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LG

LG

128 Expansion Kit

INSTALLATION MANUAL

Models: PQCSE440U0

ENGLISH

ITALIANO

ESPAÑOL

FRANÇAIS

DEUTSCH

DUTCH

РУССКИЙ ЯЗЫК

IMPORTANT

- Please read this installation manual completely before installing the product.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.
- Please retain this installation manual for future reference after reading it thoroughly.

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Safety Precautions



To prevent injury to the user or other people and property damage, the following instructions must be followed.

- Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

⚠ WARNING This symbol indicates the possibility of death or serious injury.

⚠ CAUTION This symbol indicates the possibility of injury or damage.

- Meanings of symbols used in this manual are as shown below.

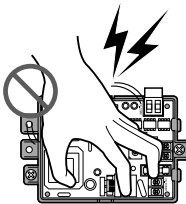
	Be sure not to do.
	Be sure to follow the instruction.

⚠ WARNING

■ Installation

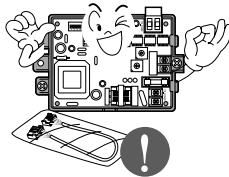
Don't touch with the hands while the power is on

- There is risk of fire or electric shock.



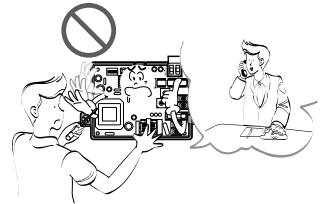
Use standard parts(connector).

- Do not disassemble or repair the product. There is risk of fire or electric shock.



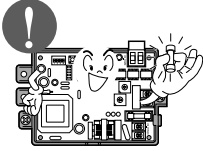
For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.

- Do not disassemble or repair the product. There is risk of fire or electric shock.



Use the correctly rated breaker or fuse.

- There is risk of fire or electric shock.



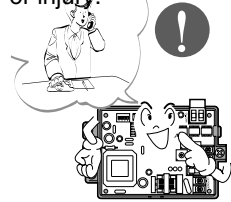
Do not install, remove, or re-install the unit by yourself (customer).

- There is risk of fire, electric shock, explosion, or injury.



For installation, always contact the dealer or an Authorized Service Center.

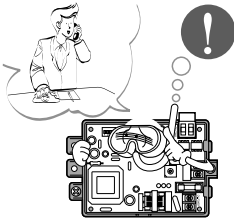
- There is risk of fire, electric shock, explosion, or injury.



■ Operation

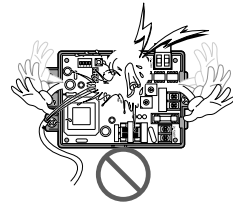
When the product is soaked (flooded or submerged), contact an Authorized Service Center.

- There is risk of fire or electric shock.



Be cautious that water could not enter the product.

- There is risk of fire, electric shock, or product damage.

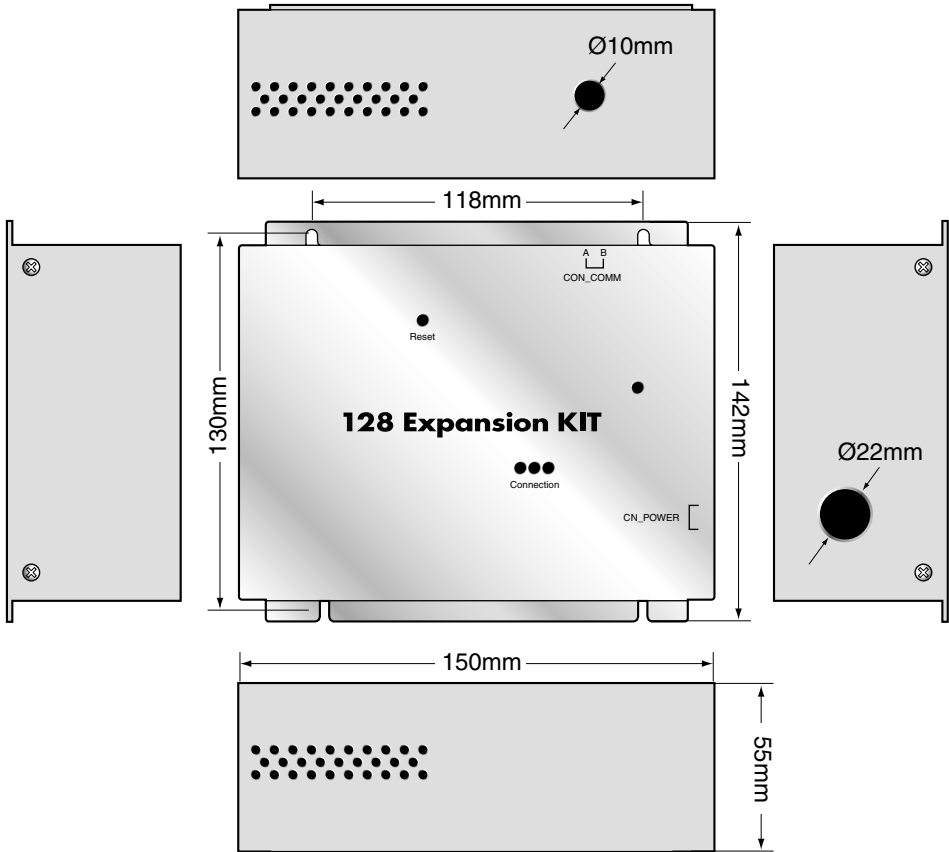


Introduction of AC Smart 128 Expansion Kit

AC Smart 128 Expansion Kit is a device that is connected to AC Smart. AC Smart can basically control maximum of 64 units. When the AC Smart 128 Expansion Kit is connected to AC Smart, the number of units that can be controlled by AC Smart is automatically expanded to 128 units.

Exterior of AC Smart 128 Expansion Kit

AC Smart 128 Expansion Kit is composed as follows.



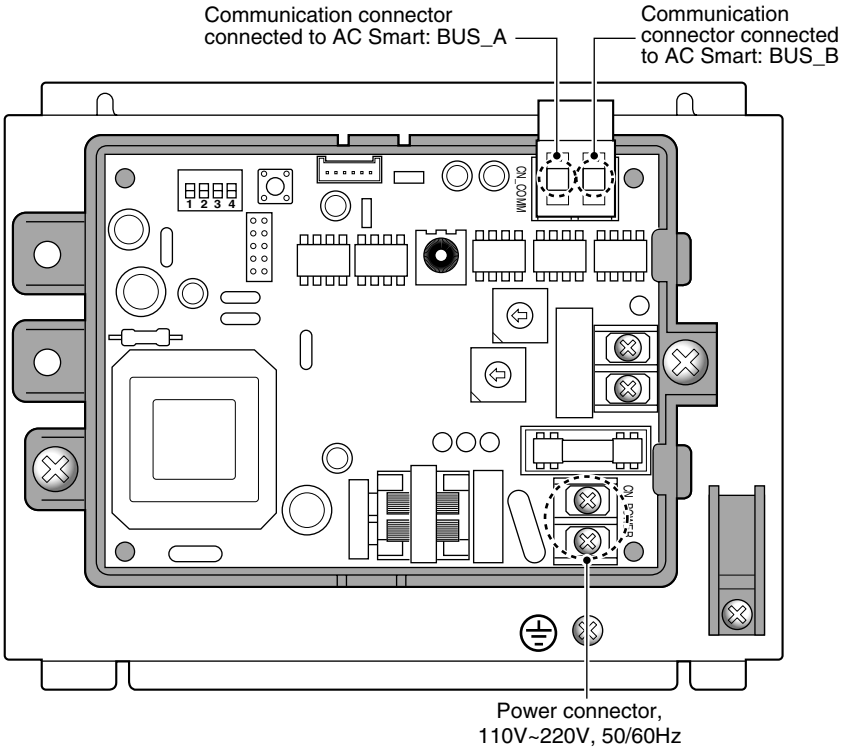
CON_COMM

RS485 communication cable connector connected to AC Smart, communication cable : Shielded cable of 0.75mm² or above

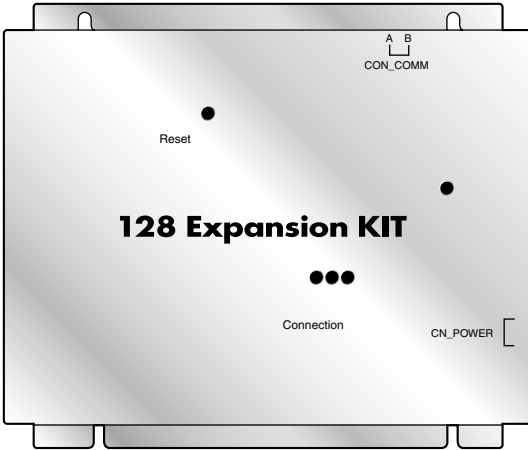
CN_POWER

Power supply, 110~250V, 50/60Hz

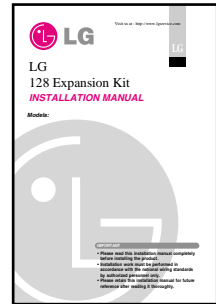
Interior of AC Smart 128 Expansion Kit



The following components are included in the AC Smart 128 Expansion Kit box. Open the box and check whether all applicable components are included.



AC Smart 128 room expansion kit



Installation manual

Installation of AC Smart 128 Expansion Kit

This chapter describes the installation method to use AC Smart 128 Expansion Kit.

Caution: Installation of AC Smart 128 Expansion Kit



The installation of AC Smart 128 Expansion Kit requires special technology. Therefore, the details of the installation described in this chapter must be implemented by a qualified installation technician.

If you have any question and request related to the installation, request to the service center or the installation service provider authorized by the manufacturer.

To use the AC Smart 128 Expansion Kit, an environment that can enable the communication between AC Smart and the expansion kit must be established.

Install the unit in the following order to use the AC Smart 128 Expansion Kit.

STEP 1. Check environment before installing the AC Smart 128 Expansion Kit

Check the network composition of the AC Smart and outdoor unit before installing the AC Smart 128 Expansion Kit.

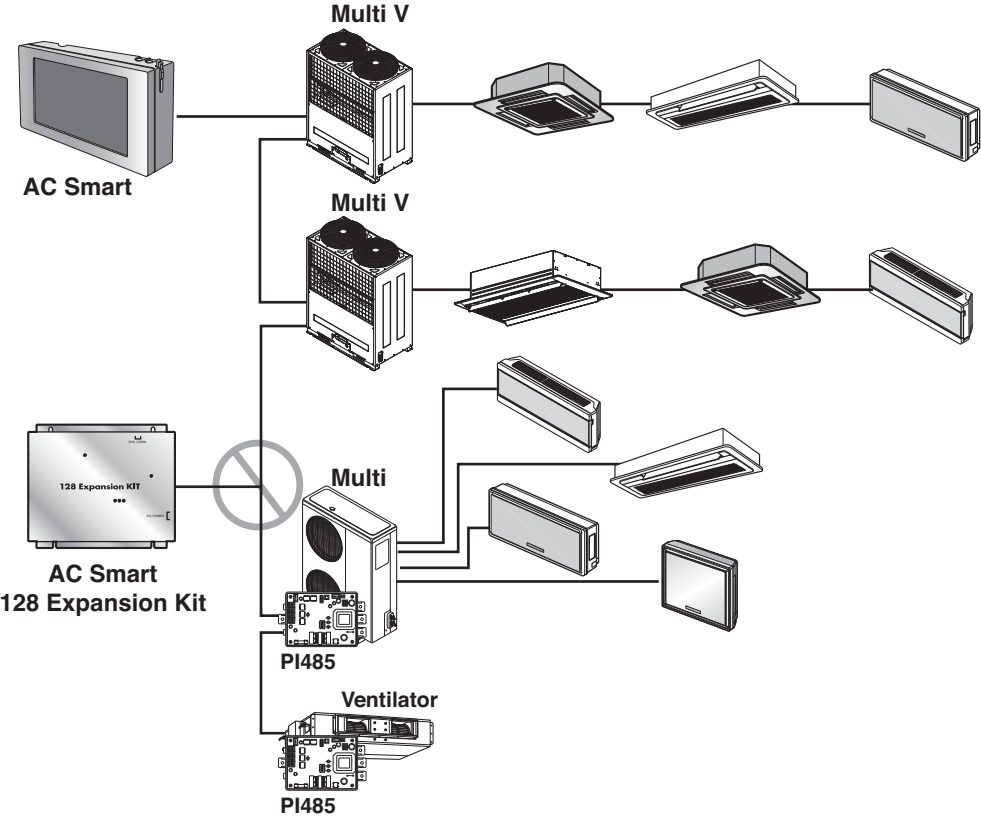
STEP 2. Check the communication cable connection with AC Smart and the connection.

Connect the AC Smart 128 Expansion Kit and AC Smart and check whether the connection is properly done.

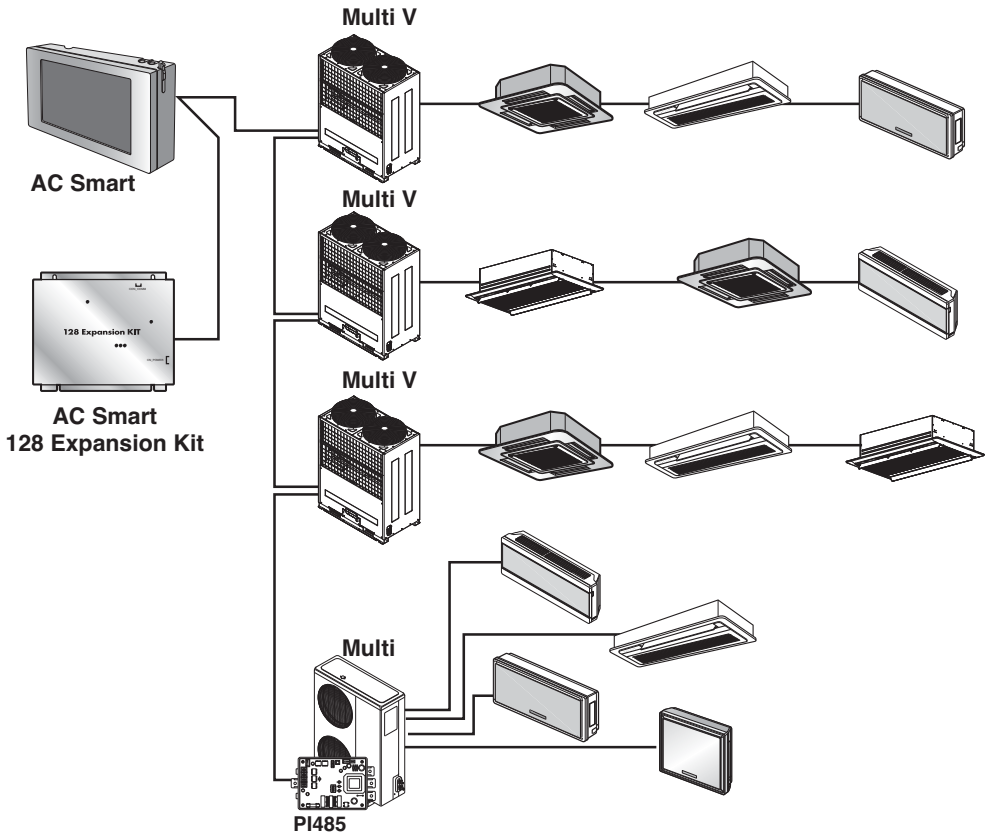
Before installing AC Smart

AC Smart 128 Expansion Kit and AC Smart must be connected in parallel connection with bus communication method.

The following picture shows the incorrect star connection.



Below picture shows the bus method connection diagram based on normal installation. Connect as follows.



Installation of AC Smart 128 Expansion Kit and line connection

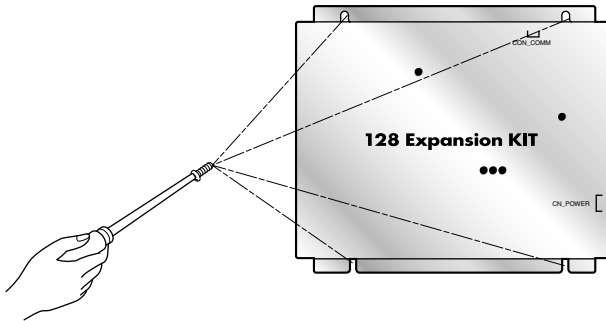
After installing AC Smart, you must connect the RS485 line to communicate with AC Smart 128 Expansion Kit.

To install the AC Smart 128 Expansion Kit and connect the line, proceed as follows.

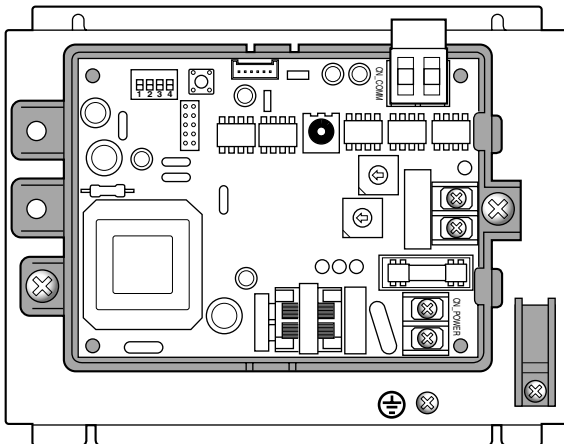
Reference: Installation of AC Smart 128 Expansion Kit

AC Smart 128 Expansion Kit is basically designed to be installed on the wall. Here, the installation method of installing on the wall is described as an example.

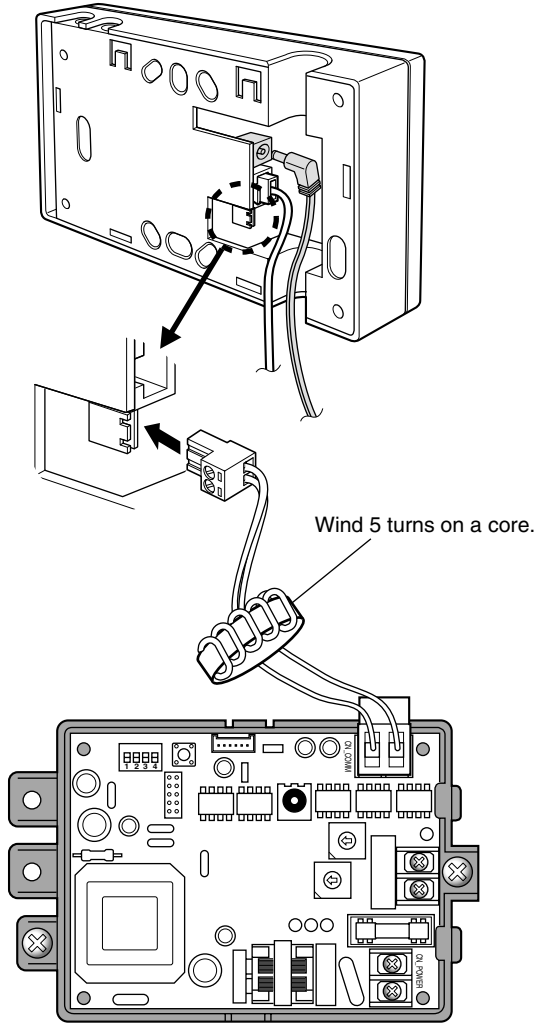
1. Decide the space to install the AC Smart 128 Expansion Kit. Before installing the unit, check whether the location is appropriate to connect AC Smart with RS485 line.
2. Fixate the AC Smart expansion kit to the wall. Use the driver to tighten the unit against the wall.



3. Use the driver to loosen the screws on the side of the case of AC Smart expansion kit.



4. Connect the RS485 line between A on the rear panel of AC Smart and BUS_A of the expansion kit, and then connect to B on the rear panel and BUS_B.



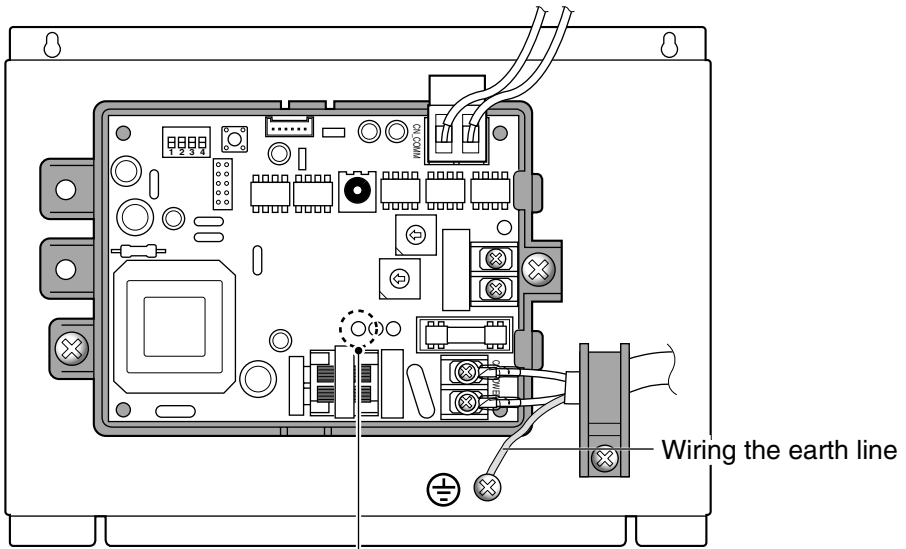
Caution: RS485 communication cable connection



Because the polarity exists for the connection of RS485 communication cable, be careful not to mix the connection of two cables.

The installer must wind the communication line 5 turns on the provided core as shown above figure.

5. Connect the power of AC Smart and power of AC Smart 128 Expansion Kit. After connecting the power, check whether the red LED of the AC Smart 128 Expansion Kit is turned on. When the red LED is turned on, it is normally connected.



Red LED: Shows the connected condition with AC Smart

6. Assemble the case of AC Smart 128 Expansion Kit.
7. Use the system setting function of AC Smart to register the system information of the 128 units.

Caution: In case of 251 error



When the connection of AC Smart 128 Expansion Kit to AC Smart is disconnected after connecting the AC Smart 128 Expansion Kit, more than 64 units among the units of AC Smart will generate 251 error. In this case, check the connection between AC Smart and expansion kit.

