

PowerLogic™ PFC

Smart Capacitor Banks

Commissioning Guide

PowerLogic offers power quality, uptime and efficiency.

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07/2023



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As part of a group of responsible, inclusive companies, we are updating our communications that contain non-inclusive terminology. Until we complete this process, however, our content may still contain standardized industry terms that may be deemed inappropriate by our customers.

Safety Information

Important Information

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation 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 label 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 that follow 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.

WARNING

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

CAUTION

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

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

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.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

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Safety Precautions

Installation, wiring, testing and service must be performed in accordance with all local and national electrical codes.

⚠️⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate Personal Protective Equipment (PPE) and follow safe electrical work practices. See NFPA 70E, CSA Z462 or other local standards.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm that all power is off.
- Assume communications and I/O wiring are hazardous live until determined otherwise.
- Do not exceed the maximum ratings of this device.
- Replace all devices, doors and covers before turning on power to this equipment.
- Wait 5 mins after isolating supply before handling.

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

⚠️ WARNING

UNINTENDED EQUIPMENT OPERATION

- Do not use the software for critical control or protection applications where human or equipment safety relies on the operation of the control action.
- Do not use the software to control time-critical functions because communication delays can occur between the time a control is initiated and when that action is applied.
- Do not use the software to control remote equipment without securing it with an authorized access level, and without including a status object to provide feedback about the status of the control operation.

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

⚠️ WARNING

INACCURATE DATA RESULTS

- Do not incorrectly configure the software, as this can lead to inaccurate reports and data results.
- Do not plan your maintenance or service actions solely on messages and information displayed by the software.
- Do not rely solely on data displayed in the software reports to determine if the system is functioning correctly or meeting all applicable standards and requirements.
- Do not use data displayed in the software as a substitute for proper workplace practices or equipment maintenance.

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

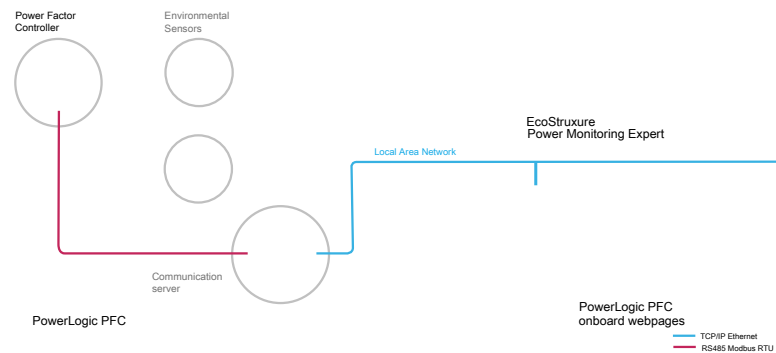
⚠ WARNING**POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY**

- Change default passwords to help prevent unauthorized access to device settings and information.
- Disable unused ports or services and default accounts, where possible, to minimize pathways for malicious attacks.
- Place networked devices behind multiple layers of cyber defenses (such as firewalls, network segmentation, and network intrusion detection and protection).
- Use cybersecurity best practices (for example: least privilege, separation of duties) to help prevent unauthorized exposure, loss, modification of data and logs, interruption of services, or unintended operation.

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

About this Guide

This guide explains the methodology to commission and configure PowerLogic PFC Controller and Easergy CL110 with PAS800 as a gateway energy server.



This guide assumes you have an understanding of power quality and power factor correction and are familiar with the architecture and power system in which your devices are installed.

For detailed operating instructions, including safety messages, read the user manuals of the devices. The most up-to-date documentation about your devices are available for download from www.se.com.

Related Documents

Document	Number	Link	QR code
EcoStruxure Panel Server User Guide	DOCA0172EN	https://www.se.com/ww/en/download/document/DOCA0172EN/	
Easergy CL 110 Installation and Operation Manual	QGH40088	https://www.se.com/ww/en/download/document/QGH40088/	
PowerLogic™ VL series PF Correction Controller User Manual	7EN02-0375	https://www.se.com/ww/en/download/document/7EN02-0375-01/	
EcoStruxure™ Power Monitoring Expert 2022 System Guide	7EN02-0471	https://www.se.com/ww/en/download/document/7EN02-0471/	

Cybersecurity

Product defense-in-depth

Use a layered network approach with multiple security and defense controls in your IT and control system to minimize data protection gaps, reduce single-point of failure and create a strong cybersecurity posture. The more layers of security in your network, the harder it is to breach defenses, take digital assets or cause disruption.

⚠ WARNING

POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY

- Change default passwords/passcodes to help prevent unauthorized access to device settings and information.
- Disable unused ports/services and default accounts, where possible, to minimize pathways for malicious attacks.
- Place networked devices behind multiple layers of cyber defenses (such as firewalls, network segmentation, and network intrusion detection and protection).
- Use cybersecurity best practices (for example: least privilege, separation of duties) to help prevent unauthorized exposure, loss, modification of data and logs, interruption of services, or unintended operation.

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

Refer the following documents for the cybersecurity best practices during commissioning procedure:

- EcoStruxure Panel Server User Guide: DOCA0172EN
- EcoStruxure™ Power Monitoring Expert 2022 System Guide: 7EN02-0471

PowerLogic PFC Smart - EcoStruxure (Panel Server Webpage)

Firmware Upgrade

1. Note the Mac ID from PAS800.
2. Convert the last 2 bytes of MAC address from hex to decimal = YY. ZZ.
3. The IP address for the webpage will be `https://169.254.YY.ZZ`.
4. Connect the EcoStruxure Panel Server (PAS800) to power supply (100...277 Vac/Vdc).
5. Go to **Maintenance** tab. Check if the firmware version of PAS800 is same as the latest firmware on this link <https://www.se.com/us/en/product-range/40739468-ecostruxure-panel-server/#software-and-firmware>. If not, follow step 6.
6. Download the latest firmware PAS800 advanced firmware xxx.xxx.xxx for upgrade from the following link, to your local PC.
<https://www.se.com/us/en/product-range/40739468-ecostruxure-panel-server/#software-and-firmware>.
7. Go to **Maintenance > Firmware Update > Choose file** from Local PC download in above step.
8. Click **Start** to upload the file.
This will take around 40 s for uploading the data.
9. Click **Install** to install the new firmware.
Do not power off the PAS800 while firmware installation is in progress.
10. Click **Restart** to apply new version of firmware.
It will take 2 minutes for the reboot.

Setup

1. Connect the RS - 485 Modbus serial cable from PowerLogic PFC Controller to PAS800.
2. Connect the LAN cable from ETH1/ETH2 port of PAS800 to the PC which is connected to same network to access the PAS800.
3. Navigate the webpage with the above IP address mentioned in *Firmware Upgrade*, page 11.
4. Skip the Login step or Enter a new Password to set for authentication.
5. Pair the temperature and humidity sensor (CL110) and PowerLogic PFC Controller with PAS800. Refer Annexure: Integration of CL110 and PowerLogic PFC with PAS800.

- Place the CL110 at the locations inside the PAS800, where these parameters are to be measured and monitored.

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UNAUTHORIZED SECURITY ACCESS

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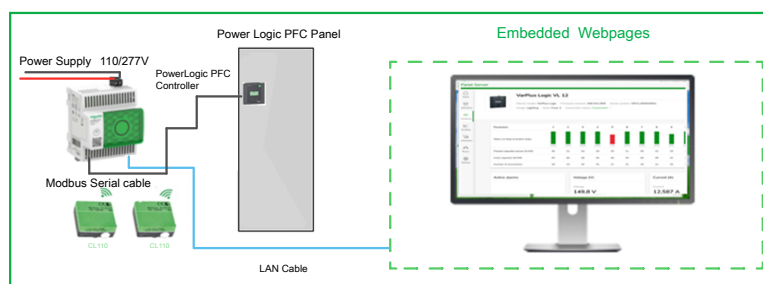
Failure to follow these instructions can result in death, serious injury, equipment damage, or permanent loss of data.

Related Topics

- EcoStruxure Panel Server User Guide: [DOCA0172EN](#)
- Technical Specification for Assemblies - CL110 Position for Smart Varset: [NNZ5243200](#)
- CL110 Position Instruction for PowerLogic PFC NAM: [GEX1696901](#)

Architecture

The architecture shows PowerLogic PFC Controller connected to PAS800 webpage. This webpage helps the user to view and monitor parameters of the PowerLogic PFC Controller.



Data Logging of PowerLogic PFC and CL110 in PAS800

- Navigate to the **Setting** tab.
- Navigate to **Data Management**.
- Select PowerLogic PFC Controller from the device list.
- Enable the **Data Sampling** for the data parameters to be logged. Select **Period** for sampling.
- Click **Save Changes**.
- Go to **Data Sampling**, then click **Activate Sampling**.
- Follow above steps for CL110 data logging.
- Select **Date** and **Time** for exporting the data.

Related Topics

- EcoStruxure Panel Server User Guide: [DOCA0172EN](#)

Data Monitoring in Webpages

1. Go to **Monitoring** and CL110 tab.
2. Select PowerLogic PFC Controller or CL110.
3. Go to **Data and Advanced Data** for monitoring the data parameters.

NOTE: Alarms can be monitored from **Data** tab.

Enabling Alarm

Follow the below steps to enable the alarm:

1. Go to **Settings > Data Management**.
2. Click PowerLogic PFC Controller or CL110.
3. Go to **Alarm** tab.
4. Enable required alarms, click **Save**.

Troubleshooting

For more details, refer to the ***Troubleshooting sections*** of the PAS800, PowerLogic PFC and CL110 user manuals.

Related Topics

- Easergy CL110 Installation and Operation Manual: QGH40088
- PowerLogic™ VL series PF Correction Controller User Manual: 7EN02-0375
- EcoStruxure Panel Server User Guide: DOCA0172EN

PowerLogic PFC Smart - Ecostruxure (Power Monitoring Expert)

Setup

1. Place the two CL110 sensors in the positions identified in the **CL110 LOCATIONS - SMART VARSET** document.
This document is provided with the PowerLogic Smart Panel.
2. Connect an Ethernet cable from your local computer to the Ethernet port 1/2 of the PAS800.
3. Power on the panel server. The PAS800 takes approximately 2 minutes for starting.
4. Type the default IP [<https://169.254.YY.ZZ>]. (Refer to [Firmware Upgrade](#), page 11) in the address field of your web browser and press **skip** to view the login page.

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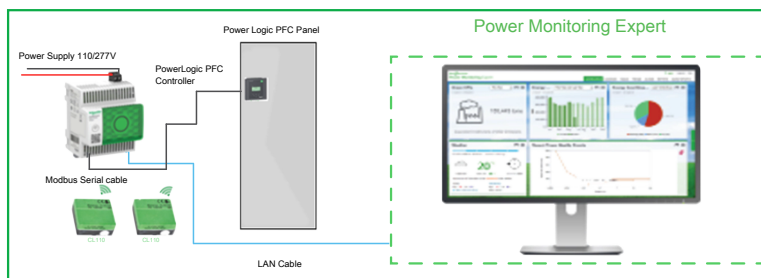
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Related Topics

- EcoStruxure Panel Server User Guide: DOCA0172EN
- Technical Specification for Assemblies - CL110 Position for Smart Varset: NNZ5243200
- CL110 Position Instruction for PowerLogic PFC NAM: GEX1696901

Architecture

1. The PowerLogic PFC is connected to PAS800 using RS - 485 Modbus serial cable.
2. The CL110 sensor inside the PowerLogic PFC smart panel are discovered in PAS800.
3. The PAS800 is connected in the network with internet accessibility to Power Monitoring Expert (PME) with firmware version 9.0 and above as a gateway server.



Installation of PME

1. Subscribe to EcoStruxure Power Monitoring Expert (PME) with firmware version 9.0 and above using the link <https://www.se.com/ww/en/faqs/home/>.



2. After subscription, you will receive a link to register into EcoStruxure Power Monitoring Expert.
3. Login to the link using the registered email address and password and download the EcoStruxure Power Monitoring Expert package on your system.

Client Types

In (PME) you use clients to access the configuration tools and the applications for viewing data.

There are two different types of clients:

- Engineering Clients are used to configure and administer the system.
- Web Clients are used to view Power Monitoring Information.

Engineering Client

An Engineering Client is an administrative interface in (PME) that is used to configure and administer the system. Engineering Client include tool such as the Management Console, Vista, and Designer.

One Engineering Client is installed, by default on the (PME) Server.

Web Client

A Web Client is used to view power monitoring information such as real time data, historical information, and alarms which are used in everyday power management tasks.

Web Clients access the data on the server through a web browser. No installation is required.

Web Clients can run on any computer on the network. Web Clients require a Web Client license.

Web Clients can access the Web Applications (Dashboards, Diagrams, Trends, Alarms, and Reports) in (PME).

Related Topics

- EcoStruxure™ Power Monitoring Expert 2022 System Guide: 7EN02-0471

Configuring Management Console For PAS800, PowerLogic PFC, and CL110

NOTE: You need to download the PME driver links for PowerLogic PFC and CL110 before you add the devices to Management Console.

- PowerLogic PFC Driver for PME 9.0



- PowerLogic PFC Driver for PME 2020



- PowerLogic PFC driver for PME 2022
- CL110 Driver for PME 9.0/PME 2020



Use Management Console to add, remove, or configure system components, such as metering devices, in your Power Monitoring Expert Power Management System.

You can setup different types of sites (communication links such as Ethernet or Serial) and setup connection schedules for these sites.

Adding PowerLogic PFC, PAS800, and CL110 to Management Console

Follow the steps to add PowerLogic PFC, PAS800, and CL110 to Management Console:

1. Open **Power Monitoring Expert** folder.
2. Double-click the **Management Console** file. The **Logon - Power Monitoring Expert** window opens.
3. Enter **User Name** and **Password** and then click **OK**.

NOTE: The default **User Name** is Supervisor and the default **Password** is 0.

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The **Management Console > supervisor > Power Monitoring Expert** window opens.

4. To add PAS800 as an Ethernet gateway site, follow the steps below:
 - a. Assign **DHCP client** or **Static IPv4 address** to PAS800 and use this for creating the Ethernet gateway site.
 - b. Click **Sites** icon and navigate to the main tab and click **Edit**.
 - c. Select **Configure Site** from the list, the **Ethernet Gateway Site Configuration** window open.
 - d. Enter all the details in the **Ethernet Gateway Site Configuration** window and click **OK**.
5. To add PowerLogic PFC as serial device, follow the steps below:
 - a. Click **Devices** icon and navigate to the main tab and click **Edit**.
 - b. Select **Configure Device** from the list.
The **Serial Device Configuration** window opens.
 - c. Enter all the details in the **Serial Device Configuration** window and click **OK**.

NOTE: Enter the **Server ID** details assigned in PAS800 web page.

6. To add CL110 as serial device, follow the above steps mentioned for PowerLogic PFC.

Related Topics

- EcoStruxure™ Power Monitoring Expert 2022 System Guide: 7EN02-0471

Configuring Vista for PowerLogic PFC

Vista is the PME component that displays and controls your power monitoring system. Use Vista user diagrams to display real time and logged data, monitor events and alarms, and control a variety of system functions.

Follow the steps to create PowerLogic PFC user diagrams:

1. Open **Power Monitoring Expert** folder.
2. Double-click the **Vista** file. The **Logon - Power Monitoring Expert** window opens.
3. Enter **User Name** and **Password** and then click **OK**.

NOTE: The default **User Name** is Supervisor and the default **Password** is 0.

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The **Vista > supervisor > Power Monitoring Expert** window opens.

4. Go to **File** tab and then click **Open**.
5. Choose the file **Equipment_GroupPage_CapBankPg1.dgm** from the list and click **Open**.
6. The **User Diagram:Equipment_Group Page_CapBankPg1** window opens.

NOTE: You can also find **Equipment_GroupPage_CapBankPg1.dgm** file from **C:\Program Files (x86)\Schneider Electric\Power Monitoring Expert\Config\Digrams\ud\default** location.

7. Go to **Options** tab and enable **Show Toolbox** to view **Diagrams Objects** options tab.
8. Right click on the **Device Grouping Object**.
The **Grouping Object Configuration** window opens.
9. Go to **Node** and select **Custom**. Click **Select** to view the list of **Nodes**.
10. Select **PowerLogic PFC Node** from the list and click **OK**.

You can see the **Preview** of the **Node** selected in the **Grouping Object Configuration** window.

11. Click **OK** to close the **Grouping Object Configuration** window.
The PowerLogic PFC **Network** diagram is ready for the **Node** selected.
12. Double-click on the **Device Grouping Object** to see all available data for PowerLogic PFC.
13. Go to **File** tab and select **Save As** to save the PowerLogic PFC **Network** diagram in a different location.

NOTE:

- You cannot save the **Network** diagram in the **Equipment** folder (**C:\Program Files (x86)\Schneider Electric\Power Monitoring Expert\Config\Digrams\ud\default**).
- Make sure that you do not disturb the existing **User Diagram: Equipment_GroupPage_CapBankPg1** file (Template).

Related Topics

- EcoStruxure™ Power Monitoring Expert 2022 System Guide: 7EN02-0471

Configuring Vista for CL110

Follow the steps to create CL110 user diagrams:

1. Open **Power Monitoring Expert** folder.
2. Double-click the **Vista** file. The **Logon - Power Monitoring Expert** window opens.
3. Enter **User Name** and **Password** and then click **OK**.

NOTE: The default **User Name** is Supervisor and the default **Password** is 0.

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The **Vista > supervisor > Power Monitoring Expert** window opens.

4. Go to **File** tab and then click **Open**.
5. Choose the file **File Equipment_GroupPage_CapBankPg1.dgm** from the list and then click **Open**.
6. The **User Diagram:Equipment_GroupPage_CapBankPg1** window opens.

NOTE: You can also find **CL110_FAC_V1.0.0** file from **C:\Program Files (x86)\Schneider Electric\Power Monitoring Expert\Config\Digrams\ud\default** location.

7. Go to **Options** tab and enable **Show Toolbox** to view **Diagrams objects** options tab.
8. Right click on the **Device grouping object**.
The **Grouping Object Configuration** window opens.
9. Go to **Node** and select **Custom**. Click **Select** to view the list of **Nodes**.
10. Select **CL110 Node** from the list and click **OK**.

You can see the **Preview** of the **Node** selected in the **Grouping Object Configuration** window.

11. Click **OK** to close the **Grouping Object Configuration** window.
The CL110 **Network** diagram is ready for the **Node** selected.
12. Double-click on the **Device grouping object** to see all available data for CL110.
13. Go to **File** tab and select **Save As** to save the CL110 **Network** diagram in a different location.

NOTE:

- You can not save the **Network** diagram in the **Equipment** folder (**C:\Program Files (x86)\Schneider Electric\Power Monitoring Expert\Config\Digrams\ud\default**).
- Make sure that you do not disturb the existing **CL110_FAC_V1.0.0** file (Template).

Related Topics

- EcoStruxure™ Power Monitoring Expert 2022 System Guide: 7EN02-0471

Data Monitoring

Viewing of PowerLogic PFC and CL110 Parameters in PME

The **Network Diagram** in PME dashboard allows you to view the various parameters.

NOTE: It is recommended to customize the PowerLogic PFC and CL110 in one diagram page.

1. Open the **Power Monitoring Expert** folder.
2. Double-click the **Web Applications** file.
3. Enter the **User Name** and **Password** and then click **OK**.

NOTE: The default **User Name** is Supervisor and the default **Password** is 0.

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The **Power Monitoring Expert** dashboard opens.

4. Navigate to **Diagrams** tab and click the **Network Diagram** to select the customized icon from the **Diagram Library**.
5. Click the icon to open the detail measurement diagram page.
6. Click the icon **Click here for more VPL measurements** on the bottom left of the webpage.
You will be directed to the webpage to view PowerLogic PFC real time measurement details.
7. Click **Volts/Amps** tab to view the real time voltage, current, power, power factor, and ambient temperature details.
8. Click the icons of **Current**, **Power**, **Power Factor**, and **Ambient Temperature** on the bottom of the webpage to view the periodically logged data.
9. If required, click **Show Graph** tab to view the periodically logged data in graph format.
10. Click **Device Diagram** tab to go back to the previous screen.
11. Click **Power Quality** tab to view the voltage harmonics.
12. Click **Alarms** tab to view the alarms settings and their status.
13. If required, click **Alarm Log** icon to view the pickup and dropout time of all occurred alarms.
14. Click **Device Diagram** tab to go back to the previous screen.
15. Click **Diagnostic** tab to view the settings.

NOTE: On the same page, you can also find the **Serial Number** and **F/W Rev** of the PowerLogic PFC.

16. Click the icon 1 or icon 2 **Click here for more CL110 measurements** on the bottom left of the webpage.
You will be directed to the **Monitoring** window of CL110.
On the left side of the window , you can view the **Temperature, Relative Humidity** and **Battery Voltage**.
On the right side of the window, you can view the **Communication Status** of the **Wireless Quality Indicators**.
Click **Logs** icon on the bottom of the window to view the **Historic Data Logs** of **Temperature** and **Relative Humidity**.
17. Navigate to **DASHBOARDS** tab to view the power factor, current and temperature variations.
18. Navigate to **TRENDS** tab to view the details in graph format.
19. Navigate to **ALARMS** tab to view the alarm status of all alarm events.
You can also view the **Active Alarms, Recent Alarms, Recent Events** and **Unacknowledged Alarms** on the same page.
20. Navigate to **REPORTS** tab to view the report settings.

Troubleshooting

For more details, refer to the **Troubleshooting** sections of the EcoStruxure Panel Server User Guide, PowerLogic™ VL series PF Correction Controller User Manual, Easergy CL110 Installation and Operation Manual, and Power Monitoring Expert 2022 System Guide Power Monitoring Expert 2022 System Guide.

Related Topics

- Easergy CL110 Installation and Operation Manual: QGH40088
- PowerLogic™ VL series PF Correction Controller User Manual: 7EN02-0375
- EcoStruxure Panel Server User Guide: DOCA0172EN
- EcoStruxure™ Power Monitoring Expert 2022 System Guide: 7EN02-0471

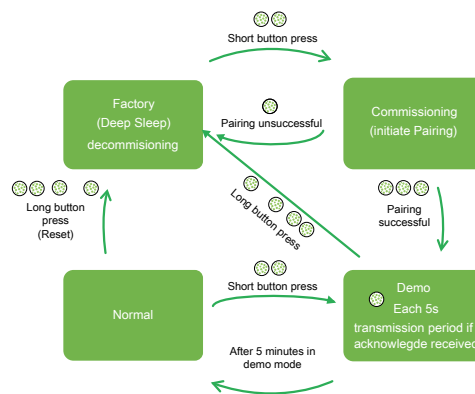
Annexure: Integration of CL 110 and PowerLogic PFC with PAS800

PowerLogic PFC Integration with PAS800

1. Go to **Settings tab > Modbus Device > Modbus Discovery**.
2. Identify the Modbus Server ID number from the PowerLogic PFC. (Go to Menu 703 of PowerLogic PFC, by default Server ID is 1).
3. Enter the Modbus Server ID in **Selective List** and Click **Start**. Then the PowerLogic PFC gets discovered.

CL110 Integration with PAS800

1. Go to **Settings tab > Wireless Devices > Wireless Configuration**.
2. Enable **Wireless Activation**. Click **Save** on the right bottom corner.
3. Go to **Wireless Discovery > Start**.
4. Press the push button on the side of CL110 to start the pairing process. The green LED flashes two times to show confirmation.
5. The green LED is visible on side of the sensor, beside the push button.



Green LED flash  indicators (flash interval is 500 milliseconds)

6. CL110 sensors will get discovered.

Related Topics

- PowerLogic™ VL series PF Correction Controller User Manual: 7EN02-0375
- Easergy CL110 Installation and Operation Manual: QGH40088
- EcoStruxure Panel Server User Guide: DOCA0172EN

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