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МАКЕДОНСКИ
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INSTALLATION/ OWNER'S MANUAL

AIR CONDITIONER

Please read this manual carefully before operating your set and retain it for future reference.

Data Saving Module (Multi-V)
PVDATN000

MFL62179512
Rev.01_092320

www.lg.com

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IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

Always comply with the following precautions to avoid dangerous situations and ensure peak performance of your product.

⚠ WARNING

It can result in serious injury or death when the directions are ignored.

⚠ CAUTION

It can result in minor injury or product damage when the directions are ignored.

⚠ WARNING

- Installation or repairs made by unqualified persons can result in hazards to you and others.
- Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.
- The information contained in the manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.
- Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.

⚠ WARNING

Installation

- Be sure to request to the service center or installation specialty store when installing products.
  It will cause fire or electric shock or explosion or injury.
- Request to the service center or installation specialty store when reinstalling the installed product.
  It will cause fire or electric shock or explosion or injury.
- Do not disassemble, fix, and modify products randomly.
  It will cause fire or electric shock.
- Be sure to turn off outdoor unit power before installation. It will cause electric shock.

In-use

- Do not place flammable stuffs close to the product. It will cause fire.
- Do not allow water to run into the product. It will cause electric shock or breakdown.
- Do not give the shock to the product. It will cause breakdown when giving the shock to the product.
- Request to the service center or installation specialty store when the product becomes wet.
  It will cause fire or electric shock.
- Do not give the shock using sharp and pointed objects. It will cause breakdown by damaging parts.
- Do not touch the board when the power is connected. It can cause a fire, electric shock, explosion, injury and problem to the product.

⚠ CAUTION

In-use

- Do not clean using the powerful detergent like solvent but use soft cloths. It will cause fire or product deformation.
- Do not press the screen using powerful pressure or select two buttons. It will cause product breakdown or malfunction.
- Do not touch or pull the lead wire with wet hands. It will cause product breakdown or electric shock.

* Install and use by qualified personnel only.

Warning
This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.



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 facilitiesappointed 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.

PC CONNECTION FOR DATE & TIME SETTING

• How to connect
- Connect Data Saving Module and Multi-V Outdoor Main PCB with Data Saving Cable
- Connect PC and PI232 module with RS232 cable.
- Connect Upgrade port in Data Saving module and PI232 module with program writing cable.
- Turn on the power of main PCB.

• Use Hyperterminal to set date & time and refer to full manual.

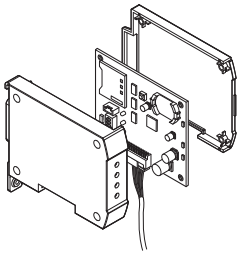


USB to Serial Converter

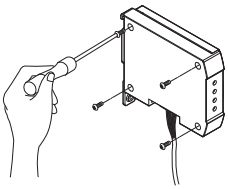
NOTE

If there is no COM port on PC, use the USB-to-RS232 converter.
There is some problems if you don't set date & time.

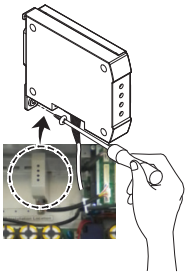
Installation Method



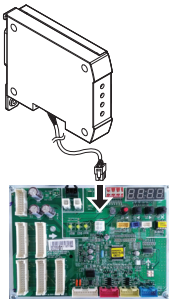
① Join the front case and the rear case.



② Anchor the front case at holes using anchor screws.



③ Join the case in the Multi-V Control Box, anchor the case at holes using anchor screws.

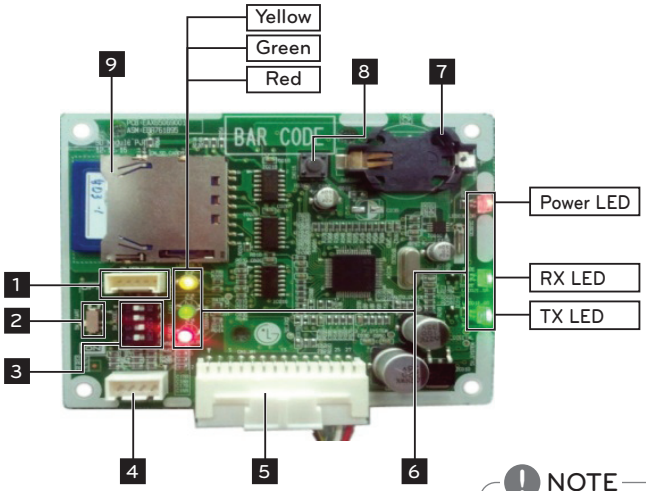


④ Connect connection wire to outdoor Main PCB.

CAUTION

- Install the product on flat surface and screw 4 places.
  Otherwise the Data Saving Module 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 Data Saving Module.
- It is recommended that assembling the front case and fixing the product on designated location.

NAME OF EACH PART



1 Debugger connector : For bootloader program writing and debugging.
2 Start S/W : On/Off switch for data save.
3 Dip S/W : The switch for selecting Multi-V model.
4 Comm connector : For Setting the Date and Time.
5 Main PCB Connector : For Connecting Main PCB and Data Saving Module.
6 Status LEDs : Display current status and error.
7 Battery Socket : Keeping Date and Time.
8 Reset S/W : For rebooting Data Saving Module.
9 SD Card Slot : For installing the SD card.

• SD Memory Card.
- Use 2GB ~ 32GB SD or SDHC
- FAT32 format should be preceded before in use.
- Output file format : S(model name)(year)(month)(day).csv
ex) Multi-V IV, 2013(year) 7(month) 15(day) → S4130715.CSV

• Battery – Use CR2032

NOTE

- Remove the SD card after turning off the start switch.
- When Data Saving Module lost power, battery have to set on battery socket for Keeping Date and Time.
- When the SD card memory is filled, some of saved data is removed. It may different on SD card memory and recording interval.

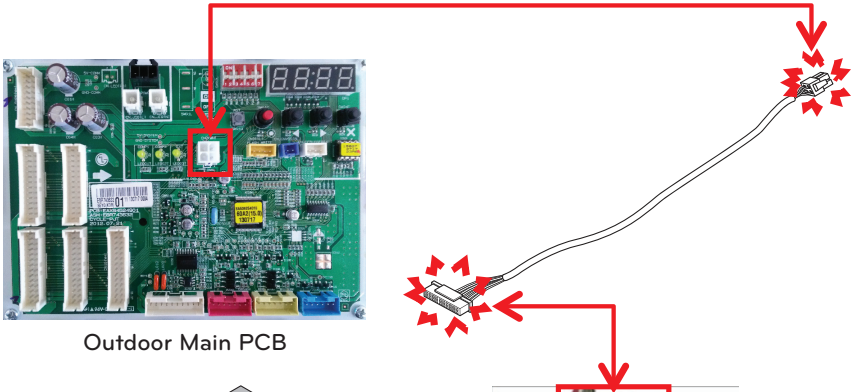
LED State

• Green LED
: Display current state.
- On recording : Blinking in xx seconds interval : Recording interval x 4
- When SD memory card is initially inserted or memory capacity calculation is operated at every minutes : ON for several minutes(seconds) → OFF.

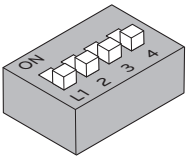
• Yellow LED
: Display start of data recording
- Start SW On : always ON
- Start SW Off : always OFF

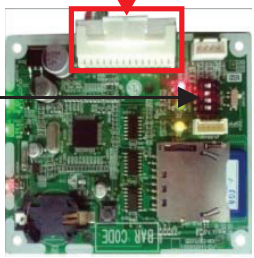
• Red LED
: Display normal or error state.
- Normal state : Blinking in 1 sec interval.
- Error state : LED OFF for 2 seconds → Blinking current error as bellows.
7 times : Memory card Lock
8 times : No memory card

Operation



Outdoor Main PCB





Data Saving Module

NOTE

- Default state of dip switch is all off.

Step 1. Turn off start switch in Data Saving Module.

Step 2. Dip switch position depend on the model.
SW1 (ON) & SW2 (OFF) & SW3 (OFF) : Multi V 5 Generation
SW1 (OFF) & SW2 (ON) & SW3 (ON : Multi V IV Generation
SW1 (OFF) & SW2 (ON) & SW3 (OFF) : Multi V III Generation

Step 3. Connect Data Saving Module to Outdoor Main PCB with Data Saving cable.

Step 4. Check LED state.

: Green LED (Off), Yellow LED(Off), Red LED
(Blinking 8 Times – SD memory card is not inserted)

Step 5. Check LED state after SD memory card insertion.

: Green LED (several minutes On state → Off : Calculate SD memory card capacity)
Yellow LED (Off), Red LED (in Normal state – Blinking in 1 sec interval)

Step 6. Check normal state. Then, turn start switch On

: Green LED (Blinking in xx seconds interval : Recording interval x 4)

: Yellow LED (Always ON)

: Red LED (in Normal state – Blinking in 1 sec interval)

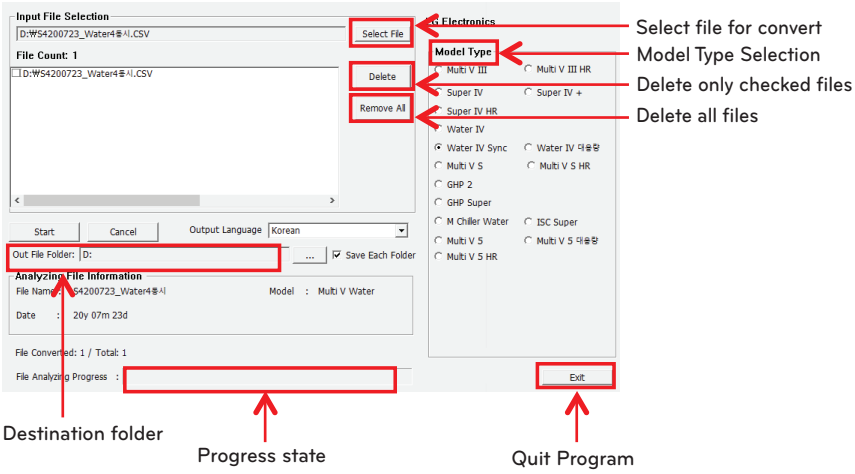
Data Converter

• Data Converter

SD data converter is windows PC based program that converts encoded file to an easy form of readable file for user.

• When execute DataConverter file, it displays as belows.

- Select file for convert (multiple selection is supported)
- Model Type Selection
- Click "Start"





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