS and circuit breakers. It shows the system status and the power flow through the UPS and gives access to the system summary screens and the Operation screen.

A. Access Input Summary screens.
B. Access Bypass Summary screens.
C. Access Output Summary screens.
D. Access Battery Summary screens.
E. Access Operation screens.
**Access the Summary Screens from the External Bypass**

The **Bypass Parallel System** screen provides you with an overview of the UPS system and circuit breakers. It shows the system status and the power flow through the system and gives access to the system bypass summary screens and the **Operation** screen. The **Operation** screen on the external bypass has limited functionality compared to the **Operation** screen on the UPS.

A. Access **Bypass Summary** screens.
B. Access **Operation** screen.

**Access Screens Protected by User Password**

1. When prompted for the user password, tap the password field to access the keyboard.
2. Type in the user password and tap ENTER.

NOTE: On installation, the user password is set to apc.

Transfer the System from Normal to Manual Bypass Operation

NOTE: The UPS Shutdown screen on this page shows an example of a generic shutdown sequence. Follow and complete the shutdown sequence on your UPS Shutdown screen which is specific to your system.

1. In parallel systems only: Tap the highlighted UPS on the Parallel System screen.
2. Select Operation > UPS Summary > Shutdown to access the UPS Shutdown screen.
3. Follow the procedure on the screen which is specific to your system.
Start Up the System from Manual Bypass Operation

**NOTE:** The **UPS Startup** screen in this procedure shows an example of a generic startup sequence. Follow and complete the startup sequence as shown on your **UPS Startup** screen which is specific to your system.

1. Close the Q5 and Q1 breakers in the external maintenance bypass panel to power up the internal power supply. Wait for the display to become active.
2. In parallel systems only: Tap the highlighted UPS on the **UPS Parallel System** screen.
3. From the **UPS Summary** screen select **Operation > Startup**.
4. The **UPS Startup** screen appears with the **Charge DC Capacitors** step highlighted. Follow the procedure on the screen which is specific to your system.

### Single System

<table>
<thead>
<tr>
<th>Number</th>
<th>Step</th>
<th>Action / Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Close breaker Q5</td>
<td>Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>2</td>
<td>Close breaker Q1</td>
<td>Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>3</td>
<td>Charge DC capacitors</td>
<td>Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>4</td>
<td>Close battery breakers Q7 and Q4</td>
<td>Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>5</td>
<td>Close breaker Q9</td>
<td>Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>6</td>
<td>Close breaker Q8</td>
<td>Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>7</td>
<td>Close breaker Q7</td>
<td>Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>8</td>
<td>Push UPS 10kVA button</td>
<td>Start up the internal power supply. Wait for the display to become active.</td>
</tr>
</tbody>
</table>

Verify that no alarm is active on any unit before continuing to the next step.

1. Open breaker Q3
2. Initiate transfer to Online

### Parallel System

<table>
<thead>
<tr>
<th>Number</th>
<th>Step</th>
<th>Action / Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Close breaker Q5</td>
<td>Charge DC capacitors. Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>2</td>
<td>Close breaker Q1</td>
<td>Charge DC capacitors. Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>3</td>
<td>Charge DC capacitors</td>
<td>Charge DC capacitors. Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>4</td>
<td>Close battery breakers Q7 and Q4</td>
<td>Charge DC capacitors. Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>5</td>
<td>Close breaker Q9</td>
<td>Charge DC capacitors. Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>6</td>
<td>Close breaker Q8</td>
<td>Charge DC capacitors. Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>7</td>
<td>Close breaker Q7</td>
<td>Charge DC capacitors. Start up the internal power supply. Wait for the display to become active.</td>
</tr>
<tr>
<td>8</td>
<td>Push UPS 10kVA button</td>
<td>Charge DC capacitors. Start up the internal power supply. Wait for the display to become active.</td>
</tr>
</tbody>
</table>

Verify that no alarm is active on any unit before continuing to the next step.

1. Open breaker Q3
2. Initiate transfer to Online

### Transfer the System from Normal to Static Bypass Operation

1. In parallel systems only: Tap the highlighted UPS on the **Parallel System** screen.
2. From the **UPS Summary** screen select **Operation > Online to Static Bypass**.
3. Tap **Initiate Transfer**.
4. Verify that the status in the upper right corner of the screen has changed to **Static Bypass**.

**Transfer the System from Static Bypass to Normal Operation**

1. In parallel systems only: Tap the highlighted UPS on the **Parallel System** screen.
2. From the **UPS Summary** screen select **Operation > Static Bypass to Online**.
3. Tap **Initiate Transfer**.
4. Verify that the status in the upper right corner of the screen has changed to **Normal**.

**Start a Web-Based Remote Session**

The read-only display screens can be accessed via an internet browser by typing the IP address of the Symmetra MW display into the web browser address field. Configuration and operation of the Symmetra MW UPS or display through the remote display is not supported.

The remote display feature requires Microsoft Internet Explorer 8 or higher. For the best results, Schneider Electric recommends that the Sun JVM version 1.4.2_05 or higher is installed, which is available from the Sun website.

**NOTE:** Operation/configuration must be done at the UPS.

**NOTE:** The **Event log** screen can be accessed through the **Operation** screen. Only the 50 most recent events in the **Event Log** screen can be downloaded.

**NOTE:** Network settings must be configured before the remote display feature can be used.

**NOTE:** If the **Remote Display Inactivity Time-out** on the **Remote Display Settings** screen is set to **Never**, the session must be manually terminated by closing the remote display session. For more information see **Configure the Network Configurations, page 12**.

**NOTE:** Only one remote session at a time is supported.
1. Enter the IP address of the UPS in the web browser address field to start a web-based remote session. After a few seconds, a new window will open and display the screen as shown above.

2. Use the mouse to click on the buttons and navigate to the other screens.

3. Close the window or the web browser to end the remote session.
Maintenance

Access the Predictive Maintenance Screens

The Predictive Maintenance screens display the Stress Status and the ERL (Expected Remaining Lifetime) of the components of the Symmetra MW system.

1. In parallel systems only: Tap the highlighted UPS on the Parallel System screen.
2. Tap the Operation button and select Predictive Maintenance.

There are three Predictive Maintenance screens.

- Top Fans
- Inverter Fans
- Main Static Switch Fans

The Predictive Maintenance screens display the actual status and the ERL (Expected Remaining Lifetime) of the parts above. You can sort the data by tapping any of the column labels.

- Stress Status: Shows the actual status. The possible values are:
  - Normal (displayed in green)
  - Stressed (displayed in yellow)
  - Major Stress (displayed in red)
- ERL (months): Predicts the expected remaining lifetime of the particular component.

3. Tap arrow down to go to the next Predictive Maintenance screen.
Access Fan Status Screens

1. In parallel systems only: Tap the highlighted UPS on the Parallel System screen.

2. Tap the Operation button and select Fan Status.

There are three Fan Status screens:

- Top Fans
- Inverter Fans
- Main Static Switch

The status is shown for each individual fan:

- Fan OK
- Fan lifetime near end
- Fan lifetime exceeded
- Fan fault

3. Tap arrow down to go to the next Fan Status screen.
Replace the Air Filters

Check the air filters at regular intervals (every three months under normal working conditions) for accumulated dust on the surface facing the finishing panels. Change all filters at the same time.

1. Pull the lower part of the top finishing panel off the UPS.
2. Lift the finishing panel off the dead front panel and remove.

   **NOTE:** Note the orientation of the air filter.

3. Follow this procedure until all panels in one column have been removed.

4. Use the same procedure for the next column of panels until all panels have been removed from the UPS system.

5. Remove the air filters and install new air filters.

6. Reinstall the finishing panels in reverse order.
**Troubleshooting**

**Alarm Levels**

The color of the top of the screen changes from blue to red when an alarm situation occurs and the alarm symbol is shown at the top of the screen.

There are three different alarm levels:

- **Info**: Informational Alarm. No immediate action required. Check the cause of the alarm at next maintenance visit.
- **Warning**: Example: The UPS system may have gone into bypass. The load remains supported, but action must be taken. Call Technical Support. The area on the right side of the top screen alternates between blue and red.
- **Severe**: Take immediate action. Call Technical Support. The red area of the top of the screen alternates between blue and red.

**Alarm Button**

Tapping the alarm button will display the Active Alarms screen showing all active alarms, along with a methodology for addressing each alarm. Tapping the alarm button or any other display button will automatically silence the alarm.

**View Active Alarms**

1. Tap the red triangular alarm symbol to view active alarms.
2. Only active alarms will appear in this list. Previous alarms are stored in the Event Log, which contains a detailed record of the system’s last 1024 events. Tap the Event Log button to go to the event log.

**View the Event Log**

**NOTE**: Network settings and e-mail settings must be enabled and configured correctly before the event log can be e-mailed.

The event log can be accessed either by tapping the Event Log button on the Active Alarms screen or by following this procedure:
1. This step is only applicable to parallel systems: Tap the highlighted UPS on the Parallel System screen.

2. Tap the Operation button and select View Event Log.

The Event Log screen contains a detailed record of the system’s latest 1024 events. This includes operation mode changes, system alarms, etc.

- **Refresh**: Tap the Refresh button to update the event log.
- **Stop** (only visible during update): Tap this button to stop further downloading of the event log. This button is useful for viewing only the most recent events.
- **E-mail Event Log**: Tap this button to e-mail the event log to a specific e-mail address. Type in the e-mail address and tap Send.