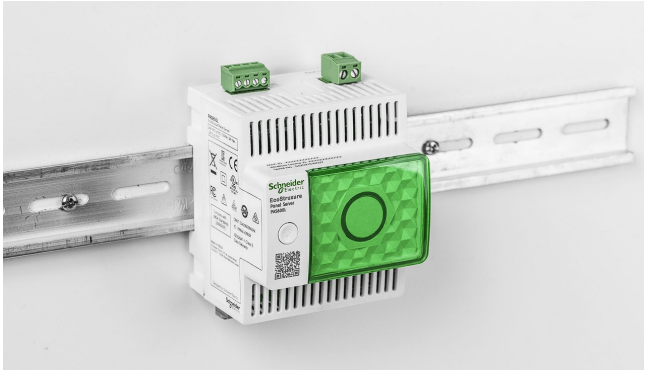


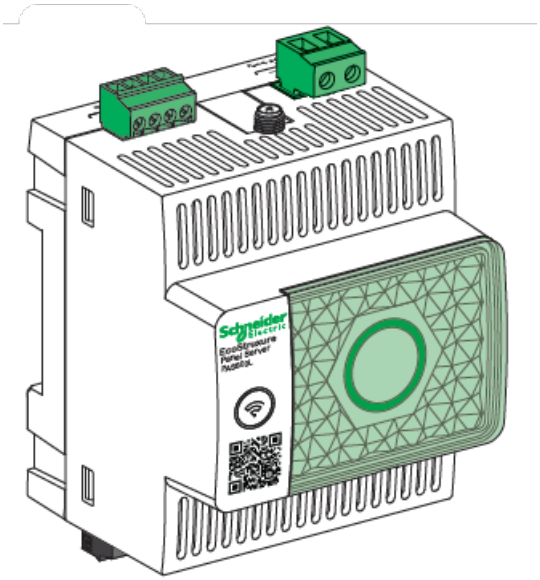
iF Panel Server Advanced Owner's Manual

Contents

iF Panel Server Advanced

EcoStruxure Panel Server Advanced

www.se.com/support Retain instruction sheet for future use. Visit our website at www.se.com to download the documents listed above (user guides) and other documents.



PLEASE NOTE

- Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel.
- All pertinent state, regional, and local safety regulations must be observed when installing and using this product.
- No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

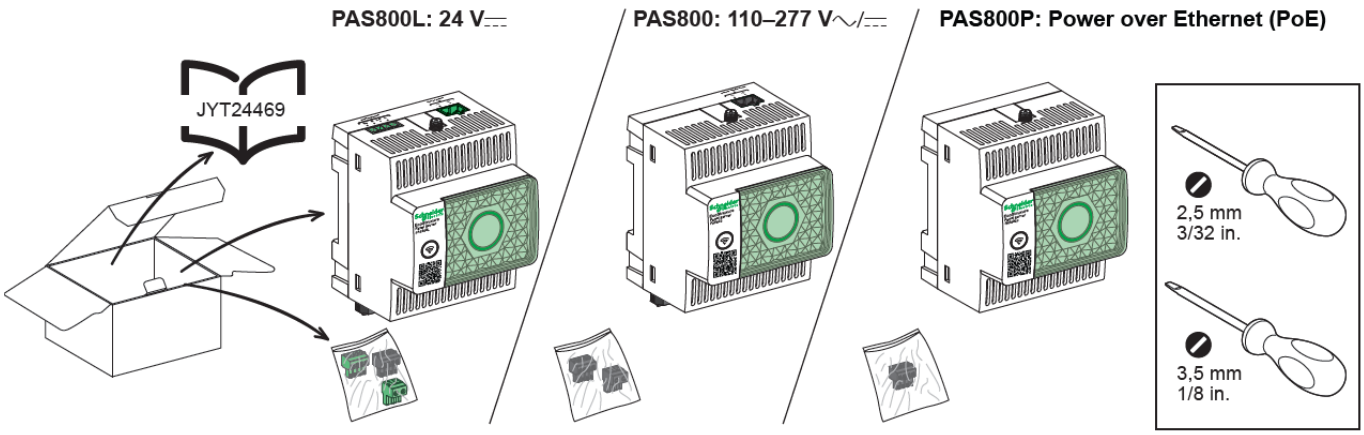
DANGER

- HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

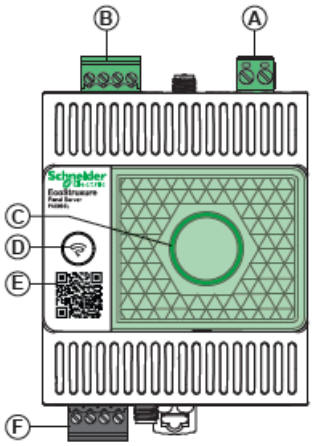
- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E, CSA Z462, NOM-029-STPS or local equivalent.
- This equipment must only be installed and serviced by qualified electrical personnel. p Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors, and covers before turning on power to this equipment. p Do not exceed the device's ratings for maximum limits.

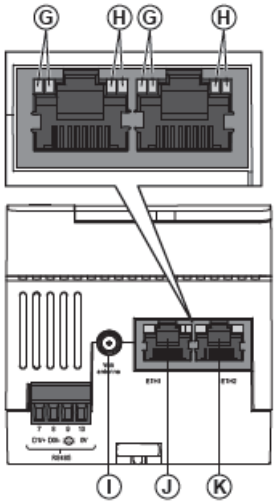
  Failure to follow these instructions will result in death or serious injury.

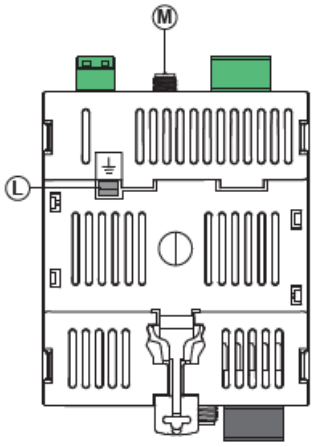
Required for Installation



Description



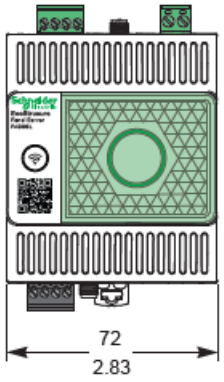


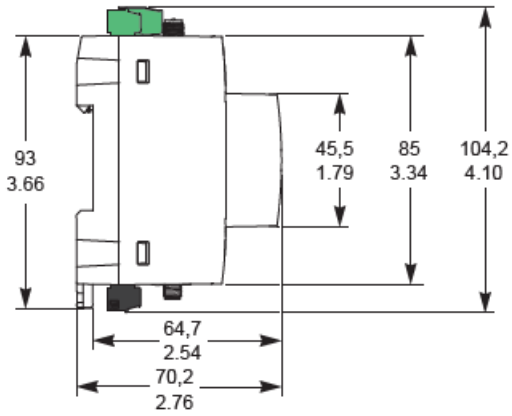


- Power supply terminal block (available in PAS800L and PAS800 only)
- Digital input terminal block (available in PAS800L only) Panel Server status LED
- Bluetooth/Restart button < 2 s: Enable Bluetooth
- Panel Server QR code to product information RSâ€“485 Modbus communication port
- Ethernet LED 1: Speed
- Ethernet LED 2: Activity
- Wi-Fi external antenna port
- Ethernet 1 communication port
- Ethernet 2 communication port

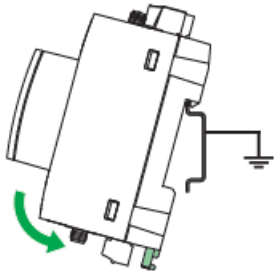
- (PoE port for PAS800P)
- Grounding connection IEE802.15.4 external antenna port

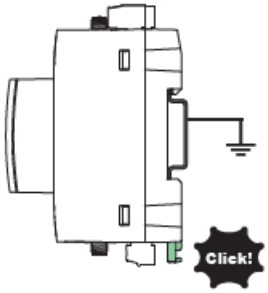
Dimensions

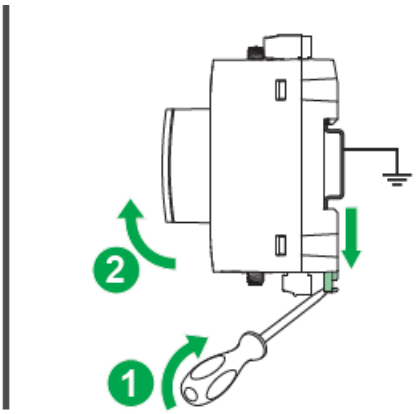




Installation

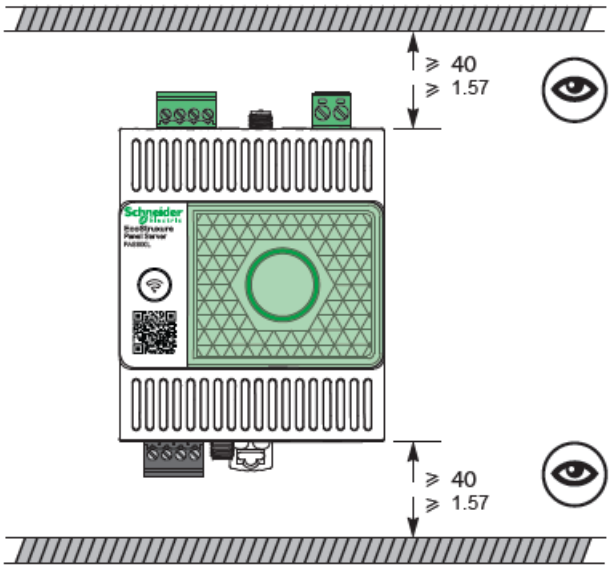






PLEASE NOTE

- For indoor use only.
- Not suitable for wet locations.
- Vertical installation is allowed if operating temperature remains between 25 °C to +50 °C (-13 °F to +122 °F).



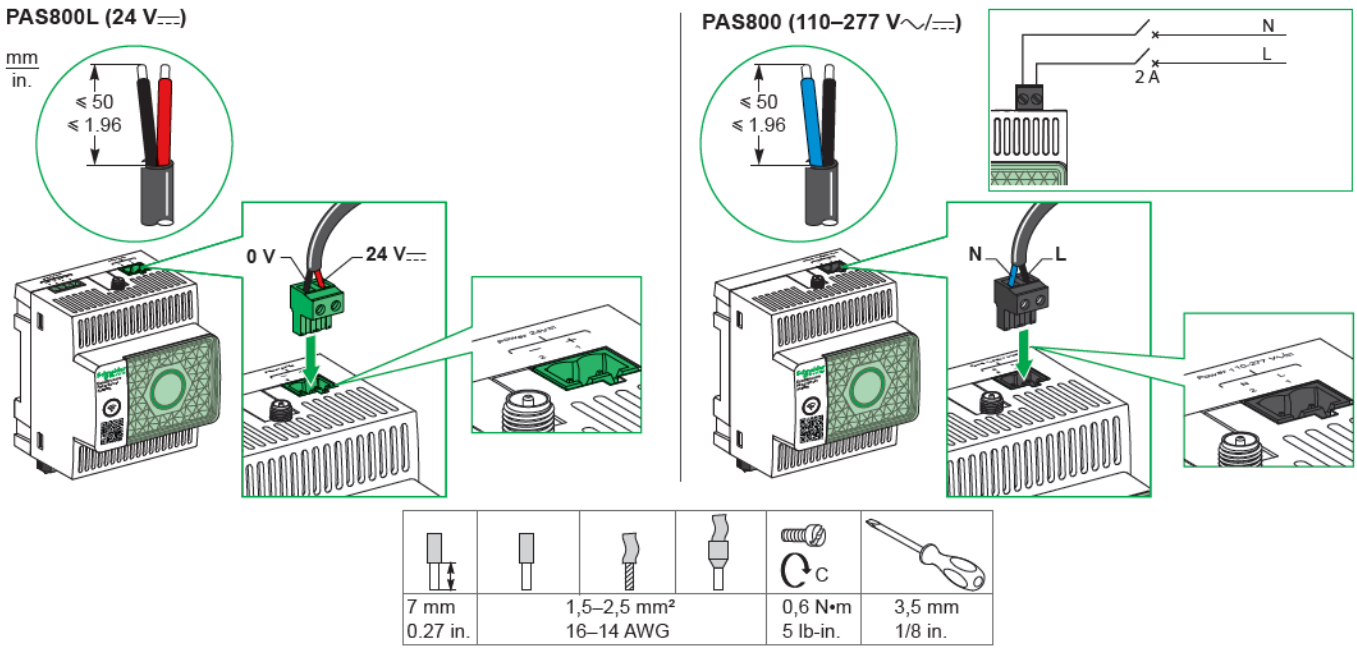
Wiring

Power Supply

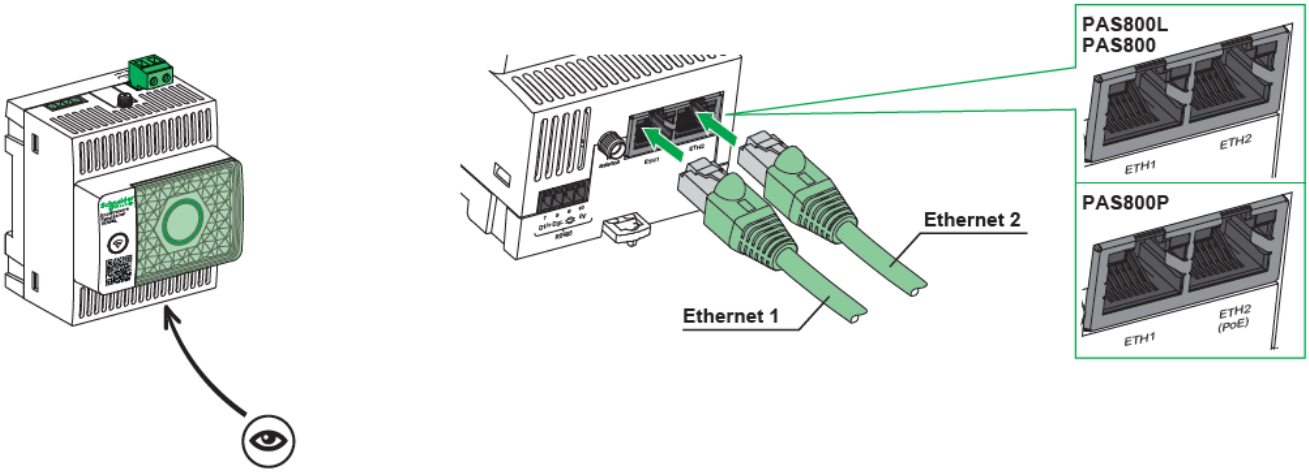
DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

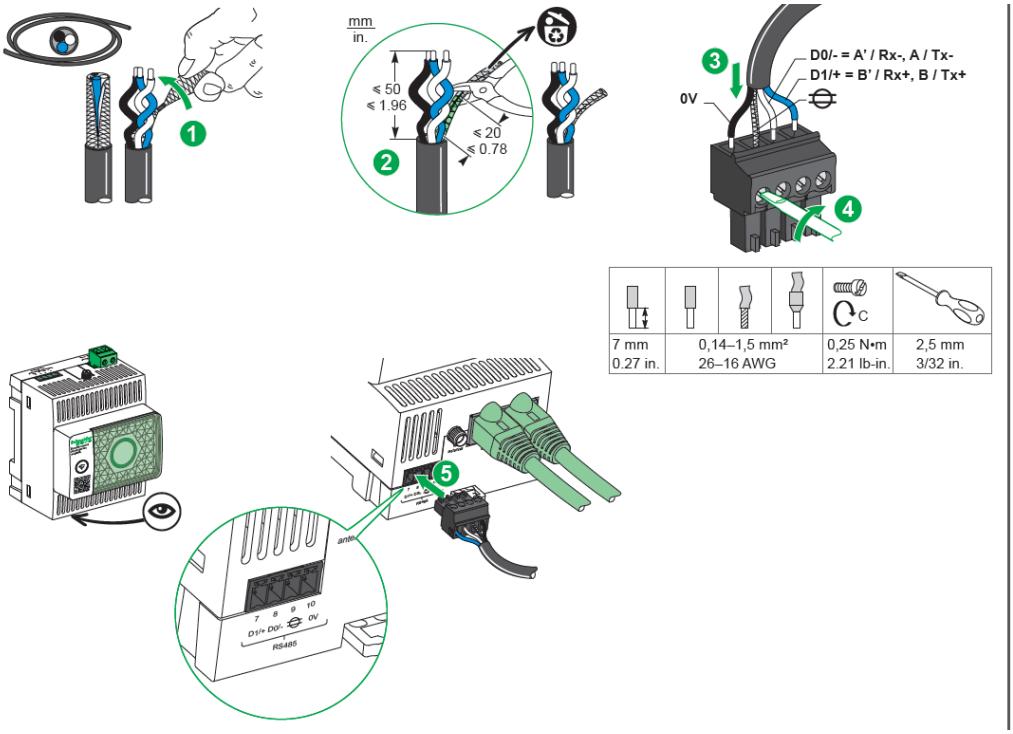
- PAS800L/PAS800 must be supplied by external power supply.
- PAS800L must be powered by 24 Vc, UL/CSA approved class II power supply. p PAS800L must be powered by 24 Vc, galvanically isolated SELV power supply for non NEMA/UL countries.
- PAS800L/PAS800 must be installed in a cabinet.
- All cables wired to PAS800L/PAS800 must be connected to a single building earth.
- Failure to follow these instructions will result in death or serious injury.



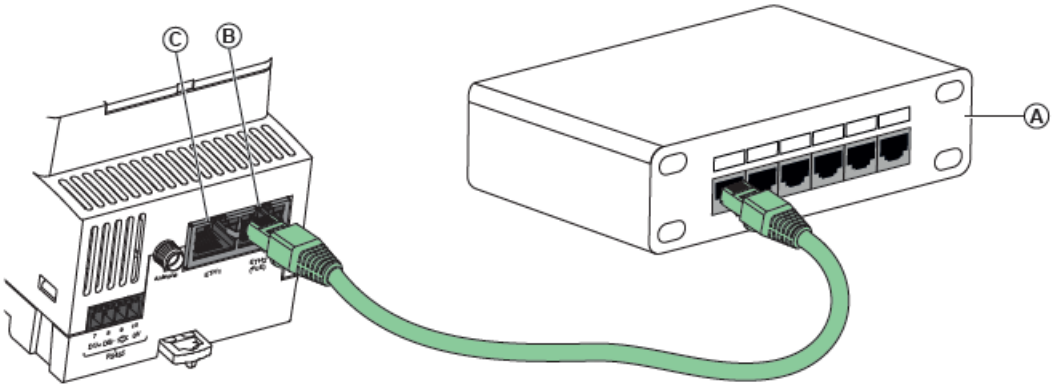
Ethernet Connection



RS–485 Modbus Port



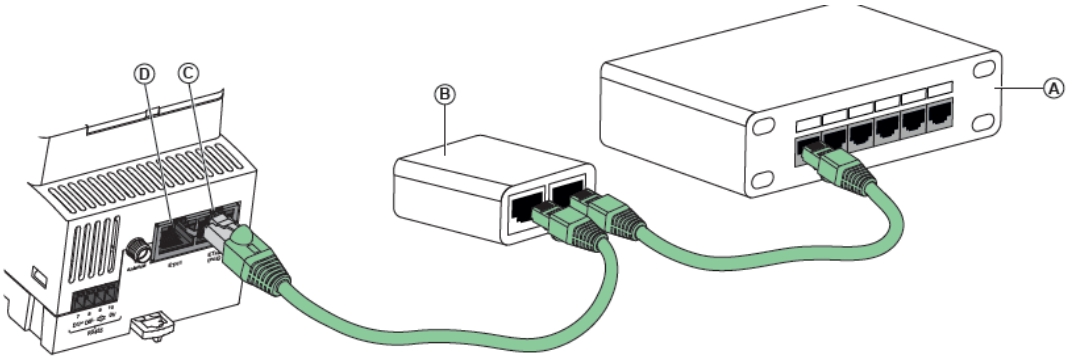
PAS800P: Ethernet Switch with Endspan PoE ports



- Ethernet Switch with Endspan PoE ports

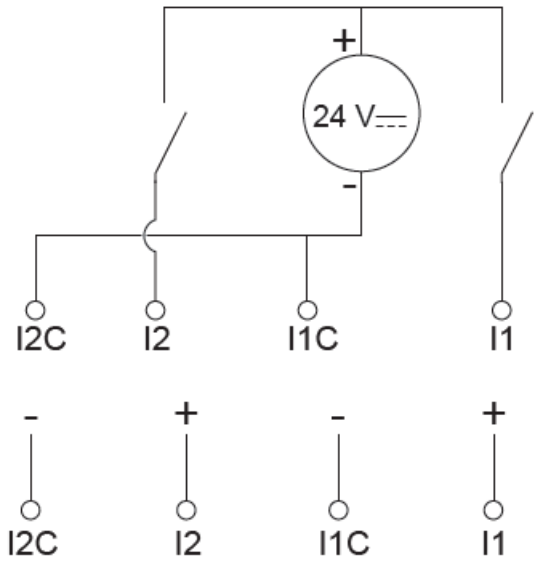
- Ethernet 2 (PoE) communication port
- Ethernet 1 communication port

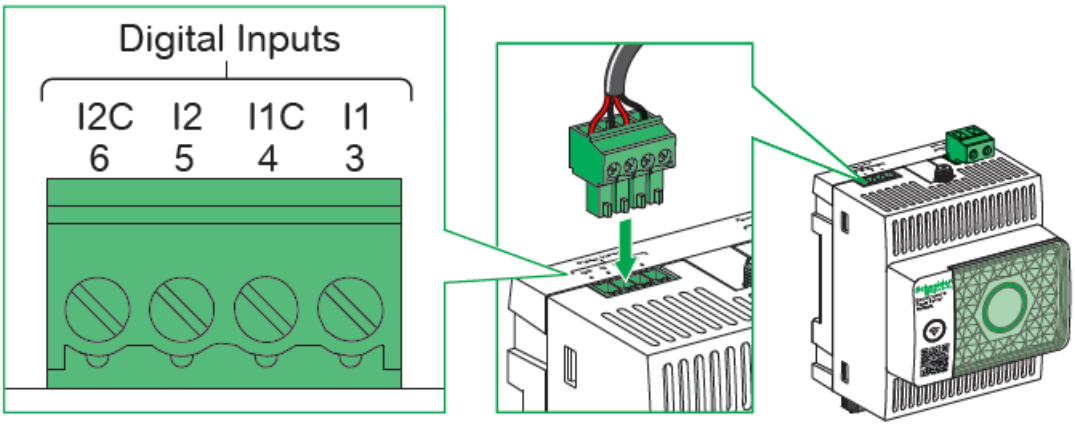
PAS800P: Ethernet Switch with Midspan PoE ports



- Ethernet Switch
- Midspan PoE Injector
- Ethernet 2 (PoE) communication port
- Ethernet 1 communication port

PAS800L: Digital Inputs



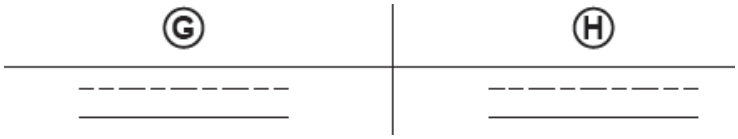


7 mm 0.27 in.	0,14–1,5 mm² 26–16 AWG			0,25 N•m 2.21 lb-in.	2,5 mm 3/32 in.

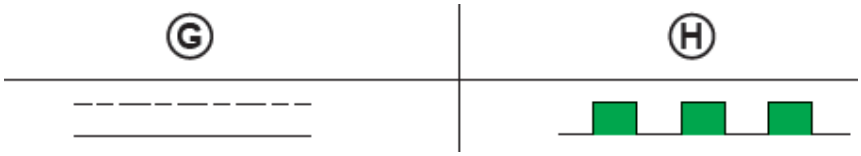
Status LED

Ethernet LEDs

- No Ethernet communication



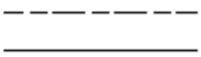
- 10 Mb Ethernet communication active



- 100 Mb Ethernet communication active

Panel Server Status LED

- No power



- Panel Server is powering on. System boots within 2 min.

- Nominal status

- Minor malfunction, connect to EPC or web pages to diagnose.

- Major malfunction, Panel Server must be replaced.

- Bluetooth communication ready for pairing.

- One Bluetooth client connected to Panel Server.

Commissioning

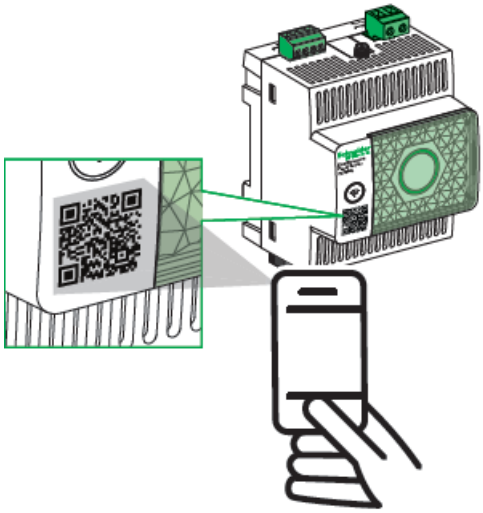
PLEASE NOTE
Commissioning is a mandatory step for enabling Panel Server functions.

With EPC Software

Panel Server Commissioning with EcoStruxure Power Commission (EPC) software:

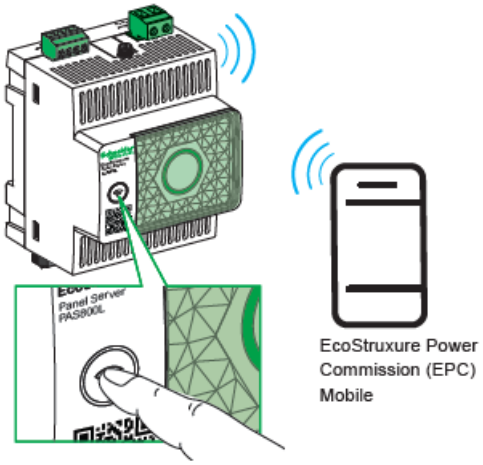
1. Search for EcoStruxure Power Commission on se.com.
2. Download EcoStruxure Power Commission (EPC) software.
3. Install EPC on your PC.
4. Connect the PC to an Ethernet port of the Panel Server.
5. Open EPC software.
6. Follow the instructions. For more information, refer to the EPC Online Help.

With EPC Mobile



EcoStruxure Power Commission (EPC) Mobile installation:

1. Flash the QR code on the Panel Serve with your smartphone.
2. On go2se.com, select EPC Mobile.
3. Install EPC Mobile.



Bluetooth® Wireless Technology Enabled Products

Panel Server Commissioning:

1. Open EPC Mobile.
2. Follow the instructions. EPC Mobile will ask you to press the button on the front panel of the Panel Server to enable the Bluetooth communication.

Characteristics

Communication

- 2 10/100 BASE-T Ethernet RJ45 ports, DPWS ready DHCP client IPv4, IPv6
- RS–485 Modbus port
- Ethernet 2 IEEE802.3af (802.3at Type1) Input characteristics
- Digital inputs: Type1

Power supply

- PAS800L: 24 Vc (±10 %)
- PAS800P: Power over Ethernet powered device
- PAS800: 110–277 Va/c (±10 %)
- Frequency rating: PAS800: 50–60 Hz (±5 Hz)
- Overvoltage Category III

Power consumption:

- PAS800L: < 3.5 W (maximum)
- PAS800: < 3.5 W (12 VA) (maximum)
- PAS800P: < 3.5 W (maximum)
- Power input for PAS800P
- Power over Ethernet: Class 0
- Operating Input Range: 37–57 Vc
- Rating: < 3.5 W (72 mA) 48 Vc typical

Environment

- Operating temperature: -25 °C to +70 °C (-13 °F to +158 °F)
- Storage temperature: -40 °C to +85 °C (-40 °F to +185 °F)
- Altitude: 2000 m (6500 ft)
- Humidity: 5–95 % relative humidity (without condensation) at 55 °C (131 °F)
- Pollution degree: PAS800L: 3 PAS800P: 2 PAS800: 2

Mechanical characteristics

- Connectors: IP20
- Other faces: IP30
- Front face nose: IP40

Radio Frequency Compliance Statements

EU Declaration of Conformity
Hereby, Schneider Electric Industries SAS, declares that the Panel Server is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU. The EU declaration of conformity PS21060101 can be downloaded on **www.se.com/docs**.

- Operating frequency for Wi-Fi is 2.4 GHz and 5 GHz, for others is 2.4 GHz
- Mximum radio-frequency power transmitted:
  - Wi-Fi: ≤ 100 mW
  - IEEE 802.15.4: ≤ 10 mW
  - Bluetooth: ≤ 10 mW

United Kingdom

UK Declaration of Conformity
Hereby, Schneider Electric Industries SAS, declares that the Panel Server is in compliance with the essential requirements and other relevant provisions of RED Directive UK SI 2017 No. 1206. The UK declaration of conformity UK_PS21060101 can be downloaded on **www.se.com/docs**.

- Operating frequency for Wi-Fi is 2.4 GHz and 5 GHz, for others is 2.4 GHz
- Mximum radio-frequency power transmitted:
  - Wi-Fi: ≤ 100 mW
  - IEEE 802.15.4: ≤ 10 mW
  - Bluetooth: ≤ 10 mW

USA

Federal Communication Commission Interference Statement:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

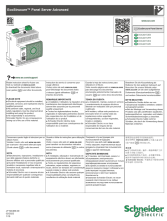
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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 pro-vide reasonable protection against harmful interference when the equipment is operate in a commercial environment. This equipment generates, uses, and can radiate radiofrequency 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.

FCC Caution:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.
Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

Documents / Resources

	iF Panel Server Advanced [pdf] Owner's Manual UPSA, 2AH7L-UPSA, 2AH7LUPSA, Panel Server Advanced, Panel Server, Advanced Panel Server, Server