# LG
# PI485 GATEWAY

## INSTALLATION MANUAL

Model: PSNFP14A0

For use with ERV product in USA and select other LG Products that do not have on-board LGAP communications module.

**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.

# TABLE OF CONTENTS

# 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 instructions 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 product damage. |

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

| 🚫 | Do not complete the action. |
|---|---|
| ❗ | Be sure to follow the instruction. |
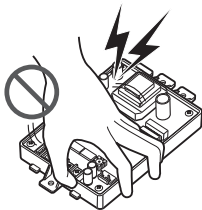
## ⚠ WARNING
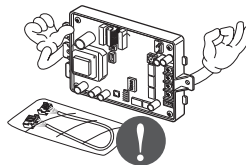
■ Installation

| Do not touch touch the product with your hands while electricity is on. | Use standard parts(connector). | For electrical work, contact the dealer, seller, a qualified electrician, or an authorized service center. |
|---|---|---|
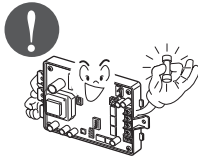
There is a risk of fire or electric shock if you touch the product with your hands while the electricity is on.

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

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

| Use the correctly rated breaker or fuse. | Do not install, remove, or re-install the unit by yourself (customer). | For installation, always contact the dealer or an authorized service center. |
|---|---|---|
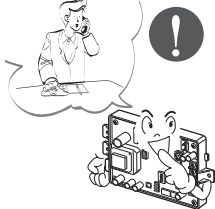
There is a risk of fire or electric shock if the correctly rated breaker or fuse is not used.

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

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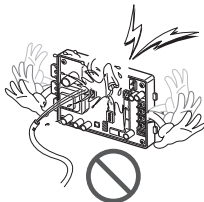
■ Operation

| When the product is soaked (flooded or submerged), contact an authorized service center. | Be cautious, water should not enter the product. |
|---|---|
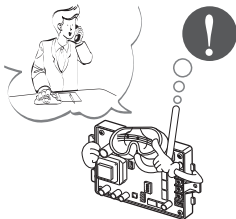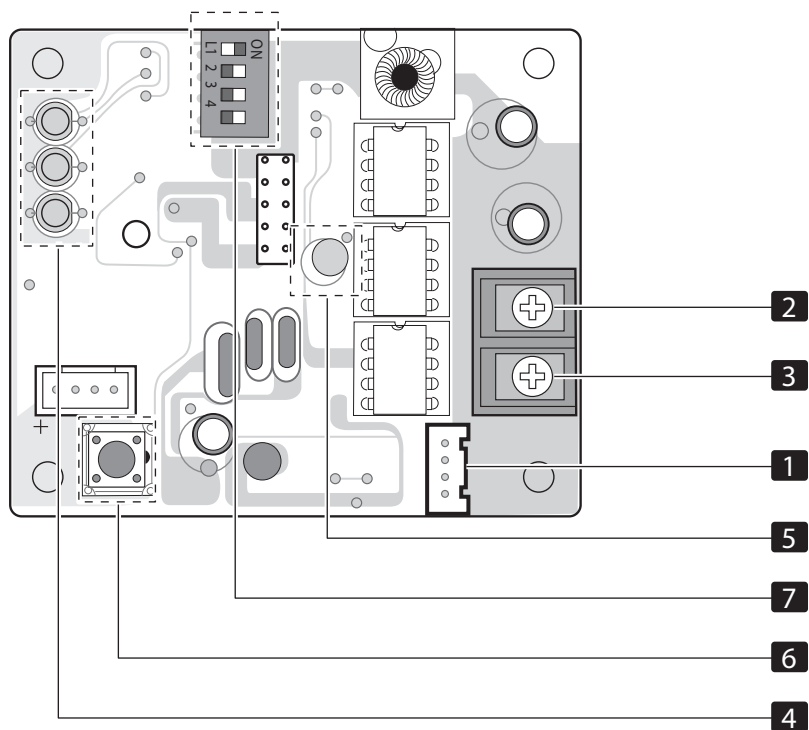
There is risk of fire or electric shock.

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

## PSNFP14A0



PI485 GATEWAY(R)

1️⃣ CN_OUT: Indoor Unit Connector

2️⃣ BUS_A: RS-485 (+) Terminal

3️⃣ BUS_B: RS-485 (-) Terminal

4️⃣ LED01G,02G,03G: Communication Status LED

5️⃣ LED1: RS-485 Communication Status LED

6️⃣ Reset Switch: PI485(C) Reset

7️⃣ DIP Switch: Product Select (Refer to page 7)
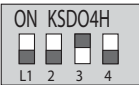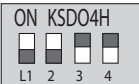
# Installation Guide

## Installation Steps

1. **7** Select DIP Switch Configuration (Refer to page 7)

2. **2** **3** Connect The RS-485 BUS_A(+), BUS_B(-) with other network products (ex. Simple Central Controller , CNU, etc.)

3. **1** Using the provided cable, connect CN_OUT with outdoor unit

4. **4** Check the Communication Status LED

   - LED01G(Red): Ok operation - The LED blinks 5 times and is OFF.
     This process is repeated every 3 minutes
     • NG operation : Check the indoor unit address and wiring connections

   - LED02G(Yellow), LED03G(Orange): Ok operation- The LEDs blink continuously
     • NG operation : Check the DIP Switch setting and wiring connections

5. **5** Check the RS-485 Communication Status LED:

   ■ Ok operation

      (1) If connected to a CNU, LEDs blink 2 times every 10~30 seconds

      (2) If connected to a simple central controller, LEDs blink continuously

   ■ NG operation : Check the wiring connections

6. If the above steps are Ok, tie the cables using tie wraps and clamp

Switch 3
Select Product Type

Switch 4
Select Network Type

ON KSDO4H

L1   2   3 | 4

Example of All Off

Raised portion (darker area) of switch
is downward next to number
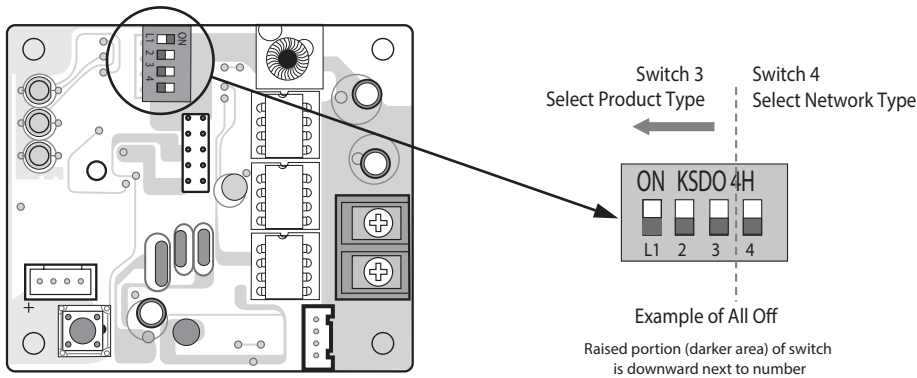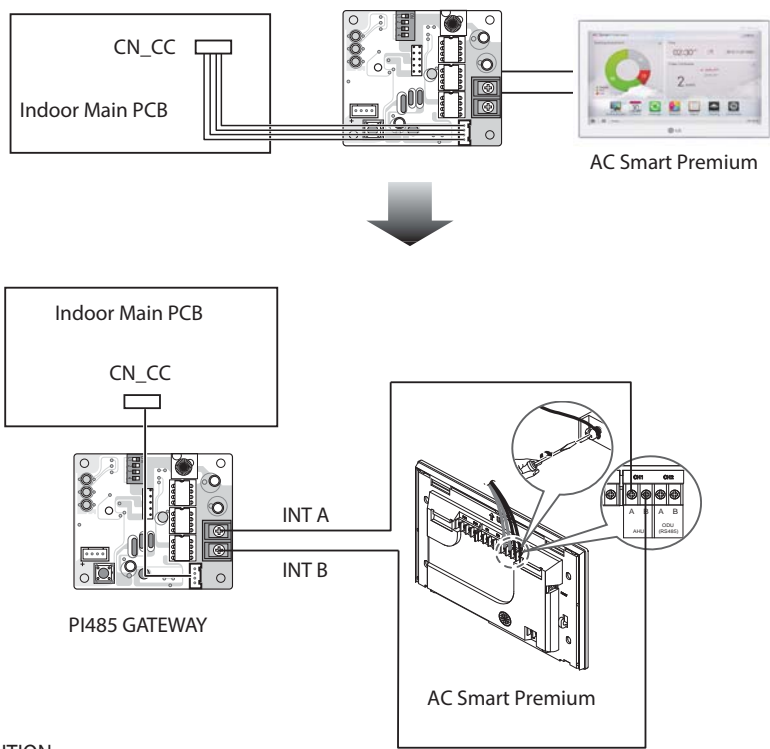
Using LGAP CAC/RAC/SRAC/PAC Products Configuration Methods



ON KSDO4H

L1  2  3  4

➡  1 OFF, 2 OFF, 3 ON, 4 OFF: LGAP CAC/RAC/SRAC/PAC Products + Central
controller (all types) - without LGAP



ON KSDO4H

L1  2  3  4

➡  1 OFF, 2 OFF, 3 ON, 4 ON: LGAP CAC/RAC/SRAC/PAC Products + Central
controller (all types) - using LGAP

⚠ CAUTION:
Incorrect product configuration will lead to product malfunction.

CN_CC

Indoor Main PCB

AC Smart Premium

Indoor Main PCB

CN_CC

INT A

INT B

PI485 GATEWAY

AC Smart Premium

⚠ CAUTION:
After product installation, secure the wiring with tie wraps (provided).

## Installation Example
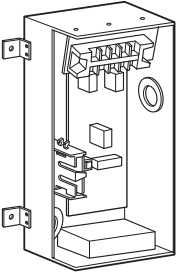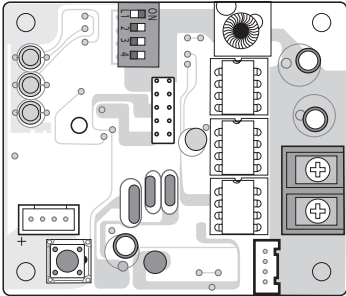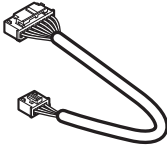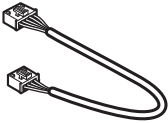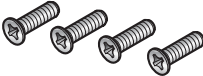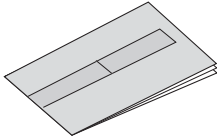
Installation for ducted units

⚠️ CAUTION:
Installation instructions may differ based on the product.

# Accessories

| | | |
|---|---|---|
| | Connector for use with ERV | Connector for other product |
| | Screws (4 EA) | Installation Manual |
| PCB :6871A20484C | | |

Other Included Items: Tie Wrap (3 EA) - Cable Tie Clamp (1 EA)

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