

OWNER'S & INSTALLATION MANUAL SIMPLE WIRED REMOTE CONTROLLER

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

Models : PQRCVCLOQ
PQRCVCLOQW

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Safety Precaution

- The installation requires expert skills, and it should be installed by the service center or other shops specialized in the installation and recognized by our company.
- For all the problems arising after installation by someone who has no relevant qualifications, our company will not provide free service.
- The following safety cautions are provided to prevent unexpected dangers or losses.

⚠ WARNING : If the user does not follow the mandatory items, it may result in serious injury or death.

⚠ CAUTION : If the user does not follow the mandatory items, it may cause personal injury or property damage.



: Warning and Caution are to call the user's attention to the possible danger. Read and follow them carefully in order to prevent a safety accident.



: Warning and Caution are indicated in this guide and the product itself to help protect the users from danger.

⚠ 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.

■ 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.

⚠ 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.

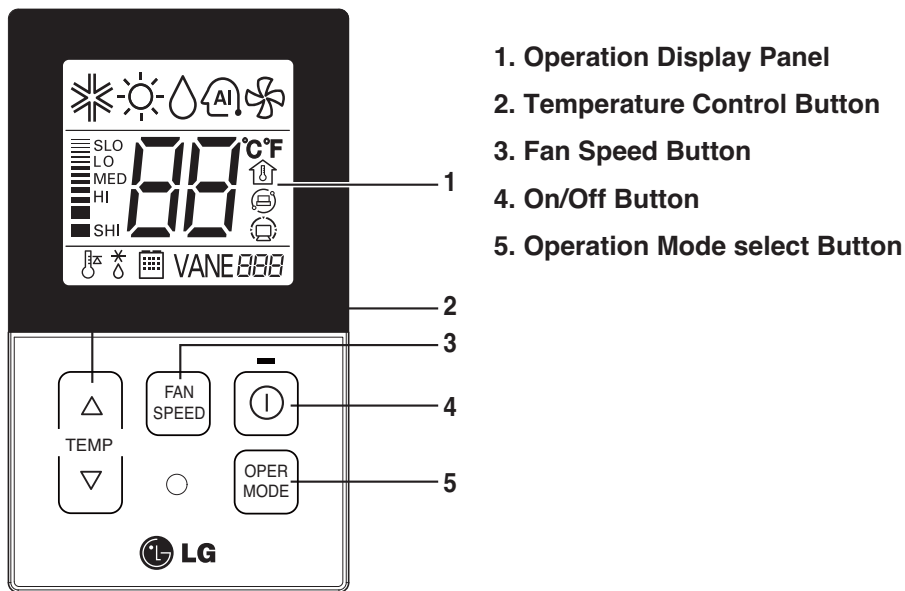
- It will cause product breakdown or malfunction.

Do not touch or pull the lead wire with wet hands.

- It will cause product breakdown or electric shock.

Part Description

Simple Wired Remote Controller



Each function will be shown on the display panel for three seconds or so when the power is applied at first.

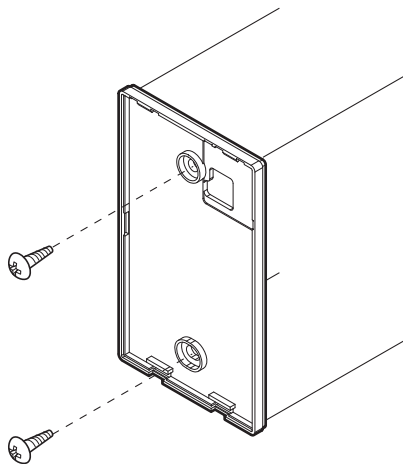
Accessory



Installation instruction

1. Please fix tightly using provided screw after placing remote controller setup board on the place where you like to setup.

- Please set it up not to bend because poor setup could take place if setup board bends.
- Please set up remote controller board fit to the reclamation box if there is a reclamation box.



2. Can set up Wired remote controller cable into three directions.

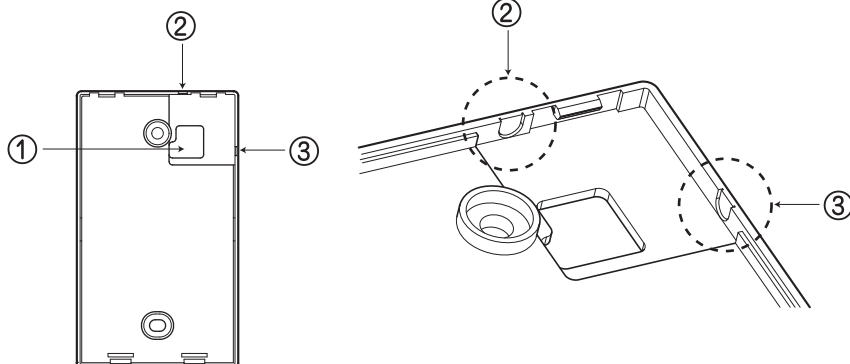
- Setup direction: the surface of wall reclamation, upper, right
- If setting up remote controller cable into upper and right side, please set up after removing remote controller cable guide groove.

※ Remove guide groove with long nose.

① Reclamation to the surface of the wall

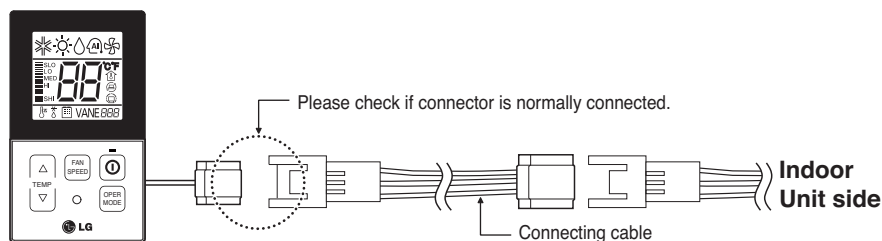
② Upper part guide groove

③ Right part guide groove



<Wire guide grooves>

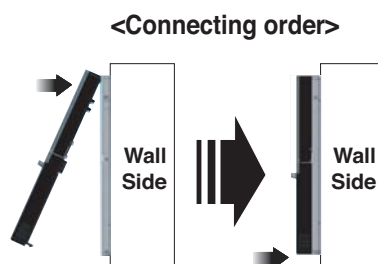
3. Please connect indoor unit and remote controller using connection cable.



4. Please use extension cable if the distance between wired remote controller and indoor unit is more than 10m.

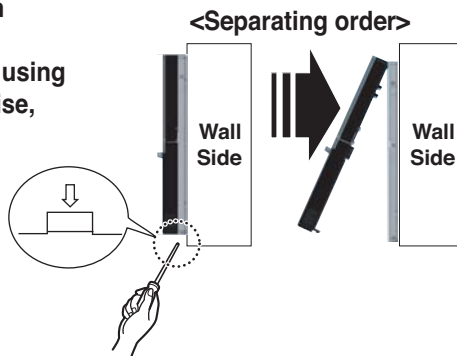
5. Please fix remote controller upper part into the setup board attached to the surface of the wall, as the picture below, and then, connect with setup board by pressing lower part.

- Please connect not to make a gap at the remote controller and setup board's upper and lower, right and left part.



When separating remote controller from setup board, as the picture below, after inserting into the lower separating hole using screw driver and then, spinning clockwise, remote controller is separated.

- There are two separating holes. Please individually separate one at a time.
- Please be careful not to damage the inside components when separating.



⚠ CAUTION

When installing the wired remote controller, do not bury it in the wall.

(It can cause damage in the temperature sensor.)

Do not install the cable to be 50m or above.

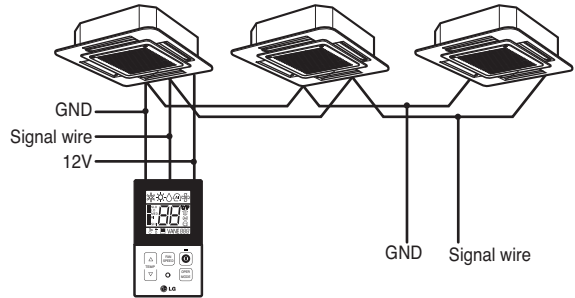
(It can cause communication error.)

- When installing the extension cable, check the connecting direction of the connector of the remote controller side and the product side for correct installation.
- If you install the extension cable in the opposite direction, the connector will not be connected.
- Specification of extension cable: 2547 1007 22# 2 core 3 shield 5 or above.

Group control

1. When installing more than 2 units of air conditioner to one wired remote controller, please connect as the right figure.

- If it is not event communication indoor unit, set the unit as slave.
- Check for event communication through the product manual.



When controlling multiple indoor units with event communication function with one remote controller, you must change the master/slave setting from the indoor unit.

Indoor units, the master/slave configuration of the product after completion of indoor unit power 'OFF' and then 'ON' the power after 1 minutes elapsed sign up.

- For ceiling type cassette and duct product group, change the switch setting of the indoor PCB.



#3 switch OFF: Master
(Factory default setting)



#3 switch ON: Slave

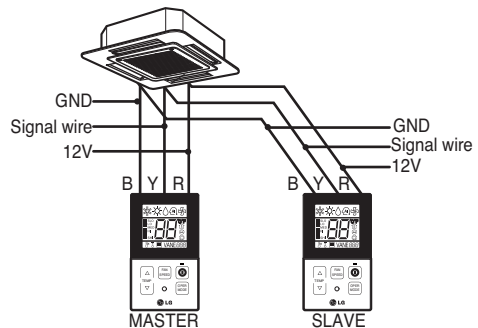
- For wall-mount type and stand type product, change the master/slave setting with the wireless remote controller. (Refer to wireless remote controller manual for detail)

※ When installing 2 remote controllers to one indoor unit with event communication function, set the master/slave of the remote controller. (Refer to remote controller master/slave selection)

When controlling the group, some functions excluding basic operation setting, fan level Min/Mid/Max, remote controller lock setting and time setting may be limited.

2. When installing more than 2 wired remote controllers to one air conditioner, please connect as the right picture.

- When installing more than 2 units of wired remote controller to one air conditioner, set one wired remote controller as master and the others all as slaves, as shown in the right picture.
- You cannot control the group as shown in the right for some products.
- Refer to the product manual for more detail.



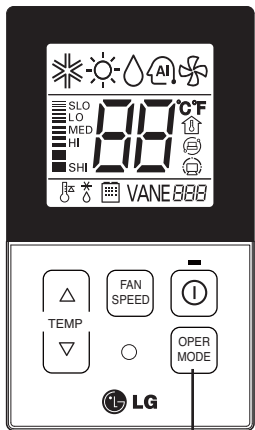
<When simultaneously connecting 2 sets of wired remote controller>

- When controlling in groups, set the master/slave of the remote controller. Refer to Installer setting section on how to set master/slave for more detail.

Installer Setting -How to enter installer setting mode

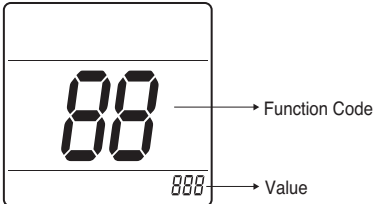
CAUTION

Installer setting mode is to set the detail function of the remote controller.
If the installer setting mode is not set correctly, it can cause problems to the product, user injury or property damage. This must be set by an certificated installer, and any installation or change that is carried out by a non-certificated person should be responsible for the results. In this case, free service cannot be provided.



1 If you want to set installer setting mode, Press the Temperature up button and the oper mode button same time for five seconds.

2 When you enter the setting mode Initially. Function code is displayed on the LCD screen.



<Installer Setting Code Table>

1) General air-conditioner product

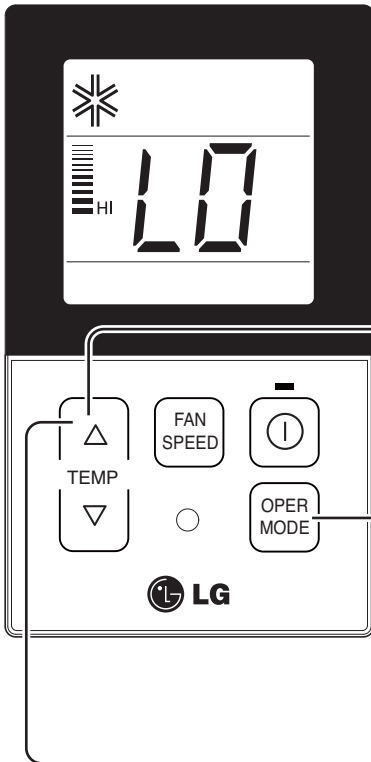
No.	Function	Code	Value
1	Test Run	01	01:Set
2	Address Setting	02	00~FF : Address
3	E.S.P. Value	03	<ESP Step> 01:VeryLow 02:Low 03:Med 04:High 05:Very High <ESP Value> 0 ~ 255 <Example> 0301000 Function CodeESP stepESP value
4	Thermistor	04	01:Remo 02:Indoor 03:2TH
5	Ceiling Height	05	01:Med 02:Low 03:High 04:Very High
6	Static Pressure	06	01:V-H 02:F-H 03:V-L 04:F-L
7	Master Setting	07	00:Slave 01:Master
8	Celsius Fahrenheit Switching	12	00:Celsius 01:Fahrenheit (Optimized only for U.S.A)

* Some contents may not be displayed depending on the product function

Installer Setting -Test Run Mode

After installing the product, you must run a Test Run mode.

For details related to this operation, refer to the product manual.



- 1** When pressing the button and button simultaneously for more than 3 seconds, the system will be entered into the installer setting mode.

 - After entering into the installer setting mode, select the test run mode code value by pressing the button.
 - * Test run mode code value : 01
- 2** When pressing the button, the test operation mode will be performed, and it is displayed as shown in the left figure.
- 3** When pressing the button and button simultaneously for more than 3 seconds after the setting has been completed, the setting mode will be released.

 - If there isn't any button input for more than 25 seconds, the installer setting mode will also be released.
- 4** When approx. 18 minutes are elapsed after starting of the test oper-mode, the system will be stopped automatically and converted to the standby state.

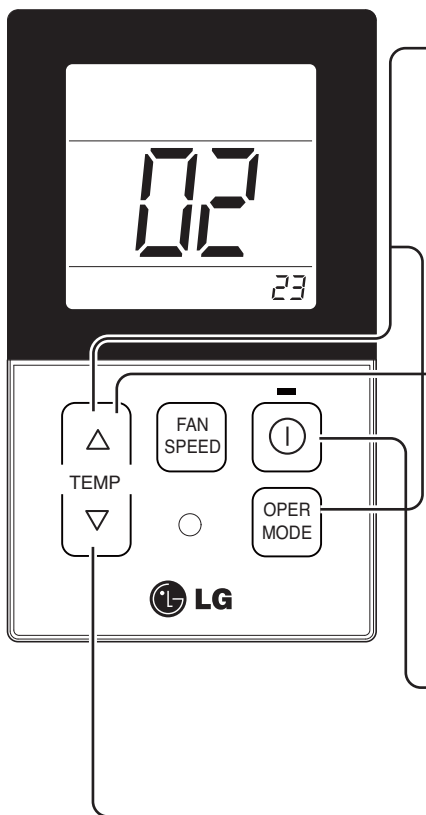
 - If any button is inputted during the test run mode, the test run mode will be forced to be released.

• What is the test run mode??

- This means the operation of the product under the cooling, strong wind, and Comp on state without performing room temperature control in order to confirm the installed state during the product installation.

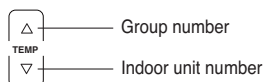
Installer Setting - Setting Address of Central Control

It's the function to use for connecting central control.
Please refer to central controller manual for the details



1 When pressing the button and button simultaneously for more than 3 seconds, the system will be entered into the installer setting mode.
- After entering into the installer setting mode, select the central control address setting code value by pressing the button.
* Setting address of central control code value : 02

2 Set up the group number and indoor unit with the temperature adjustment(,) buttons.



For example, when setting as
[Group number=2 Indoor number=3]
it will be displayed as shown in the left figure.

3 When pressing the button, the system will be set up with the address value which has been established at present.

4 When pressing the button and button simultaneously for more than 3 seconds after the setting has been completed, the setting mode will be released.
- If there isn't any button input for more than 25 seconds, the installer setting mode will also be released.

- If you connect the indoor unit to the central controller, you should set the network address of the indoor unit so that the central controller could recognize it.
- The center-control address is composed of the group number and the indoor-unit number.

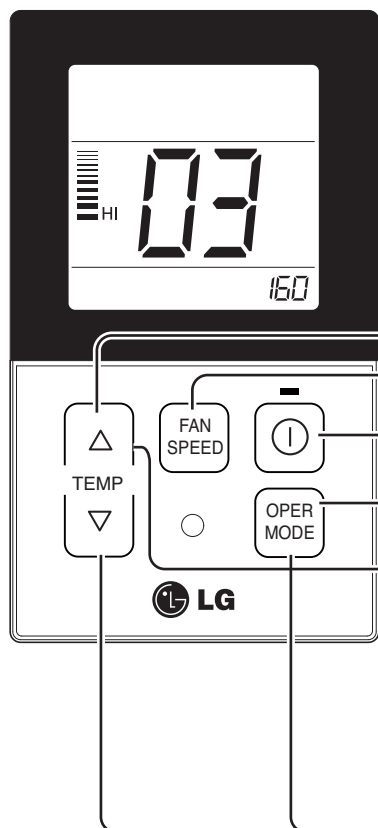
Note : The remote controller displays 'HL' if central controller has locked the remote controller .

* In the case when the lock is set up at the central controller, 'HL' will be indicated on the display window of the wired remote controller and the indoor unit will not be controlled by the remote controller.

Installer Setting -E.S.P.

This is the function that decides the strength of the wind for each wind level and because this function is to make the installation easier.

- If you set ESP incorrectly, the air conditioner may malfunction.
- This setting must be carried out by a certificated-technician.

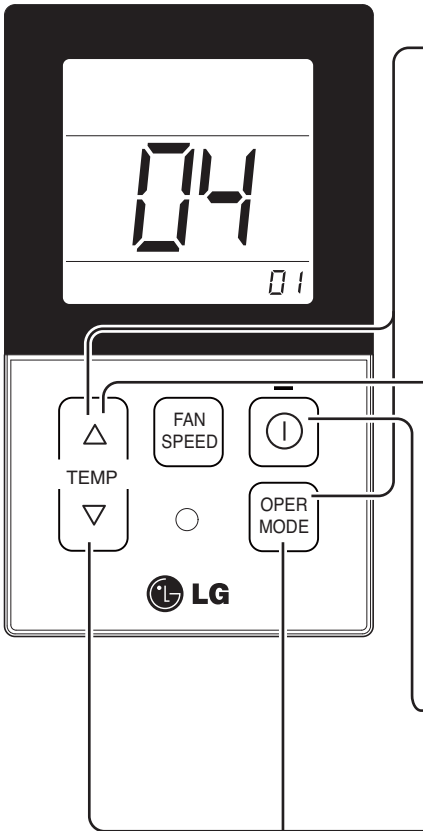


- 1 When pressing the button and button simultaneously for more than 3 seconds, the system will be entered into the installer setting mode.
- After entering into the installer setting mode, select the E.S.P code value by pressing the button.
* E.S.P code value : 03
- 2 Select the desired air flow rate with the button. Whenever pressing the , [SLo→Lo→Med→Hi→Po] will be indicated.
- 3 Select the desired air flow rate value with the temperature up(), down() button.
* E.S.P value range : 0~255
- E.S.P value will be indicated at the upper right section of the display window.
- 4 When pressing the button, currently established E.S.P value will be set up.
- 5 When pressing the button and button simultaneously for more than 3 seconds after the setting has been completed, the setting mode will be released.
- If there isn't any button input for more than 25 seconds, the installer setting mode will also be released.

- Precaution shall be taken not to alter the E.S.P value corresponded to each air flow section.
- E.S.P value can be varied according to the products.
- In the case of going to the next air flow rate stage by pressing the fan-speed button during the setup of the E.S.P value, the E.S.P value of previous air flow rate will be maintained by remembering the E.S.P value prior to the shift.

Installer Setting -Thermistor

This is the function to select the temperature sensor to judge the room temperature.



1 When pressing the button and button simultaneously for more than 3 seconds, the system will be entered into the installer setting mode.

- After entering into the installer setting mode, select the thermistor sensor setting code value by pressing the .

* Thermistor sensor selection code value : 04

2 Select the desired setting value with the temperature up(), down() button.



*Setting value
01: Remote controller
02: Indoor unit
03: 2TH

3 When pressing the button, currently established thermistor sensor location will be set up.

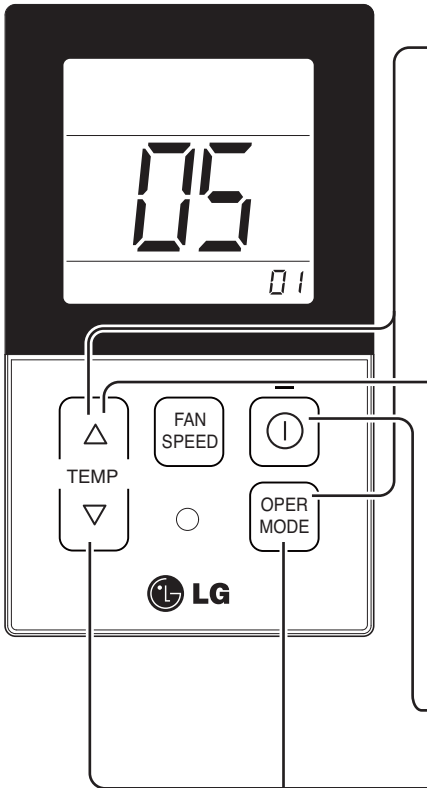
4 When pressing the button and button simultaneously for more than 3 seconds after the setting has been completed, the setting mode will be released.

- If there isn't any button input for more than 25 seconds, the installer setting mode will also be released.

- As the characteristic of the '2TH' function can be different in accordance with the products, refer to the product instruction manual for its detail.

Installer Setting -Ceiling Height Selection

This function is to adjust FAN Airflow rate according to ceiling height (For ceiling type product)



- As the ceiling height setting standard can be different in accordance with the products, refer to the product instruction manual for its detail.

1 When pressing the button and button simultaneously for more than 3 seconds, the system will be entered into the installer setting mode.

- After entering into the installer setting mode, select the ceiling height setting code value by pressing the button.
- * Ceiling height setting code value : 05

2 Select the desired setting value with the temperature up(), down()) button.



*Setting value
01: Low
02: Standard
03: High
04: Very high

Code value
Value

3 When pressing the button, currently established ceiling height value will be set up.

4 When pressing the button and button simultaneously for more than 3 seconds after the setting has been completed, the setting mode will be released.

- If there isn't any button input for more than 25 seconds, the installer setting mode will also be released.

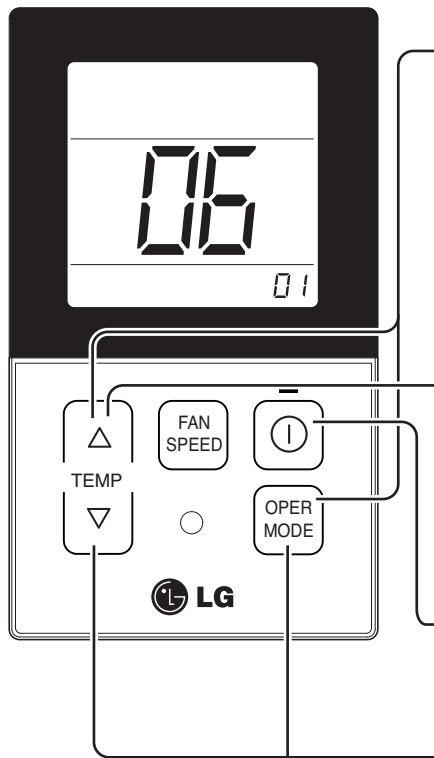
<Ceiling Height Selection Table>

Ceiling Height Level	Description
01 Low	Decrease the indoor airflow rate 1 step from standard level
02 Standard	Set the indoor airflow rate as standard level
03 High	Increase indoor airflow rate 1 step from standard level
04 Very high	Increase indoor airflow rate 2 steps from standard level

- Ceiling height setting is available only for some products.
- Ceiling height of 'Very high' function may not exist depending on the indoor unit.
- Refer to the product manual for more details.

Installer Setting -Static Pressure Setting

This function is applied to only duct type. Setting this in other cases will cause malfunction.



1 When pressing the button and button simultaneously for more than 3 seconds, the system will be entered into the installer setting mode.

- After entering into the installer setting mode, select the ceiling height setting code value by pressing the oper-mode button.
- * Static pressure setting code value : 06

2 Select the desired setting value with the temperature up(), down() button.



*Setting value
01:V-H
02:F-H
03:V-L
04:F-L

Code value

Value

3 When pressing button, currently established static pressure value will be set up.

4 When pressing the button and button simultaneously for more than 3 seconds after the setting has been completed, the setting mode will be released.

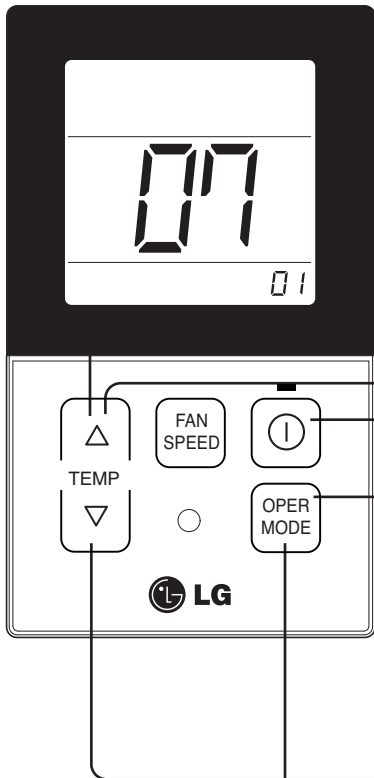
- If there isn't any button input for more than 25 seconds, the installer setting mode will also be released.

<Static Pressure Setting Table>

Pressure selection		Function	
		Zone state	ESP standard value
01	V-H	Variable	High
02	F-H	Fixed	High
03	V-L	Variable	Low
04	F-L	Fixed	Low

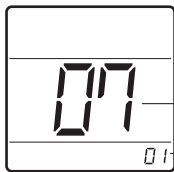
Installer Setting-Remote Controller Master/Slave Setup

It is a function for settings in group control, or 2-remote controller control.



1 When pressing the button and button simultaneously for more than 3 seconds, the system will be entered into the installer setting mode.
- After entering into the installer setting mode, select the ceiling height setting code value by pressing the oper-mode button.
* Remote controller master/slave setting code value : 07

2 Select the desired setting value with the temperature up(), down(), button.



*Setting value
01:V-H
02:F-H
03:V-L
04:F-L

3 When pressing the button, currently established static pressure value will be set up.

4 When pressing the button and button simultaneously for more than 3 seconds after the setting has been completed, the setting mode will be released.
- If there isn't any button input for more than 25 seconds, the installer setting mode will also be released.

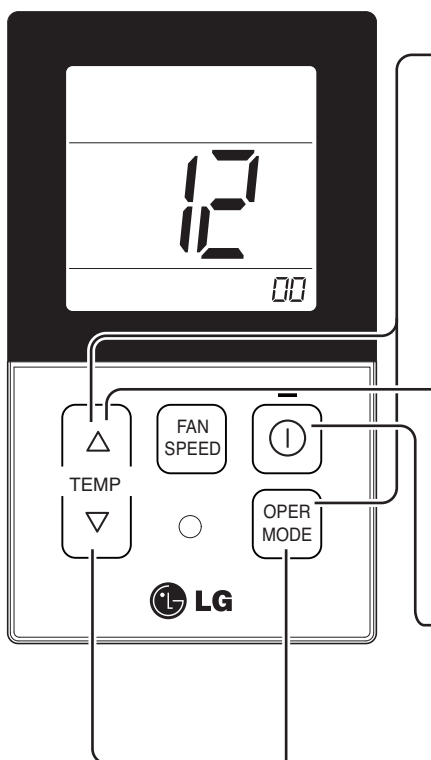
Remote controller	Function
Master	Indoor unit operates based on master remote controller at group control. (Master is set when delivering from the warehouse.)
Slave	Setup all remote controllers except one master remote controller to slave at group control

* Refer to the 'group control' part for details

- When controlling in groups, basic operation settings, airflow strength weak/medium/strong, lock setting of the remote controller, time settings, and other functions may be restricted.

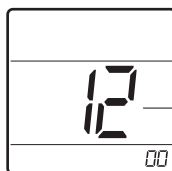
Installer Setting-Celsius / Fahrenheit Switching

This function is used for switching the display between Celsius and Fahrenheit.
(Optimized only for U.S.A)



- 1** When pressing the button and button simultaneously for more than 3 seconds, the system will be entered into the installer setting mode.
- After entering into the installer setting mode, select the ceiling height setting code value by pressing the oper-mode button.
* Celsius/Fahrenheit setting code value : 07

- 2** Select the desired setting value with the temperature up(), down() button.



*Setting value
00:Celsius
01:Fahrenheit

- 3** When pressing button, currently established celsius/Fahrenheit setting value will be set up.

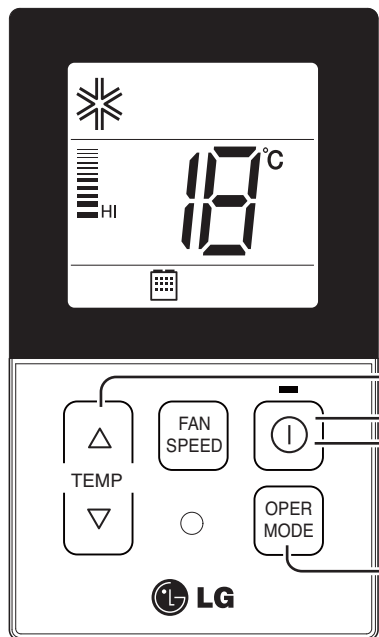
- 4** When pressing the button and button simultaneously for more than 3 seconds after the setting has been completed, the setting mode will be released.
- If there isn't any button input for more than 25 seconds, the installer setting mode will also be released.

• Whenever press temp up(), down() button in Fahrenheit mode, the temperature will increase/drop 2 degrees.

Owner's instruction

Standard Operation - Cooling Mode

It cools the room by comfortable and clean wind.



1 Cooling operation will begin if you press the  button.

2 Press the temperature button and set the desired room temperature lower than the current room temperature.



A click of the button will increase the desired temperature by 1°C or 2°F.

A click of the button will decrease the desired temperature by 1°C or 2°F.

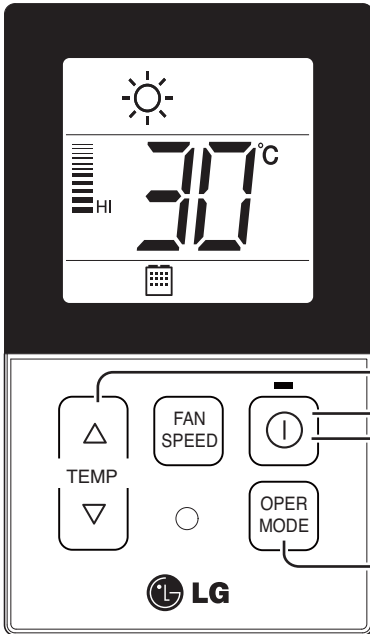
- Setting temp range : 18°C~30°C (64°F~86°F)
- If the desired temperature is set higher than the current room temperature, the cooling function will not begin and just the blowing operation will continue.

3 If you press the mode button during the operation, the operation mode will be changed in the order of cooling, dry(dehumidification), heating, auto-operation and fan operation. If the product is a cooling-only model, the operation mode will be changed in the order of cooling, dry(dehumidification), auto-operation and fan operation.

4 If you press the  button, the cooling operation will stop.

Standard Operation - Heating Mode

It supplies warm wind to the indoor



1 If you want to set the heating operation, press the button. And press the button.

2 Set the desired room temperature higher than the current room temperature.



A click of the button will increase the desired temperature by 1°C or 2°F.

A click of the button will decrease the desired temperature by 1°C or 2°F.

- Setting temp range : 16°C~30°C (60°F~86°F)
- If the desired temperature is set lower than the current room temperature, the heating function will not begin.

3 If you press the mode button during the operation, the operation mode will be changed in the order of cooling, dry(dehumidification), heating, auto-operation and fan operation.

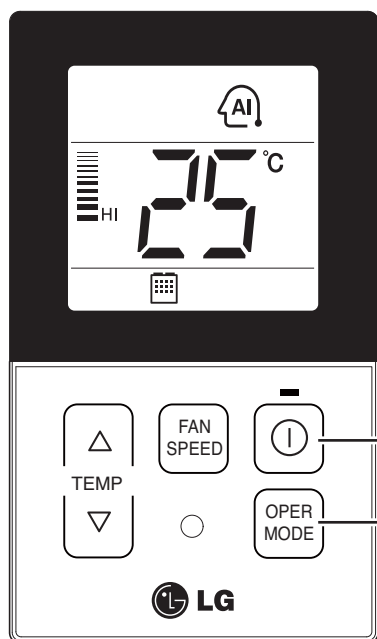
4 If you press the button, the cooling operation will stop.

What is the three-minute delay function?

It will take time for the product to blow warm air. The delay is to protect the compressor. The room will be heated with warm air after three minutes when the compressor begins operation.

■ The cooling-only model will not do heating function.

Standard Operation - Auto Operation Mode



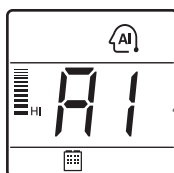
1 After operating the product by pressing the  button, set up the auto operation by pressing the  button.

2 “Auto Change Over Mode” – Heat pump model only
When desired the set temperature is higher than the room temperature during the auto operation
=> Heating operation
[For Heat pump models only]

When desired the set temperature is lower than the room temperature during the auto operation
=> Cooling operation

- Setting temp range : 18°C~30°C (64°F~86°F)

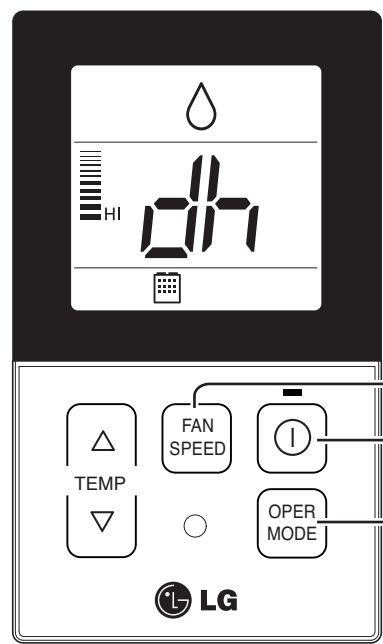
3 “Auto Operation Mode”
For the products with the exclusive purpose of cooling only, “AI” is indicated at the temperature display section.



 When cold
 When cool
 When appropriate
 When warm
 When hot

Standard Operation - Dehumidification Mode

It removes humidity while air-cooling weakly.



1 After operating the product by pressing the  button, set up the dry (Dehumidification) by pressing the  button.

2 When the dry operation is selected, “dh” will be shown on the display window as shown on the left side.

- The temperature setting can not be adjusted during operation this mode.

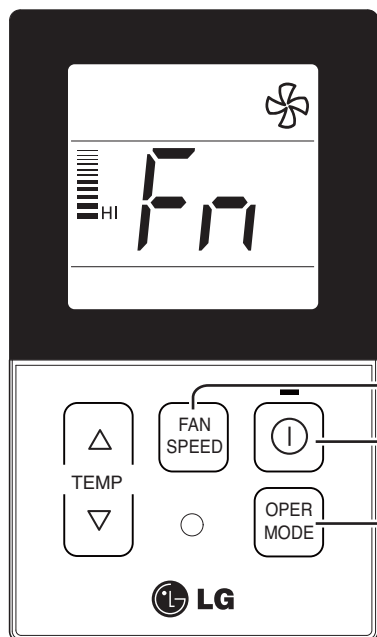
3 Press the  button to select airflow rate [SLo→Lo→Med→Hi→Po].

- The initial wind powerfulness of humidity removal drive is ‘weak’.

- In rainy season or high humidity climate, it is possible to operate simultaneously dehumidifier and cooling mode to remove humidity effectively.
- The menu item of wind powerfulness might not be partially selected according to the product.

Standard Operation - Fan Mode

It blows the air as it is in the indoor, not the cold wind.

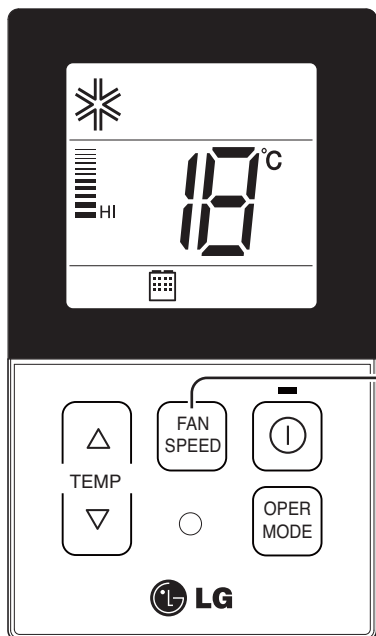


- 1** After operating the product by pressing the button, set up the fan operation by pressing the button.
- 2** When the dry operation is selected, "Fn" will be shown on the display window as shown on the left side.
- The temperature setting can not be adjusted during operation this mode.
- 3** Press the button to select airflow rate [SLo→Lo→Med→Hi→Po].
When running ventilation, compressor of AHU doesn't work.

- Ventilation drive does not release cool wind but general fan
- Because it releases the wind that has no temperature difference from the room, it functions to circulate the inside air.
- The menu item of wind powerfulness might not be partially selected according to the product.

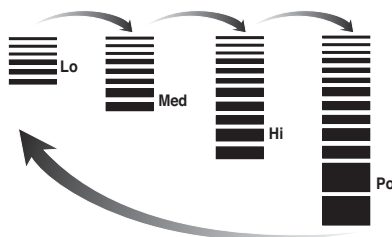
Function Setting - Fan Speed Selection

It blows the air as it is in the indoor, not the cold wind.

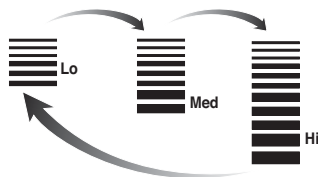


- 1 Select the proper fan speed which you want by pressing the  button on the remote controller.
 - If you press the  button, the fan speed will change in the order of [SLo→Lo→Med→Hi→Po].
 - The initial fan speed is "Hi".
 - If the product is not compatible with the fan speed Control, it will not function as per your selection.

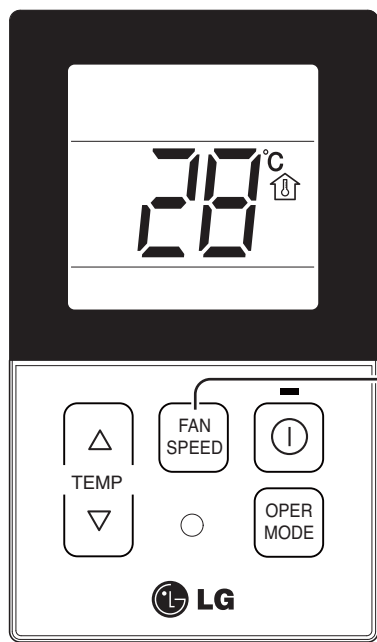
Fan Speed Selection in Cooling Operation



Fan Speed Selection in Heating, Dry, Fan, Auto-Operation



Function Setting - Room Temperature Check



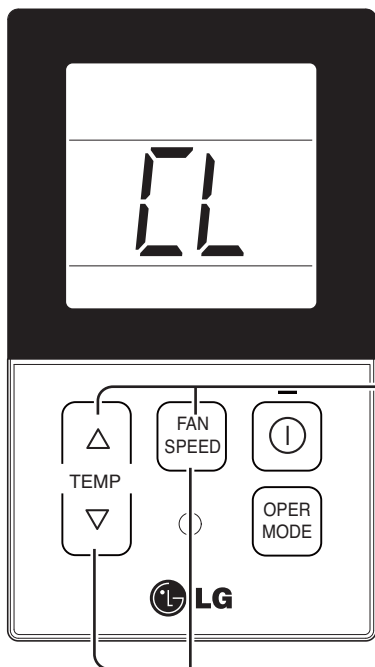
- 1** When pressing the  button of the remote controller Adjustment section for approx. 3 seconds, the room Temperature will be indicated for about 5 seconds Before resuming to the previous display panel.

In the case of the room temperature display, the room Temperature can be different in accordance with the Setting of the remote controller's room temperature Detection selection.

* As the temperature distribution of the remote controller Installation space is not uniform, slight difference can be Generated between the actually felt temperature and the room temperature indication of the remote controller.

Function setting - Child Lock

It is the function to use preventing children or others from careless using.



1 During the operation, when pressing the  button and  button for approx. 3 seconds, the 'Child Lock' Function can be used.

- At the time of initial setting of the 'Child Lock', the 'CL' Will be indicated approx. 3 seconds at the temperature Display section before resuming to the previous mode.

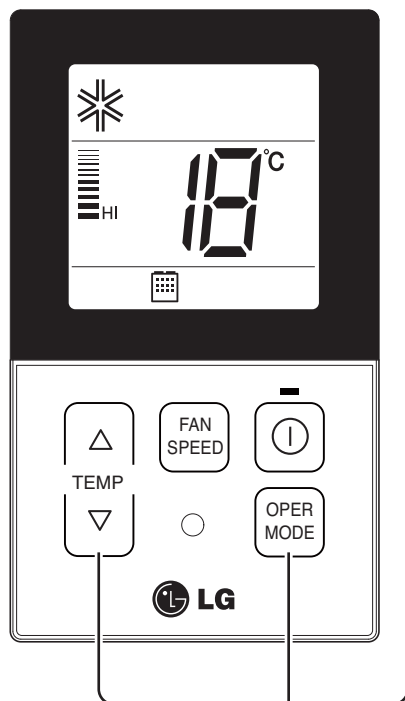
After the setting of the 'CL', if another button is setup, the button can not be recognized as the 'CL' is indicated at the temperature display section for approx. 3 seconds.

2 If the 'CL' function is wanted to be used under the operation standby state, press the  button and  Button for approx. 3 seconds under the standby mode state and the system will be the 'CL' state.

3 As for the releasing method, when pressing the  Button and  button for approx. 3 seconds, the 'CL' function can be released.

Function setting - Auto Swing

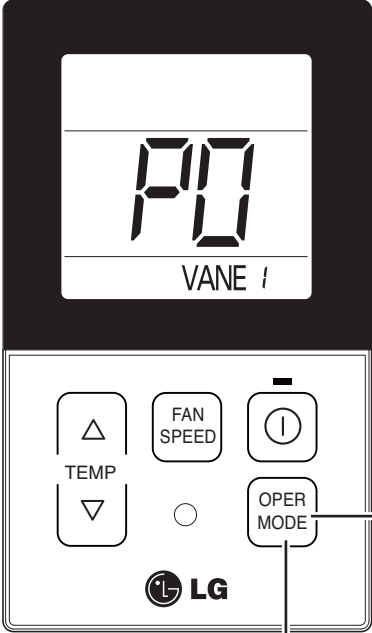
This function is to adjust angle at which airflow is blow out.



- 1 During the operation, when pressing the  button and  button for approx. 3 seconds, the 'Auto Swing' function can be
- 2 During the operation of the 'Auto Swing' function, when pressing the  button and  button simultaneously for approx. 3 seconds, the 'Auto Swing' function can be released.
 - This function is not indicated on the wired remote controller even if the product is actually operated.
 - This function may not be performed in accordance with the products.

Function setting - Vane Angle Control

This function is to adjust angle at which airflow is blow out.



1 When pressing the **OPER MODE** button for approx. 3 seconds during the operation, the vane angle control setting function can be used.

2 Initial 'vane1' is indicated at the window panel upper section and the system becomes the setting mode as 'P0' is indicated at the temperature display section.

3 Select the vane angle number from 'vane1' to 'vane4' by pressing the **OPER MODE** button.
- When selecting the vane number, the vane which is corresponded to the number will be opened and closed.

4 Select the vane angle from 'P0' to 'P6' with the temp up/down button.
- In the case of the wind flowing out angle, (Minimum angle).....(Max angle)
' P0 < P1 < P2 < P3 < P4 < P5 < P6 '

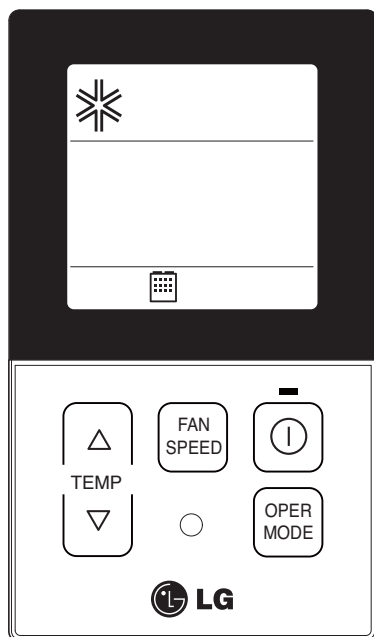
5 When pressing the **OPER MODE** button for 3 seconds, the setting is finished and the vane angle control setting is completed.
- If there isn't any button input for approx. 60 seconds after the setting, the system will be coming out of the vane angle control setting mode automatically.

* Vane number and the angle of wind can be selected differently in accordance with the products.

Different mode drive

Different mode drive is a phenomenon taking place when indoor units' drive mode is different in the case that a few indoor units are set up at one AHU.

(Different mode drive doesn't show up at cooling exclusive model.)



- 1** If one indoor unit operate heating mode while several indoor units are operating cooling mode, outdoor segment and cooling segment are blinking like display on the left.
=> It means operation of cooling mode in outdoor unit.
- 2** If one indoor unit operate cooling or dehumidification mode while several indoor units are operating heating mode, outdoor segment and cooling segment are blinking.
=> It means operation of heating mode in outdoor unit.
- 3** If pressing  button, indoor unit automatically runs at the mode that different indoor units are running after about 5 seconds and operates.

- If the product is not compatible with the different mode operation, LCD will be displayed 'CH07'.
- If 'CH07' is displayed, please change the mode.
- Different mode operation is not error.

Checkups before reporting breakdown

Please first check the items below for product's defects before consulting to service center.

Symptoms	Check-up	Management
It has no power on.	• Is air-conditioner's power on?	• Please check up circuit breaker. • Please check up wire remote controller's setup condition.
	• Are air-conditioner and remote controller properly connected with cable?	• Please connect air-conditioner and remote controller cable.
	• Is cable connection correct?	• Please check again referring to setup method at the manual.
It doesn't operate reservation drive.	• Did you correctly setup time?	• Please set up current time correctly.
	• Did you correctly make a reservation?	• Please set up again referring to the manual.
It doesn't release cool wind.	• Is desired temperature setup lower than current temperature?	• Please set up desired temperature lower than current temperature.
Air-conditioner automatically runs or stops.	• Isn't reservation drive setup?	• Please cancel reservation drive.
Error is indicated on remote controller indication window.	• Does remote controller indication window indicate 'CH03'?	• Please check again wire remote controller's setup condition. • Please check again connection condition of air-conditioner and remote controller cable.