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INSTALLATION MANUAL

AIR CONDITIONER

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.

TYPE : V-NET (Dry contact for demand control)
MODELS : PQDSBCDVM0

P/NO : MFL42540239

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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.

⚠ WARNING

During installation

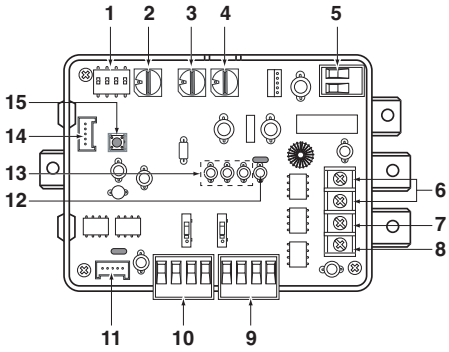
- Do not touch the board when the power is connected.
- Always request for installation of the product to the service center or the installation service provider.
- When reinstalling the previously installed product, request for service to the service center or the installation service provider.
- Do not install the product where it can be exposed to rain.
- Do not install the product in a humid location.

During use

- Do not modify or extend the power cord.
- Do not use any flaming devices near the product.
- Do not use any heating devices near the power cord.
- Do not pour water inside the product.
- When the product is submersed in water, always request for service to the service center or the installation service provider.
- Make the children and the elderly use the product with the help a guardian.
- Do not give impact to the product.

* Install and use by qualified personnel only.

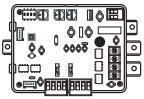
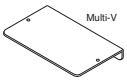
NAME OF EACH PART



Dry contact for DEMAND CONTROL

1. SWDIP : Switch to select main function
2. SW_Address2 : Switch to set a upper address of the outdoor unit
3. SW_Address1 : Switch to set a lower address of the outdoor unit
4. SW_STEP : Switch to select a control mode.
5. CN_PWR : DC Input terminal
6. ERROR : Error display with relay contact
7. BUS-A : RS-485 (+) Terminal
8. BUS-B : RS-485 (-) Terminal
9. CN_CAPACITY : Signal input terminal to control a capacity of outdoor unit
10. CN_SPEED/CAP : Signal input terminal for Analog Input/Low noise operation
11. CN_OUT : Outdoor unit connector
12. LED1 : Display LED for RS-485 status
13. LED01G,02G,03G : Display LED for communication status
14. CN_JIG : Connector for writing program
15. SW1 : Reset switch

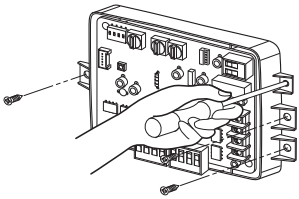
ACCESSORY PARTS

 ODU Dry contact PQDSBCDVM0	 BRACKET (1EA)
SCREW (4EA)	WIRE ASSY 1(1EA)
WIRE ASSY 2(1EA)	

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

INSTALLATION METHOD

1. Connect the connection wires according to the instructions.
   (Please refer to Setting and Using Method)
2. Perform the switch setting according to switch setting method.
   (Please refer to Setting and Using Method)
3. Fix the Dry contact on suitable space inside of the outdoor unit.



CAUTION

Install the product on flat surface and screw at least 2 places. Otherwise the Dry contact may not be anchored properly.

Do not screw too tightly. It may cause deformation of the case.

Do not deform the case at random. It may cause malfunction of the Dry contact.

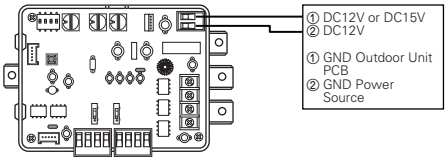
SETTING AND USING METHOD

After change any Dry contact setting, then you must press RESET switch to reflect the setting.

Power source input

① When wiring power source from outdoor unit.

② When using external power source.



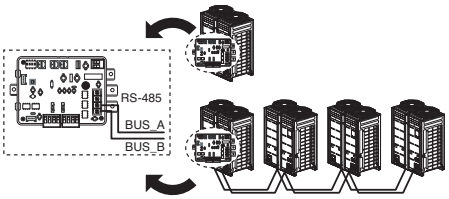
NOTE

This device can accept only DC Power input.

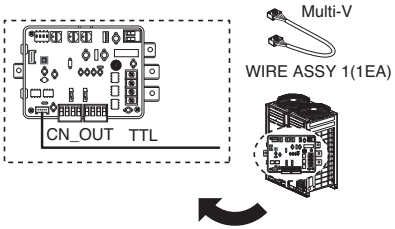
Do not input 220VAC. Otherwise It will cause a serious damage.

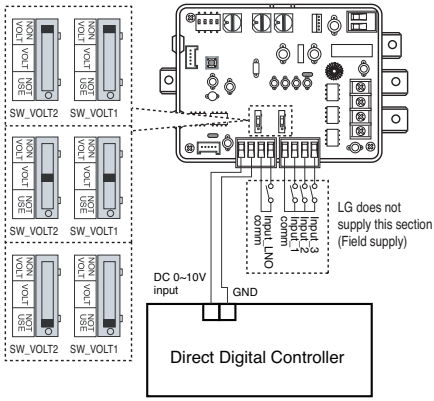
System structure

When outdoor unit has RS-485 communication function (Master Mode)



When outdoor unit doesn't have RS-485 communication function (Slave Mode)





NOTE

This dry contact module is available after MultiV3 series.

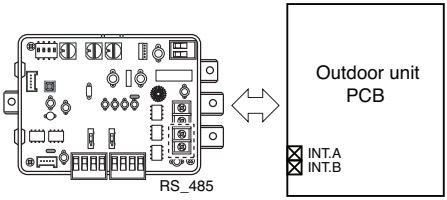
NOTE

Do not input the voltage signal in "NON VOLT" setting mode otherwise it will cause serious damage.

Connection with Outdoor unit

① When outdoor unit has RS-485 communication function (RS-485 Built-in model).

② When outdoor unit doesn't have RS-485 communication function.



NOTE

- When using an analog signal, Central control Devices can not be used together.
  Do not use signal cable over 1meter.
- Do not change a command too quickly. Keep the command 30 seconds at least, otherwise it will cause a damage to outdoor unit.
- This function is very sensitive to supplied power.
  So when using analog inputs, supply a constant-voltage by external power source.

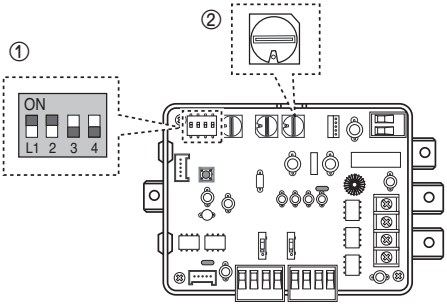
Setting of input signal

① When using contact signal input without external power.

② When using contact signal input with external power.

③ When using analog input signal.

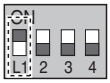
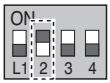
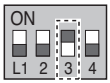
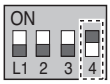
Setting of SWDIP and SW_STEP



NOTE

Default State is L1: ON, L2: ON.

① Using SWDIP select the option of control function as described below.

Position	Function
	ON : Master Mode OFF : Slave Mode
	ON : Enable Low Noise Operation OFF : Disable Low Noise Operation
	No Function
	ON : On Boarding Mode OFF: No Function

② Use the SW_SETP to set a control step for contact signal input : The type of input signal and control step can be set using SW_STEP.

- Type of input signal

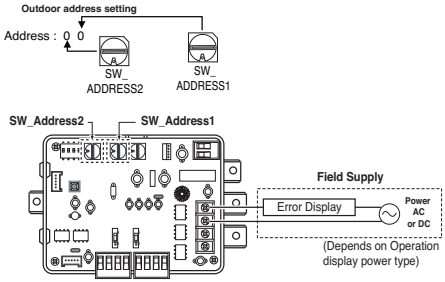
SW_STEP	Input Signal
0, 1, 2, 3, 4, 5, 6	Contact signal input
D	Analog input signal

* Detail of the control step for contact signal input.

NOTE

After change 'SWDIP' setting, then you must press reset switch to reflect the setting.

Setting of SW_Address and Out door unit monitoring



Use the 'SW_Address' to set an address of outdoor unit

- Master Mode
  use SW_ADDRESS2 to set a group(0~F)
  If you set a group as "0", the address of outdoor unit should be "00~0F"
- Slave Mode (when using with central control device)
  use all to set the address of outdoor unit for sending to central control device.

NOTE

- Using this switch, the address of outdoor unit can be set as 0~254(00~FE)
- If the outdoor unit has it's own address, you need not to set address in slave mode.
- After change 'SW_Adress' setting, then you must press reset switch to reflect the setting.

Monitoring outdoor unit error : Refer to below and connect to the control device that you want to control.

NOTE

- Maximum external power source is recommended as below
  AC : 3A at 250V
  DC : 3A at 30V

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Manufacturer: LG Electronics Inc. Changwon 2nd factory, 84, Wanam-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, KOREA