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LG PMNFP14A0
Owner's Manual

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LG

LG
PI485 for Outdoor Unit
INSTALLATION MANUAL

Models: PMNFP14A0
PMNFP14A1
PGNFP14A0

ENGLISH
ITALIANO
ESPAÑOL
FRANÇAIS
DEUTSCH
CHINESE

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

ENGLISH

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.

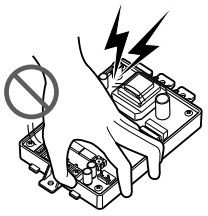
⃠	**Be sure not to do.**
❗	**Be sure to follow the instruction.**

⚠WARNING

■ Installation

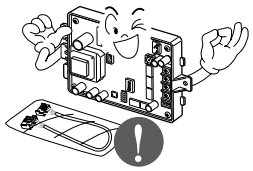
Don't touch with the hands while the power is on

• 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.

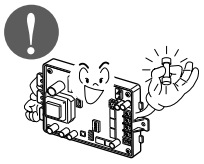


For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.

• 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.

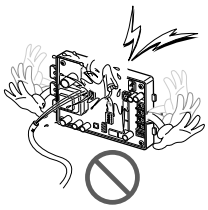
■ Operation

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.



Part Description

PMNFP14A0 / PMNFP14A1 / PGNFP14A0

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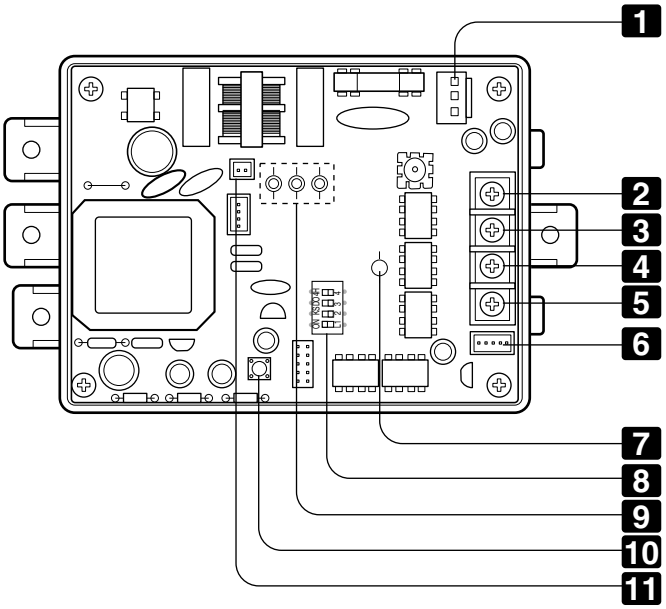


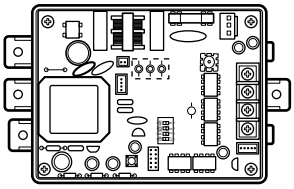
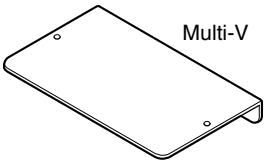
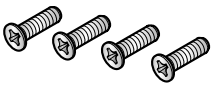
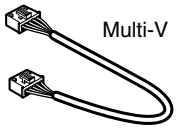
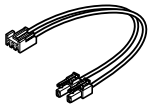
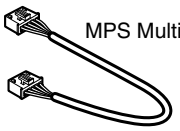
✻ The location of parts might be different in case of PMNFP14A1.
PMNFP14A0 : For connecting 1 ~ 16 Indoor Units
PMNFP14A1 : For connecting 1 ~ 48 Indoor Units
PGNFP14A0 : For connecting only base controller

PI485 GATEWAY(M)

1 CN_PWR: AC 220V Connector
2 +10V: DC 10V Terminal
3 GND: Ground
4 BUS_A: *RS-485 (+) Terminal
(Refer to note)
5 BUS_B: RS-485 (-) Terminal
6 CN_OUT: Outdoor Unit Connector
7 LED1:RS-485 Status LED
8 DIP Switch: Product Selection (Refer to the 「DIP Switch Configuration」)
9 LED01G, 02G, 03G: Communication Status LED
10 Reset Switch: PI485(M) Reset
11 CN_DRY: DRY Contact

* **Note** : RS-485 is one of the international interface standards for serial communication.

Acceassory Parts

 PI485 : PMNFP14A0(1EA) or PMNFP14A1(1EA) or PGNFP14A0(1EA)	 BRACKET (1EA)	 SCREW (4EA)
 WIRE ASSY 1(1EA)	 WIRE ASSY 2(1EA)	 WIRE ASSY 3(1EA)

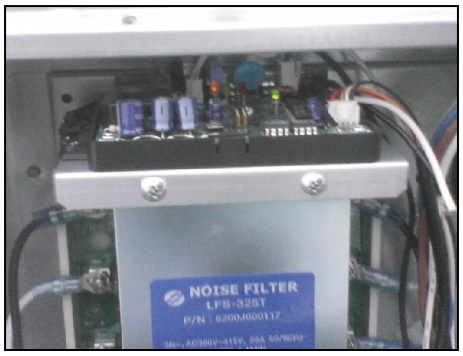
Others : Tie Wrap (3 EA) - Cable Tie
Clamp (1 EA)

Installation Guide

ENGLISH

Installation Steps

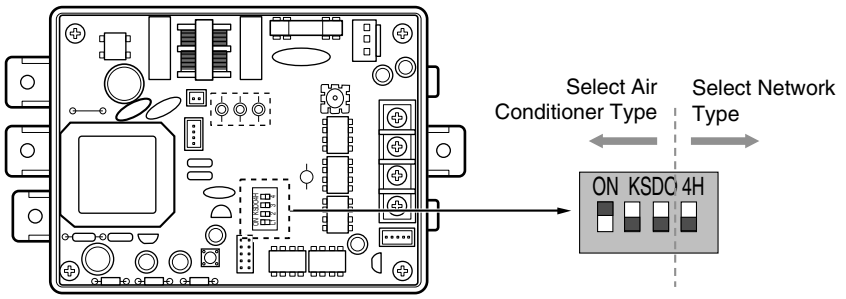
1. 6 Connect CN_OUT with Outdoor Unit by the cable (provided)
2. 4 5 Connect RS-485 BUS_A(+) and BUS_(B)(-) with other network products (ex. Central Controller , I-Gateway.....)
3. 2 3 In case of using Simple Central Controller, connect VCC(+10V) and GND. No need to connect otherwise.
4. 8 Select DIP Switch Configuration(Refer page 8)
5. 1 Connect CN_PWR with Outdoor PCB Power connector (Refer page 9, 10)
6. After Power is ON, check the Communication LED 9
   - LED1G(Red)
     - Normal : LED blinks for 5 times and then gets OFF
       This process is repeated after every 3 minutes
     - Error : Check the Indoor Unit's address & wiring connections
   - LED2G(Yellow), LED3G(Orange)
     - Normal : LED blinks continuously
     - Error : Check the DIP Switch setting & wiring connections
7. 7 Check RS-485 Communication Status LED:
   - Normal : LED's blinks 2 times in every 10~30 seconds
   - Error : Check the wiring connections
8. Finally if all of the above steps are OK, then tie the cables by tie wraps & clamp



* Example about Multi V plus

CAUTION:
Install the PI485 on the Noise Filter in Multi V plus.
Install the PI485 after checking the hole for screw.

DIP Switch Configuration



* LGAP : LG Air conditioner Protocol

Multi V & Multi(LGAP applied) products Configuration Methods

1 ON, All others OFF: Multi V products(Except CRUN products) or Multi(Non-Inverter) Product applied Common PCB(Refer to NOTE) or Multi(Inverter) Product + Central Controller(All types) - Without LGAP

1 and 4 ON, All others OFF: Multi V products(Except CRUN products) or Multi(Non-Inverter) Product applied Common PCB or Multi(Inverter) Product + Central Controller(All types) - Using LGAP

2 ON, All others OFF: Multi(Non-Inverter) Product + Centroller(All types) - Without LGAP

2 and 4 ON, All others OFF: Multi Non-Inverter Product + Central Controller(All Types) - Using LGAP

1,2,3,4 ON : Multi V CRUN Product + Central Controller(All types) - Using LGAP

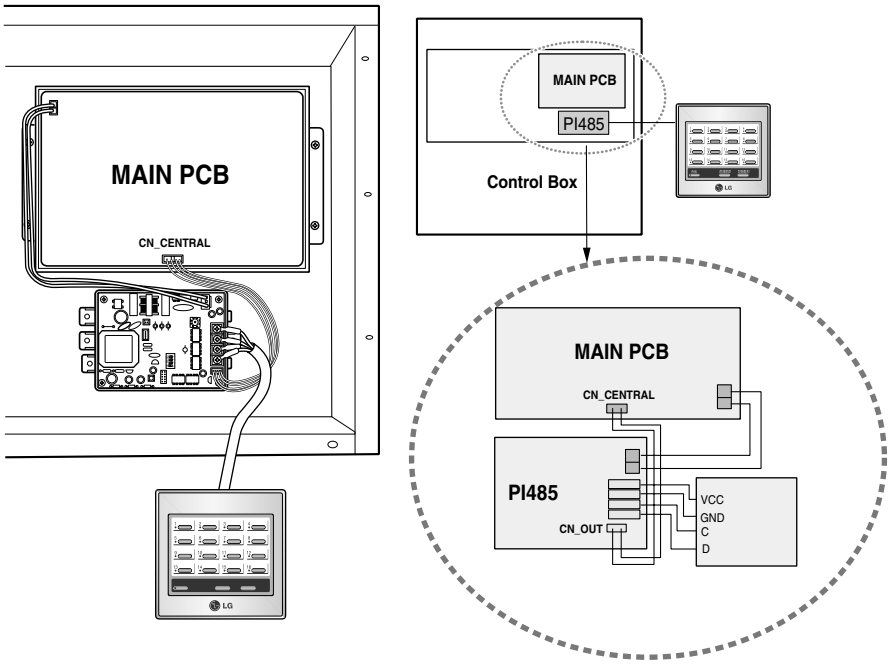
* Please refer the corresponding Central Controller installation manual if you want to know whether your Central Controller is compatible with LGAP or not.

CAUTION:
The wrong setting of air-conditioner switch could cause malfunctioning.
Switch setting must be done carefully.
Push the Reset button after changing the Dip switch.

NOTE: Multi(Non-Inverter) Product applied Common PCB
PCB P/NO. : 6871A20917*
P/NO. : 6871A20918*
P/NO. : 6871A20910*

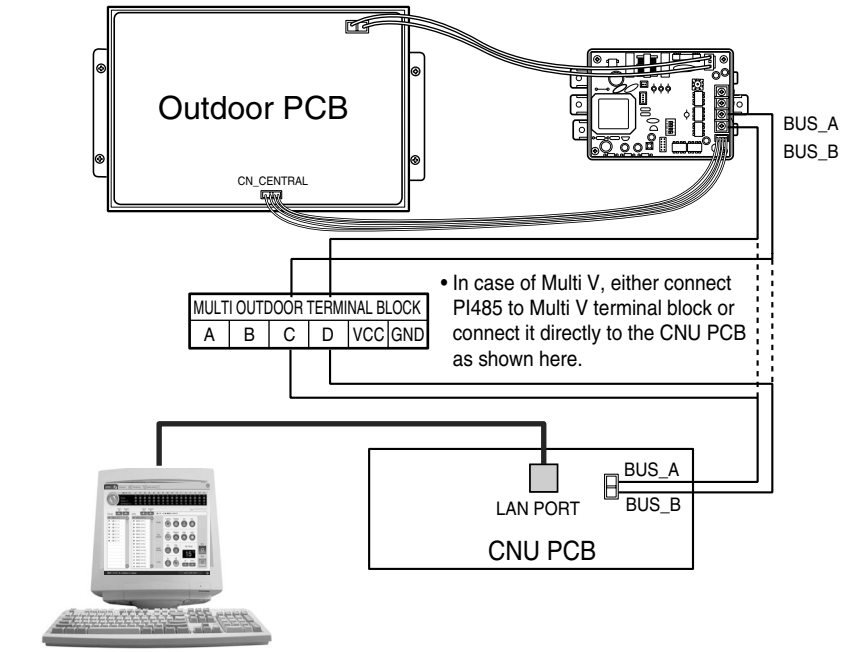
Simple Central Controller - Connection Diagram

ENGLISH



CAUTION:
After product installation, tie the cables with Clamps & Tie-Wraps provided.
Check the right connection of each BUS A and BUS B.

PC/ Deluxe Central Controller - Connection Diagram



PC / Deluxe Central Controller

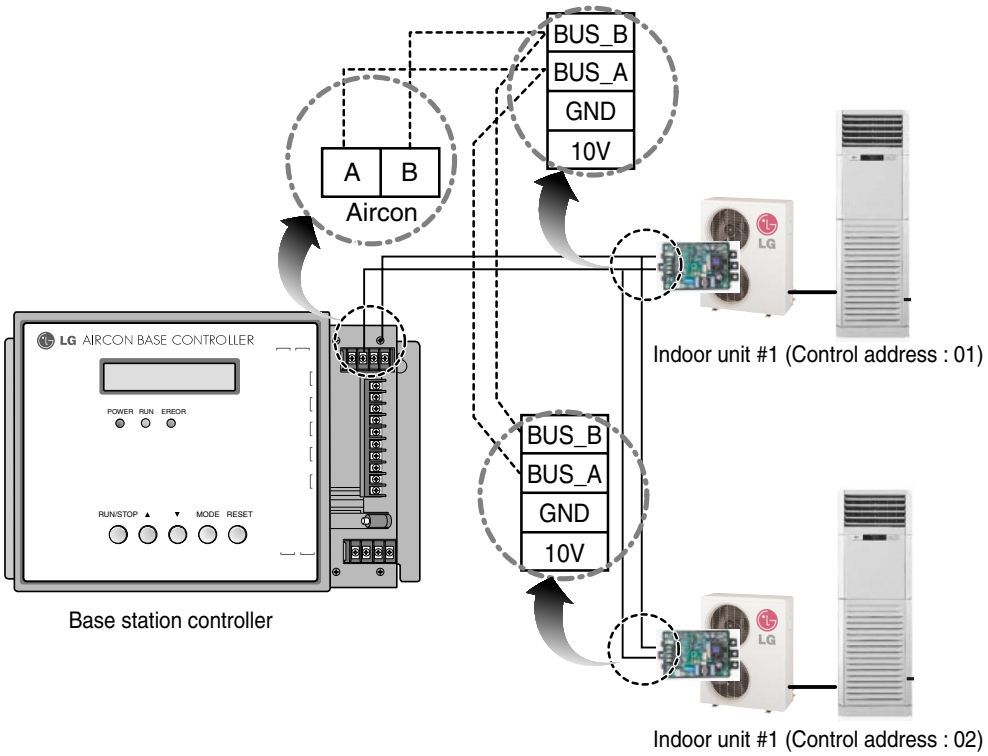
CAUTION:
After product installation, tie the cables with Clamps & Tie-Wraps provided.
Check the right connection of each BUS A and BUS B.

ENGLISH

How to connect the base station controller

• PGNFP14A0 (Only)

Connecting the PI 485 communication line



[Steps to connect]

***Note**: See the PI 485 manual for the internal setting.
***Note**: Because the RS485 communication line connecting to the PI 485 has polarity, check A and B. PI485

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After reading this manual, keep it in a place easily accessible to the user for future reference.