



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.
Dry contact for demand control

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



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	SLOVENČINA	SLOVENŠČINA	LATVIŠU VALODA	LIETUVŲ KALBA	GAEILGE	МАКЕДОНСКИ	SHQIP	ISLENSKA	BOSANSKI

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

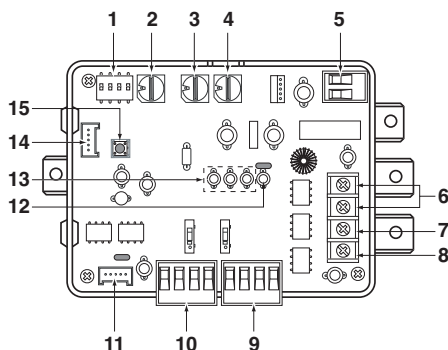
installation service provider.

- Make the children and the elderly use the product with the help a guardian.
- Do not give impact to the product.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given

supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- * Install and use by qualified personnel only.

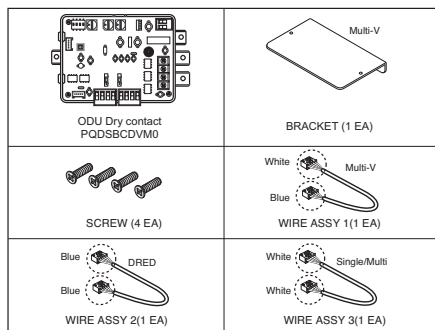
NAME OF EACH PART



Dry contact for DEMAND CONTROL

1. **SW_DIP** : 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.

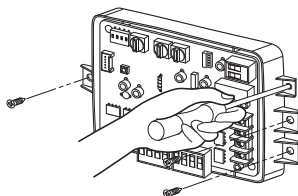
ACCESSORY PARTS



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.

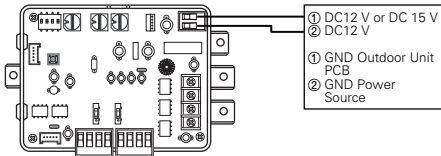
Do not deform the case at random. It may cause malfunction of the Dry contact.

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.

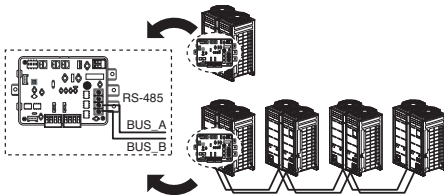


! NOTE

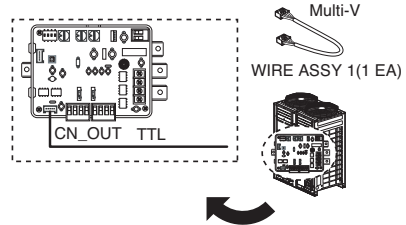
This device can accept only DC Power input.
Do not input 220 VAC. Otherwise It will cause a serious damage.

System structure

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



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

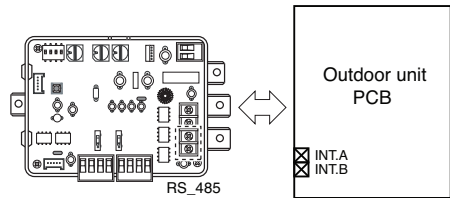


! NOTE

This dry contact module is available after Multi V 3 series.

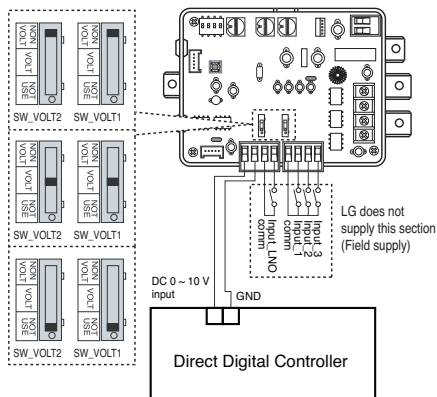
Connection with Outdoor unit

- 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.



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.



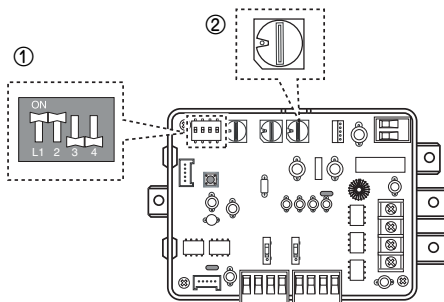
NOTE

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

NOTE

- When using an analog signal, Central control Devices can not be used together.
Do not use signal cable over 1 meter.
- 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 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_STEP to set a control step for contact signal input : The type of input signal and control step can be set using SW_STEP.

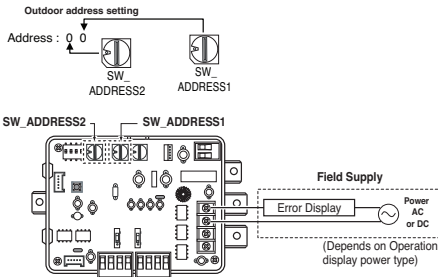
- Type of input signal

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

! 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_ADDRESS' 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 : 3 A at 250 V
DC : 3 A at 30 V

* If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

* Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

* Qualified service technician is only possible to access to product.

Minimum cross-sectional area of conductors

Rated current of appliance A	Nominal cross-sectional area mm ²
≤ 0.2	Tinsel cord ^a
> 0.2 and ≤ 3	0.5 ^a
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1.0 (0.75) ^b
> 10 and ≤ 16	1.5 (1.0) ^b
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6
> 40 and ≤ 63	10

^a These cords may only be used if their length does not exceed 2 m between the point where the cord or cord guard enters the appliance and the entry to the plug.

^b Cords having the cross-sectional areas indicated in the parentheses may be used for portable appliances if their length does not exceed 2 m.

**ENGLISH Disposal of your old appliance**

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.