LG
Life's Good

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中文
العربية

# INSTALLATION MANUAL

# V-NET

- Please read this user/installation manual completely before installing the product.
- Usage/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.

TYPE : Simple Dry contact

MODEL : PDRYCB000

P/NO : MFL67708303

www.lg.com

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ENGLISH

# 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.

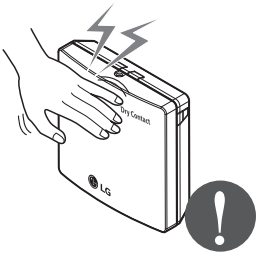
| | |
|---|---|
| ⃠ | **Be sure not to do.** |
| ❗ | **Be sure to follow the instruction.** |

## ⚠WARNING

### ■ Installation

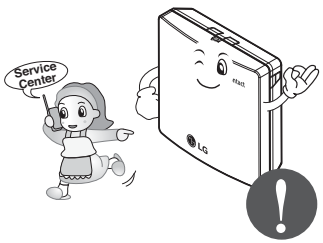
**Don't touch with the hands while the power is on.**

• Cause fire, electric shock, explosion or injury.



**Product installation must be referred to a service center or installation shop.**

• Cause fire, electric shock, explosion or injury.



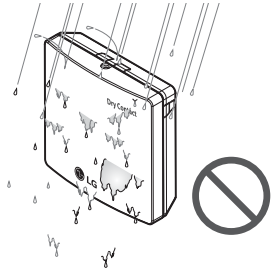

**Request installation from installation shop or service center when reinstalling the product.**

• Cause fire, electric shock, explosion or injury.



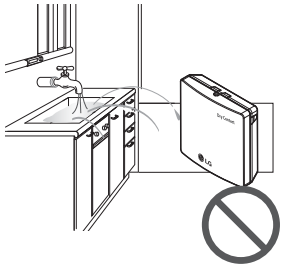
**Do not install the product in the place where rain can get to the product.**

• Cause product failure



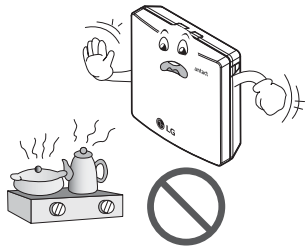
**Do not install the unit in humid locations.**

• Cause product failure



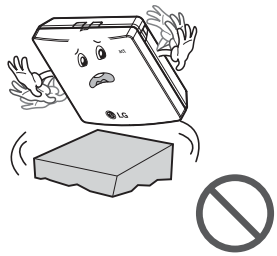
**Do not put the product closer to fire.**

• Cause fire



**Do not install in a place that cannot withstand the weight of the product.**

• The product may get damaged or may break.



**Do not install the product to a place that generates oil, steam, salt, sulfuric gas, etc.**

• Cause the product's deformation or failure.



**Use standardized Product.**

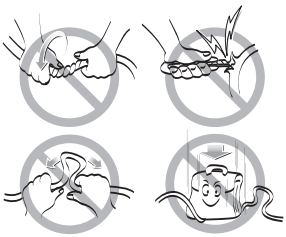
• Cause product failure




## ■ Operation

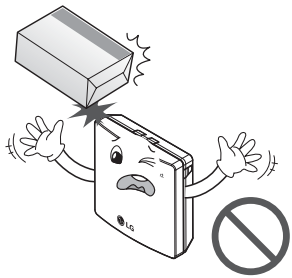
**Do not change or extend power lines arbitrarily.**

• Cause fire or electric shock.



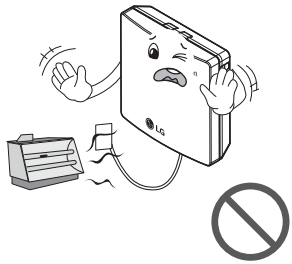
**Do not give a shock to the product.**

• If you give a shock to the product, it may cause the product's failure.



**Do not use a heater near the power line.**

• Cause fire or electric shock.



**Do notspill water inside of the product.**

- Cause electric shock or breakdown.



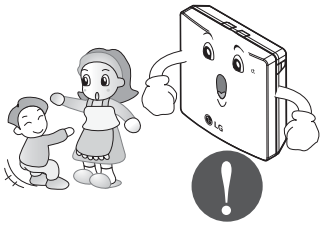
**If the product has been inundated, you must refer to a service center or installation shop.**

- It can cause a fire.



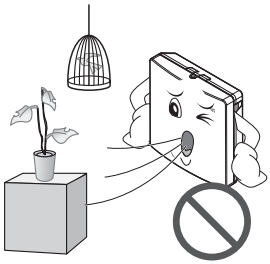

**Children and elderly use the product under the guardian's supervision.**

- Cause accidents and product failures.



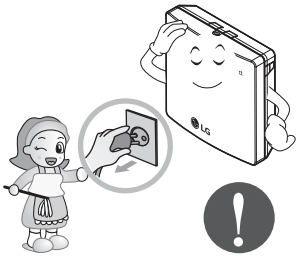
**Do not use for special purpose / place such as conserving flora and fauna, precision instruments, art.**

- Otherwise, it can cause property damage.



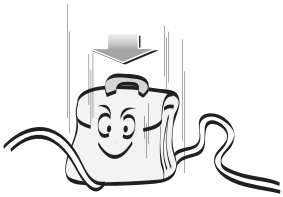
**Remove the power plug when cleaning.**

- Cause fire or electric shock.



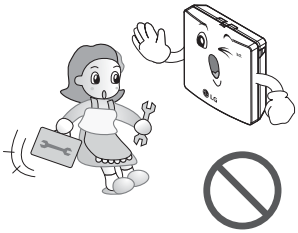
**Do not place heavy objects on the power line.**

- Cause fire or electric shock.



**Do not disassemble, repair, or modify the product.**

- Cause fire or electric shock.



**Do not touch with wet hands.**

- Cause fire or electric shock.



# Overview

LG Dry Contact is a solution for automatic control of air conditioning system at the owner's behest.

In simple words, it's a switch which can be used to turn the unit On/Off after getting the signal from external sources like key-in lock, door or window switch etc specially used in Hotel rooms.

It's a small PCB that either can be fit inside the control box of Indoor unit or can be outside the unit in a plastic case if there is no sufficient space inside the Indoor unit.

Apart from simple installation, it can also be linked to Central Controller via Indoor unit PI485 pcb. For this, all connecting wires & an additional small pcb for looping is also provided along with Dry Contact.

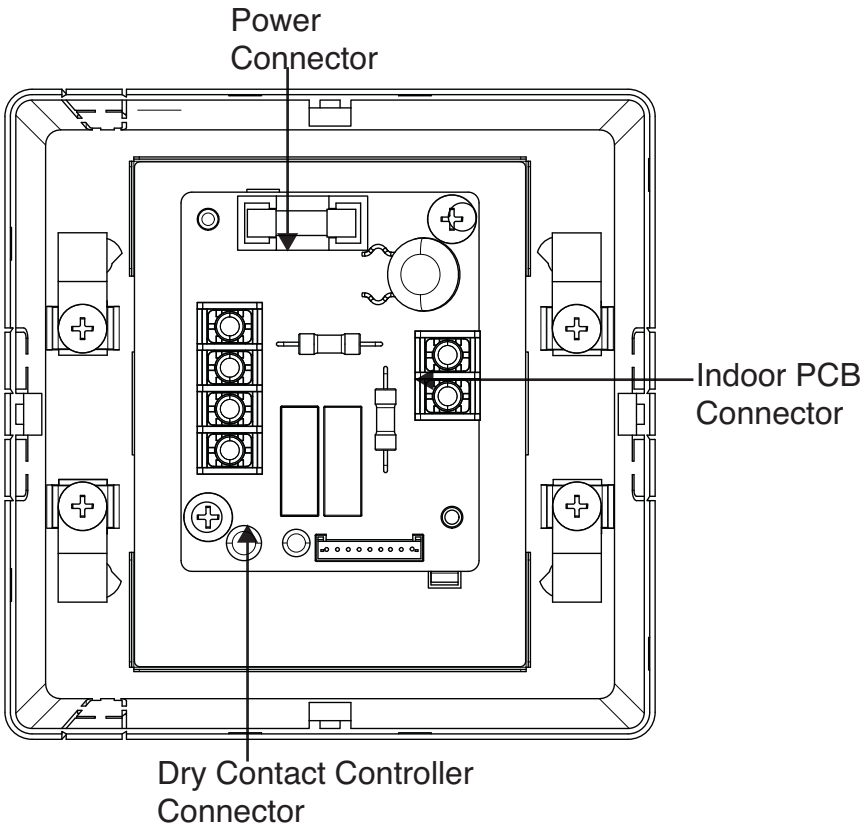
Dry Contact can be used in two ways.

1. It can be used to actually turn On/Off the system on receiving the signal from the source.
   In this case, user doesn't need to use remote controller anymore to turn On/Off the system.
   However all the further settings like temperature, fan speed, mode etc can be done through remote controller only.
2. Other way is almost similar as above but in this case, after getting the On signal from the external source, user has to turn On the system from remote controller only. Dry contact just activates the system.
   However system can be turned Off directly from the external source. So only On mode is different here.

So in both of above conditions, system can't be operated without signal from external source which prevents unnecessary use of system & facilitates its operation only when its required.

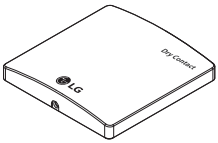
These settings can be selected from the remote controller whose details have been explained in the later part of this manual

So depending upon the requirement, Dry Contact offers a variety of applications to suit the customer's requirement in the best possible way.

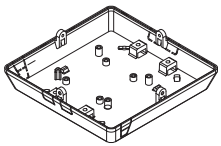

Power
Connector
Indoor PCB
Connector
Dry Contact Controller
Connector

# Part Description

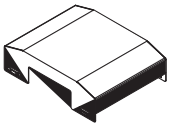
## PDRYCB000 (PCB + Case)



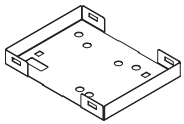

Front Case



Rear Case



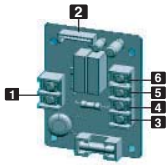
Metal Case (Front)



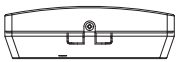
Metal Case (Rear)



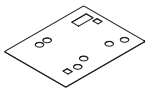
Rubber




PCBA



Side



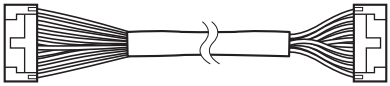
Isolation Sheet

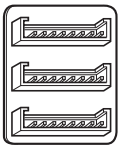
1. CN-POWER : Connector
2. CN-CC : Indoor PCB Connector
3. CN_DRY (L) : DRY CONTROLLER Connector
4. CN_DRY ( SIG ) : DRY CONTROLLER Connector
5. CN_DRY (ERROR CHECK) : ERROR Check Display Connector
6. CN_DRY( OPER STATE): Operation Display Connector

## Accessory

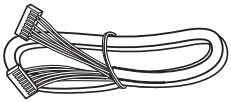


**Cable 1EA**
**(for Central controller)**

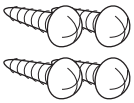




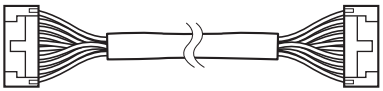
**Connecting PCB**
**(6871A30056A)**
***for Central Controller**



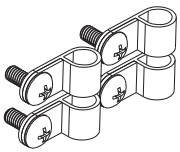
**Cable 1EA**
**(for connecting with indoor unit)**



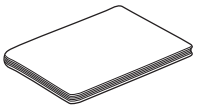
**Screw**
**(For installation, 4EA)**



***Note**
- These cable using for connection between Dry contact and Indoor unit.
- So before using these things Please check the connector type first and use cables on proper indoor unit.



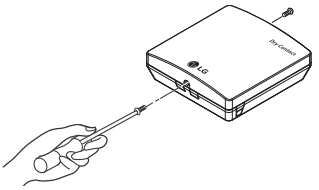
**Clamp**
**(For installation, 4EA)**



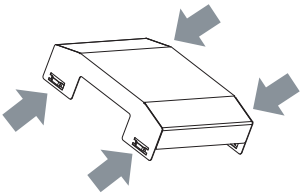
**User/Installation**
**Manual**

## Installation

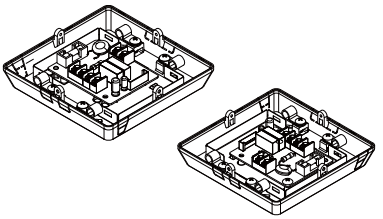
1) Loosen and remove two screws that secures the product.



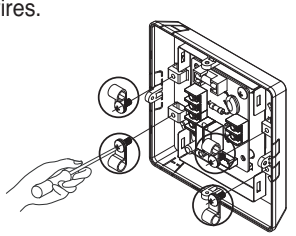
2)Remove the front metal case by pressing the marked points.



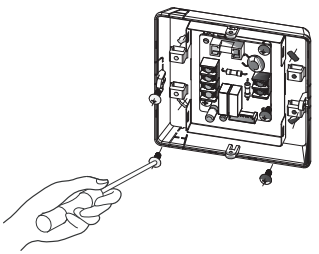
3) Position the rear case to the direction (left or right) towards to the connector



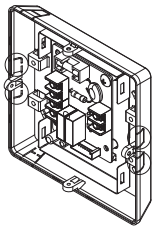
4)Remove 4 screws, for strapping wires.



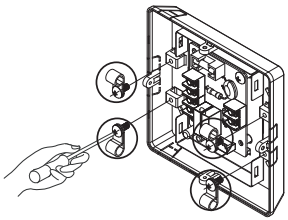
5) Secure the rear case on the installation place using the supplied fixing screws.



6) Remove knock out shapes on the rear case (2-sided) according to the connector's size and direction.



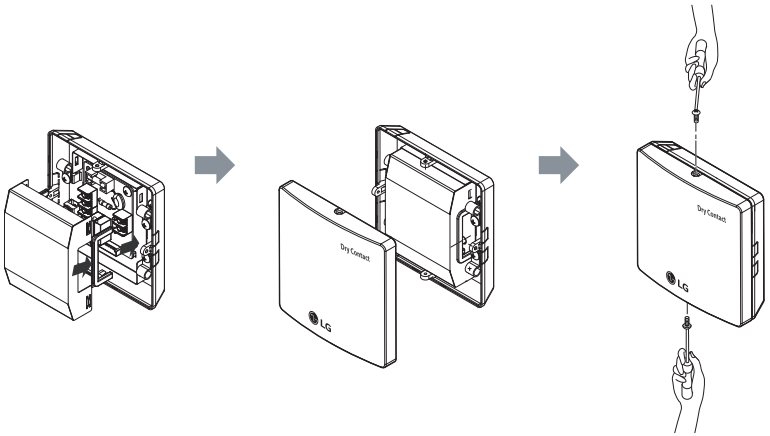
7) Connect the connection wires properly according to the connection. When connecting CN-POWER and CN_DRY(L) to the power cable in the terminal block, make sure to put them inside the square hole of the Clamp as shown in the picture.



8) Set the switch according to the setting method. (Refer to the instruction)

9) Combine top part of the metal case with the back side of the metal case.

10) Hang the front of the case to the rear case hook and tighten the fixing screws on the bottom part.



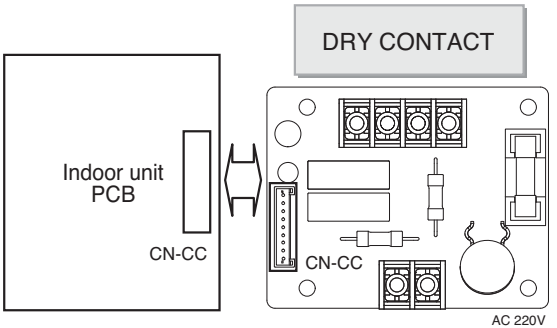

## ⚠ CAUTION

1. Install the product on flat surface and install anchoring screws at more than 2 places. Otherwise the central controller may not be anchored properly.
2. Do not tighten anchoring screws too tightly. It may cause deformation of the case.
3. Do not deform the case at random. It may cause malfunction of the central controller.

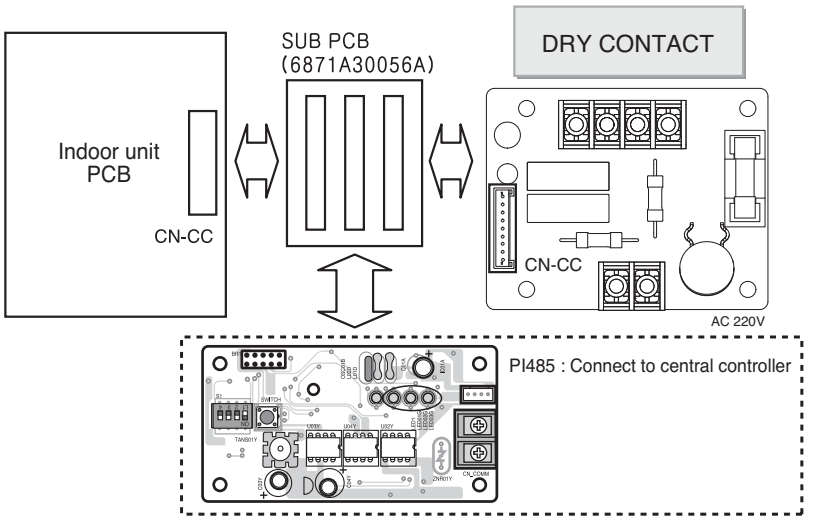
# Installation Guide

## Step 1

Connect CN-CC with Indoor PCB by the cable(provided)
- Connection of Dry contact only




- Connection of Dry contact & LG Central Controller in case of single constant models.

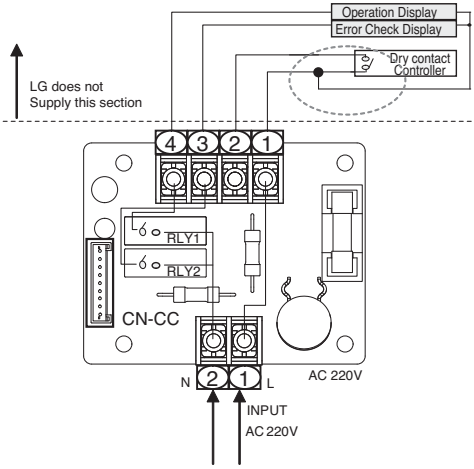



* Single Only
- When you install single product this PCB have to add.

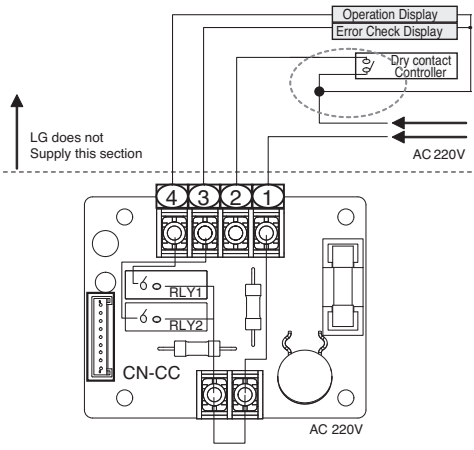
## Step 2

Connect CN_DRY with Control Unit .
(Fix SUB PCB into the proper location.)

- To apply power source through PCB



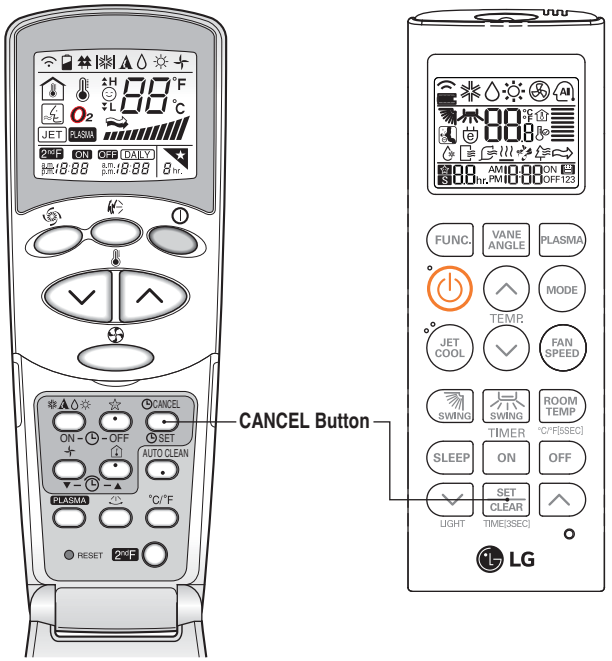

- To apply power source directly to external source



# Administrator Guide

## * Function

It gives selection whether to turn ON the unit directly or not from the external source.
The selection can be made by pressing CANCEL button of the wireless remote controller 3 times within 3 minutes of resetting the unit with facing it towards the unit.
(This function availability depends on indoor unit model)




1. **To turn ON the unit directly from the external source**
2. **Not to turn ON the unit directly from the external source. Only to activate the system.**

***Note**

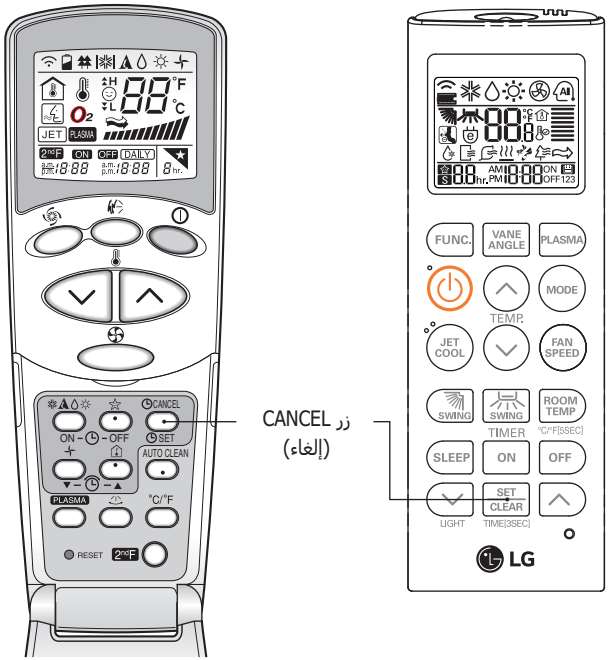
This function(Dry contact mode setting) doesn't work in some wired remote controller.
For more information, please refer to manual of wired remote controller.

**If the power gives out, the Air conditioner may be run to before state after power returns because Air conditioner's function of interruption of electric power compensation.**

# دليل المدير

## * الوظيفة

يمنح الاختيار بين تشغيل الوحدة مباشرة أو عدم التشغيل من المصدر الخارجي.
يمكن الاختيار عن طريق الضغط على زر إلغاء في جهاز التحكم عن بعد اللاسلكي 3 مرات خلال 3 دقائق من إعادة ضبط الوحدة مع ضبط الاتجاه نحو الوحدة.
(يتوقف توافر هذه الوظيفة على موديل الوحدة الداخلية)




1. لتشغيل الوحدة من المصدر الخارجي مباشرة
2. عدم تشغيل الوحدة من المصدر الخارجي مباشرة. لتنشيط النظام فقط.

*** ملاحظة**

هذه الوظيفة (ضبط وضع التلامس الجاف) لا تكون متاحة مع بعض أجهزة التحكم عن بعد اللاسلكية.
لمزيد من المعلومات، يرجى الرجوع إلى دليل جهاز التحكم عن بعد السلكي.

**إذا انقطعت الكهرباء، يمكن أن يتم تشغيل جهاز تكييف الهواء على الحالة السابقة بعد رجوع التيار الكهربائي بسبب وظيفة التعويض عن انقطاع التيار الكهربائي في جهاز تكييف الهواء.**