Becon HVAC Solution

Individual Controller

MFL61741651

LG TOTAL HVAC SOLUTION PROVIDER

ENGINEERING PRODUCT DATA BOOK

LG Life's Good

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BECON™ HVAC Solution

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3. Wireless remote controller

BECON™ HVAC Solution

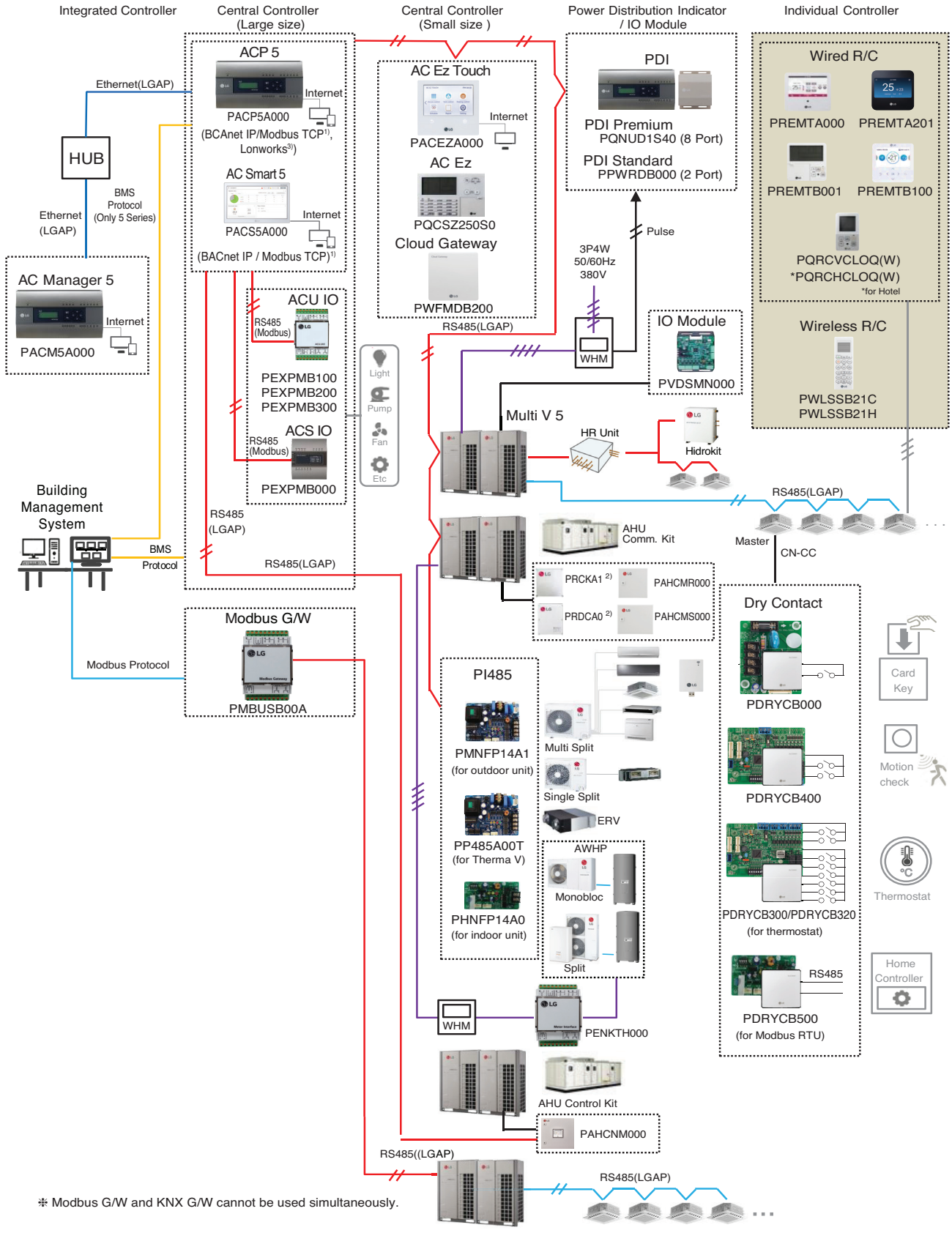
1. General Information

1.1 Solution Overview

1.2 Control System List

1.3 Nomenclature

1.1 Solution Overview



1) It is available in 5th series controllers (ACP 5(PACP5A000), AC Smart 5(PACS5A000)) only.
   ❊ If more details, please refer to the manual of its product.
2) This product is discontinued.
3) The LonWorks protocol is supported using the U60 module

1.2 Control System List

Category	Controller name	Model name	Compatible Product	Dimensions (W x H x D, mm)	Feature
Wired remote controller	Premium	PREMTA000(A/B) 	All IDU ERV [1] ERV DX	137 x 121 x 16.5	• 5 inch color Display • Touch Screen • Group control (Max 16 indoor unit) • Temp./Humid sensing
	Deluxe	PREMTA201 	All IDU ERV ERV DX	110 x 110 x 15	• Embedded Wi-Fi (ThinQ) • 4.3 inch color display, Full Touch • Welcome function • 2 set function • Group control (Max 16 indoor unit) • Temp / Humid sensing • Two types of schedules available
	Standard	PREMTB100 PREMTBB10 	All IDU ERV [1] ERV DX	120 x 120 x 16	• 4.3 inch color Display • Touch button • Group control (Max 16 indoor unit) • Temp./Humid sensing (from Mar. 2017) • 1 Digital Output available(on/off)
		PREMTB001 PREMTBB01 	All IDU ERV [1] ERV DX	120 x 120 x 16	• 4.3 inch mono Display • Hard button • Group control (Max 16 indoor unit) • 2 remote controller control • Temp. sensing • Basic / Advanced function* • Schedule function
	Simple	PQRCVCL0Q(W) 	All IDU	64 x 120 x 15	• 2.6 inch mono Display • Hard button • Group control (Max 16 indoor unit) • 2 remote controller control • Temp. sensing • Basic function*
		PQRCHCA0Q(W) 	All IDU	64 x 120 x 15	• 2.6 inch mono Display • Hard button • Group control (Max 16 indoor unit) • 2 remote controller control • Temp. sensing • Basic function* (except mode change)
Wireless remote controller		PWLSSB21H 	All IDU	51 x 153 x 26	• Heat Pump • 2 inch mono Display • Hard button • Temp. sensing • Basic function*
		PWLSSB21C 	All IDU	51 x 153 x 26	• Cooling Only • 2 inch mono Display • Hard button • Temp. sensing • Basic function*

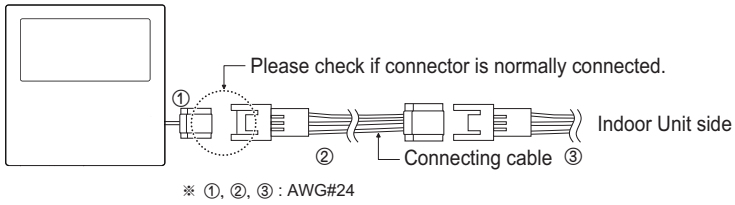
• 1) ERV : Energy Recovery Ventilation
• * Basic/Advanced function refer [Function List /Individual Controller].
• If you need more details, please refer to the manual of product. (http://partner.lge.com: Home> Doc.Library> Manual)

1.2 Control System List

Outline of system

1. Installation Method

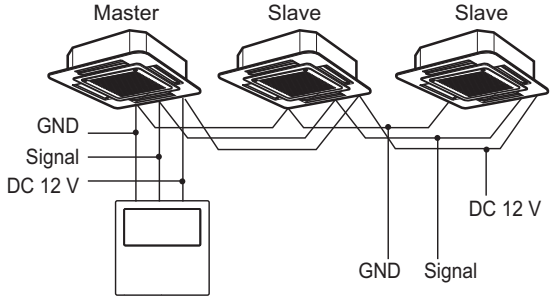
12 V	Red
Signal	Yellow
GND	Black



※ ①, ②, ③ : AWG#24

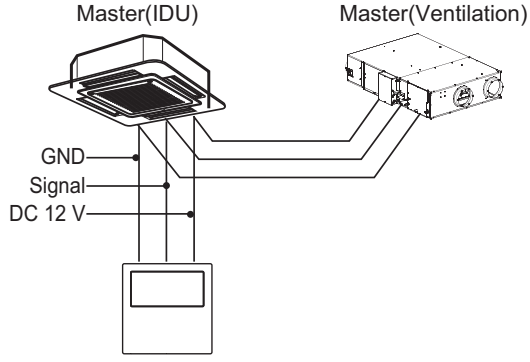
⇒ The total cable length must not exceed 50m. (It can cause communication error.)

2. Group Control



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

3. Interlocked operation with the ventilation

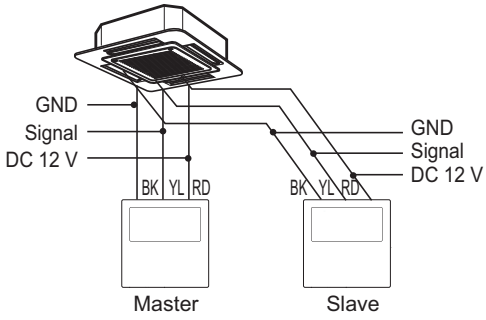


⇒ When installing interlocked scene with wired remote controller, use group control cable.

1.2 Control System List

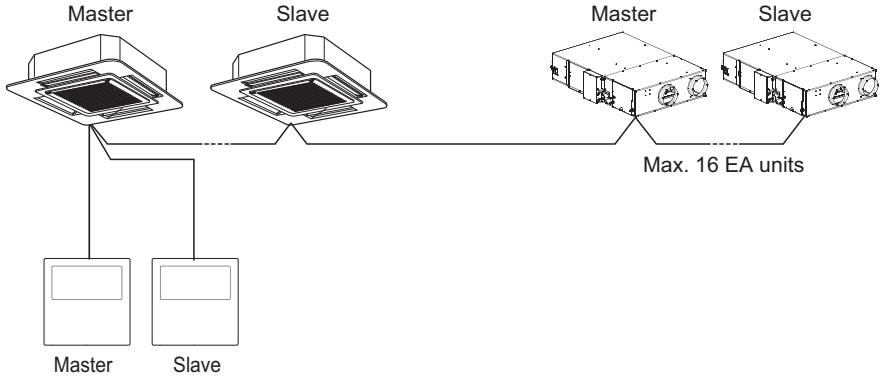
Outline of system

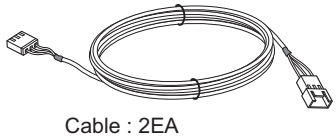
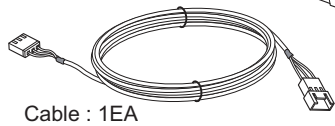
4. 2 Remote Controller Control



⇒ When installing more than 2 units of wired remote controller to one air conditioner, set one wired remote controller as master the others all as slaves.

You can use the air-conditioner and ventilation products as below using various control methods.



• **2 Remote Controller Control cable** - Model name : PZCWRC2 - Length : 0.25m  Cable : 10EA	• **Extension cable** - Model name : PZCWRC1 - Length : 9.6m  Cable : 2EA	• **Group Control cable** - Model name : PZCWRCG3 - Length : 0.25m / 9.6m  Cable : 1EA  Cable : 1EA

- Ventilation product means general ventilation and DX ventilation.
- Up to 16 IDU and ventilation units can be connected to wired remote controller for use.
- If you need more detail, please refer to the manual of product.
  (http://partner.lge.com: Home> Doc.Library> Manual)
- Deluxe remote controller doesn't support this function.

1.3 Nomenclature

■ Wired remote controller

Model Name	P	REMT	A	0	0	0
No.	1	2	3	4	5	6

No.	Signification
1	Air-con Control System and Accessory type P : Part(ACS) C : Part(ACS) for Brazil only
2	Product type REMT : Wired remote controller
3	Grade type A : Premium Deluxe B : Standard C : Simple
4	Tool version
5,6	Serial number

■ Wireless remote controller

Model Name	P	WLSS	B	2	2	H
No.	1	2	3	4	5	6

No.	Signification
1	Air-con Control System and Accessory type P : Part(ACS)
2	Product type WLSS : Wireless remote controller
3	Grade type A : Premium, Deluxe B : Standard C : Simple
4	Tool version
5	Serial number
6	Model type C : Cooling only H : Heat pump

*Some old models may not be applied.

2. Wired remote controller

2.1. Product Feature

2.1.1 Feature List

2.1.2 List of function

2.1.3 Compatibility List

2.2 Example of installing

2.3 Product Description

2.3.1 Premium

2.3.2 Standard

2.3.3 Simple

2.1 Product Feature

2.1.1 Feature list

Controller Name		Premium	Deluxe	Standard		Simple	
Product Image							
Model Name		PREMTA000 PREMTA000A PREMTA000B	PREMTA201	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW
Basic	On / Off	O	O	O	O	O	O
	Fan Speed Control	O	O	O	O	O	O
	Temperature Setting	O	O	O	O	O	O
	Mode Change	O	O	O	O	O	X
	Auto Swing	O	O	O	O	O	O
	Vane Control (Louver Angle)	O	O	O	O	O	O
	E.S.P (External Static Pressure)	O	O	O	O	O	O
	Electric Failure Compensation	O	O	O	O	O	O
	Indoor Temperature Display	O	O	O	O	O	O
	ALL Button Lock (Child Lock)	O	O	O	O	O	O
Advanced	Schedule / Timer	O	O	O	O	X	X
	Additional Mode Setting	O	O	O	O	X	X
	Time Display	O	O	O	O	X	X
	Humid. Display	O	O	O	X	X	X
	Advanced Lock (mode, set point, set point range, on/off Lock)	Advanced Lock	O	Advanced Lock	X	X	X
	Filter Sign	O	O	O	O	X	X
	EnergyManagement	O	O	O	O	X	X
	Dual Set point	O	O	O	X	X	X
	Human detection	X	O	O	X	X	X
	Temp, Humidity compensation	O	O	O	X	X	X
	Wi-Fi pairing	O	O	O	O	O	O
	Air purifying	X	O	O	X	X	X
ETC	Operation StatusLED	O	O	O	O	O	O
	Wireless Remote Controller Receiver	O***	X	X	O***	O***	O***
	Display	5 inch Color Display	4.3 inch Color Display	4.3 inch Color Display	4.3 inch mono Display	2.6 inch mono Display	2.6 inch mono Display
	Size (W x H x D, mm)	137 x 121 x 16.5	110 x 110 x 15	120 x 120 x 16	120 x 120 x 16	64 x 120 x 15	64 x 120 x 15
	Black Light Control for Screen Saver	O	O	O	X	X	X

2.1 Product Feature

2.1.2 List of function

Category	Level1	Level2	Level3	DESCRIPTION
Basic function	Temp setting	Single set(1 set)	-	-
	Operation mode	Cooling	-	Cool the room to the desired temperature.
		Dry	-	It removes the moisture with cooling.
		Monsoon dry *Only for India	-	It is a special function only for India
		Heating	-	Heats the room the desired temperature.
		Fan	-	Fan only operation, no cooling or heating.
		AI or Auto changeover (single set point)	AI for C/O Auto Changeover for H/P	The product automatically provides the appropriate fan speed based on the temperature of the room
		Power cooling	-	It provides strong cooling in short time.
		Power heating	-	It increases indoor temperature quickly.
		Himalaya cooling *Only for India	-	Himalayan cooling is a combined function of power cooling + vane swing, which is a region-specific feature applied to India wallmount models. It is a special function only for India
	Display indoor temp.	-	-	It display indoor temperature.
	Fan Speed	Slow	-	It is a function to set the Fan speed of the indoor unit.
		Low	-	
		Medium	-	
		High	-	
		Super high	-	
		Auto	-	
	Wind direction	Up-down swing	-	It is a function to set the wind direction of the indoor unit.
		Left-right swing	-	
		Comfort wind(Swirl)	-	
		Indirect wind	-	It operate at the minimum angle. Provides air flow that blows away from user for comfort.
		Direct wind	-	It operate at the maximum angle. It is suitable for high ceiling.
		Smart mode	-	Smartly keeps set temperature by adjusting the wind direction automatically.
		Refresh mode	-	Adjust the temperature of the direct and indirect wind to create a comfortable and efficiency working environment.
Sub function	Air Purify	-	-	It makes the indoor air clean and pleasant.
	Energy saving cooling	-	-	This is a function that improves the user's comfort and power saving performance by raising the desired temperature after an appropriate time elapses after the indoor temperature reaches the desired temperature during cooling operation.
	Robot cleaning (manual)	-	-	Robot cleaning function is the function to automatically perform the filter cleaning with the cleaner in the product when the air conditioner is used for certain period of time.
	Electric Heater	-	-	It is the function to reinforce the heating capability by turning on the electric heater during the heating operation.
	Humidification	-	-	It is the function to activate the humidifier installed in the product when the indoor air is dry.
	Fan auto	-	-	It is a function to operate indoor fan only when comp ON. This is to prevent noise caused by changing the control air volume when switching the compressor On/Off.
	Comfort cooling *ODU Function	-	-	The comfort cooling is the function to automatically control the cooling strength to maintain the pleasant feeling without turning off the product after the indoor temperature reached the desired temperature. (If ODU set continuous cooling functions, can use this function)
	Ventilation kit	-	-	You can turn on and off the ventilation kit installed in the product.
	Mosquito away	*Only for India	-	This function activates / stops the mosquito chase function. It is a special function only for India

2.1 Product Feature

Category	Level1	Level2	Level3	DESCRIPTION
Function setting	Vane angle	-	-	Adjust vane angle.
	Elevation grill control	Up/Down/Stop	-	Control the elevation grill installed on the product.
	Auto drying	-	-	When the product is off after cooling operation, it is the function to dry the inside of the indoor unit to remove mold and moisture.
	Robot cleaning	Auto/Manual	-	It is a function to select the automatic or manual operation of the robot cleaning function. Auto : When the cumulative operation time of the indoor unit exceeds certain time period, the robot cleaning is automatically performed. Manual : It perform robot cleaning manually.
	Auto swing		-	The wind direction changes automatically while operating.
	Filter alarm	Display remain time to cleaning alarm	-	It is a function to check the remaining time until the filter is cleaned or to clear (initialize) the indication of the filter cleaning time.
		Filter alarm release	-	
	Change temperature	Setting range : 1~7 °C	-	This function sets the range of the cooling / heating switching temperature of Auto Changeover mode.
	Comfort cooling	Step1 : Power saving effect low Step2 : Power saving effect medium Step3 : Power saving effect high	-	The comfort cooling is the function to automatically control the cooling strength to maintain the pleasant feeling without turning off the product after the indoor temperature reached the desired temperature. It is a function to set the step value of the power-saving effect of Comfort cooling. * When ODU set continuous cooling functions through installer setting, can use this function.
	ODU Refrigerant noise reduction	Step 0 : Not use Step 1 : Noise reduction low Step 2 : Noise reduction high	-	It is a function to set the refrigerant noise reduction function of the outdoor unit. It can be used at the noise sensitive areas. * Only for Master indoor unit set for ODU function control, can use this function.
	Defrost mode	Step 0 : Not use Step 1: Forced snow removal Step 2 : Quick defrost Step 3 : Forced snow removal+Quick defrost	-	This function sets the defrost mode operation of the outdoor unit. * Only for Master indoor unit set for ODU function control, can use this function.
	Smart Load Control	Step 0 Step 1 Step 2 Step 3 Step 4	-	It is a function to set the value of Smart load control of outdoor unit. * What is the SLC(Smart Load Control) function? - It is the function to operate by calculating the necessary efficiency from the indoor and outdoor temperature and humidity. Smart Load Control selections can enhance the comfort of the building and maximize savings at the same time. Step 0 : Not use Step 1 : Maximize energy savings, and rate of temperature change is less important. Step 2 : Balance the rate of temperature change with energy consumed. Step 3 : Quickly cool/heat the building, energy consumption less important. Step 4 : When fan speed is set to auto during SLC 4 STEP setting, energy can be saved by calculating the air conditioning load for each indoor unit, adjusting the target pressure of the outdoor unit according to the load and then adjusting the air volume. *Only for Master indoor unit set for ODU function control, can use this function.
	Low noise mode time	-	-	This function sets the start time and end time of the outdoor unit silent mode operation. *Only for Master indoor unit set for ODU function control, can use this function.
	Advanced fan speed 'auto'	Set Clear	-	It is the function to automatically change the fan speed according to the difference between the indoor temperature and the desired temperature. Set : Change the fan speed automatically Clear : No change the fan speed automatically
	Discharge direction		-	This is a function to set the usage of the upper and lower vanes when operating the console
	Economizer	Not use Auto Step 1 Step 2	-	This is a function that learns the desired temperature frequently set by the user at the initial stage of product operation, and operates the product at the learned preferred temperature when driving the product later. Auto : If the outside air temperature is lower than the indoor air temperature when cooling is being operated, outside air is supplied to the room to save the energy. Step 1 : Opens the outside air damper opening by one stage to improve the indoor air quality by introducing fresh air into the room. Step 2 : Opens the outside air damper opening by two stages to improve the indoor air quality by introducing fresh air into the room.
	My favorite temperature	Clear Set	-	This is a function that learns the desired temperature frequently set by the user at the initial stage of product operation, and operates the product at the learned preferred temperature when driving the product later.
	UVnano	Use / Not use	-	UVnano is a function that sterilizes fans or filters using UV LEDs at regular intervals during air conditioning operation.

2.1 Product Feature

Category	Level1	Level2	Level3	DESCRIPTION
Lock function	All lock (Child lock)	-	-	It locks all button operation of the remote controller.
	Individual lock	On/Off lock	-	It locks the On/Off button operation of the remote controller.
		Mode lock	-	This function makes it impossible to change the operation mode from the wired remote control.
		Set temp. range lock	-	It is the function that can limit the range of the desired temperature
Schedule & Timer	Weekly schedule	-	-	You can set up a weekly schedule.
	Annual schedule	-	-	You can set an annual schedule.
	Holyday setting	-	-	When the air conditioner is turned on at the set holiday, it is automatically turned off at every hour. In case of PREMTB001/PREMTBB01, You can set holidays based on the day of the week. (Max 6 EA) - For PREMTB100/PREMTBB10, You can set holidays by date.(Max 10 EA) - For PREMTA(B/C)000, You can set holidays by date.(Max 20 EA)
	Daily timer	On timer	-	You can turn on the air conditioner at certain times of the day. - It is executed only once and is deactivated.
		Off timer	-	You can turn off air conditioning at certain times of the day. - It is executed only once and is deactivated.
	Timer	Simple timer	-	After 1 to 7 hours of operation, the product can be turned on or off.
		Sleep timer	-	After 1 to 7 hours of operation, the product can be turned on.
Human Detection function	Air flow setting	Human detected indirect wind	-	The vanes are controlled so that airflow does not go directly to the occupants according to the occupant's position.
		Human detected direct wind	-	Vane control for direct wind control is performed according to the occupant position.
		Airflow based on activity	-	A vision sensor is used to detect the amount of activity in each zone and provide a customized airflow.
		Airflow for frequently used areas	-	It provides cooling/heating airflow around the living area where the occupants are located by using the Vision sensor.
	Function setting	Human detection mode	Saving operation 1) OFF 2) On-Off power saving 3) Temperature control 4) Energy-saving operation based on activity	<Saving operation> 1) OFF : Not use the Human detection mode. 2) On-off power saving : If it is not detected for setting time, the product is turned off for power saving. 3) Temperature control : If it is not detected for setting time, the product controls the desired room temperature for power saving. 4) Energy-saving operation based on activity Energy can be saved by controlling the set temperature based on the amount of activity.
			Wind direction 1) OFF 2) Direct 3) Indirect	<Wind direction> 1) OFF :Do not use human detection wind direction control. 2) Direct : Direct wind operation based on human detection. 3) Indirect Indirect wind operation based on human detection.
	Installer setting	Human detection sensor	Installation status	Set the installation status & direction of human detection sensor. *Not installed / basic installation / 90° rotation installation
			Sensing Period	Set the detection period of the 'human detection sensor'. *5 s (*Not recommend) / 30 s(Default) / 1 min. / 3 min.
			Sensitivity	Set the sensitivity of the sensor. *Standard / Low sensitivity / High sensitivity
			Temperature control option	This function selects whether to keep the operation state after the temperature saving operation is completed. 1) Step0 : Operation is maintained when temperature power saving is completed. 2) Step1 : Operation is stopped when temperature power saving is completed.
			Detection areas setting	12x6 (Default) 6x6 : Reduce the area in square mode to use the human body detection function. Indoor floor area detection : This is a function to reduce the possibility of false detection due to a narrow space or a person outside the windshield. When the indoor floor area detection mode is used, only the human body in the floor area detected by the floor area detection algorithm is selectively determined as a person.

2.1 Product Feature

Category	Level1	Level2 (Code)	Level3 (Code)	DESCRIPTION
External equipment control	Mode setting	On/Off/Auto	-	You can control external devices such as lights, fans, and heaters by using the signals emitted by the remote controller. - Output specification : DC 11~12 V , Max 30 mA On : When it is set to “On”, it always performs the contact point output Off : When you set it to “Off”, it does not perform the contact point output in any case. Auto : If it is set to "Auto", a contact signal comes out according to the condition set in the on/off condition of the user setting.
	User setting	External device use	Not use / Use	-
		External device type	Motor/Lighting/ Fan/Heater/ Pump/Others	-
		On condition	-	The external device is turned on by the set mode or temperature condition.
		Off condition	-	The external device is turned off by the set mode or temperature condition.
Wi-Fi	Wi-Fi pairing	-	-	Enables the AP mode function of the Wi-Fi module connected to the indoor unit.
Zone / Damper Control	Zone Control (damper control)	-	-	You can monitor or set the status of zone.
	Function setting	Zone Name	-	If the zone control of the indoor unit is "New type", You can set the zone name. - Zone(default)/Office/Hallway/Lobby/Room/Living/Kitchen/Etc.
	Installer setting	Static pressure code : 06	V-H (06:01) F-H (06:02) V-L (06:03) F-L (06:04)	This function can be set only in the duct products. When using zone control, this is a function to change the fan air volume according to the number of damper opening and closing and the static pressure of the indoor fan. V-H : Variable - High static pressure F-H : Fixed - High static pressure V-L : Variable - Low static pressure F-L : Fixed - Low static pressure
		Zone Type code : 13	Old (default) (13:00) New (4 zone) (13:01)	This function sets the Zone type supported by indoor units such as "New" and "Old" type. 1) Old (default) - Only the condition of damper can be monitored. 2) New (4 zone) - 4 zone damper controller is installed. Both damper control and monitoring are possible.
			New (8 zone) (13:02)	3) New (8 zone) - 8 zone damper controller is installed. Both damper control and monitoring are possible.
		Zone number code : 14	2~4 for New 4 zone (14:02~14:04) 2~8 for New 8 zone	If zone control of indoor unit is "New type", set the number of installed zone damper.
		Static pressure step	Step 0 : Not use (32:00) Step 1~11 (32:01~32:11)	Static pressure step setting can be set only for duct products. This function can set the static pressure of the product in 11 steps. If Static pressure step setting(code:32) is used, the Static pressure(code:06) can not be used.
2 set control	Mode setting	Auto (dual set point)	-	The cooling and heating are automatically switched and operated through the desired temperature setting for heating and cooling.
		Override	-	It is a function to switch temporarily the status of the occupied/unoccupied of the set schedule. (occupied ↔ unoccupied)
		Home Leave(Setback)	-	When using the home leave mode(setback), the room temperature can be maintained at the temperature set by the user. Set the desired temperature in "Function Settings-Home leave set temperature". The home leave mode is canceled when this mode is released directly or when the occupied schedule starts.
		Hold	-	This function maintains the current operation status without executing schedule. It can be released only by releasing the hold function.
		Temporary	-	It is a function that operates differently from the scheduled schedule by user's arbitrary operation or external setting. When the schedule event time is reached, the schedule operation is performed and the temporary mode is released.
	Function setting	Dead band setting	0 ~10°F(0~5°C)	It is the function to set the difference value of minimum interval between cooling desired temperature and desired heating temperature.
		Override set time	30~240 minutes	In case of occupied/unoccupied switching, the product operation is maintained in the changed mode for the set time.
		Home leave set temperature	Cool/Heat	Set the desired cooling and heating temperature when the home leave mode is executed.
	Installer setting	Expand of temperature range code : 31	Clear (31:00) Set (31:01)	This function using in dual set point control mode. This function is used to expand of temperature range. Clear: 60~86°F (16~30°C) (Default) Set : 40~99°F (4~37.5°C)
		Guard timer code : 33	0 minute (33:00) 15 minutes (33:01) 30 minutes (33:02) 45 minutes (33:03) 60 minutes (33:04)	This is the function to set the minimum waiting time for cooling / heating switching during dual set mode operation. It protects the outdoor unit by setting the waiting time when changing the outdoor unit cycle.

2.1 Product Feature

Category	Level1	Level2 (Code)	Level3 (Code)	DESCRIPTION
Energy monitoring	Instantaneous power	-	-	It is a function that can check the current instantaneous power consumption.
	Display power consumption	Year on year (monthly)	Power consumption	The usage amount of the connected indoor unit is compared with the power consumption or operation time of the selected month of the previous year.
			Operation time	
		Weekly	Power consumption	Provides statistical information on the operating time and power consumption during the week of the connected indoor unit.
			Operation time	
		Monthly	Power consumption	Provides statistical information on the operating hours and power consumption of the connected indoor units during the month.
			Operation time	
		Yearly	Power consumption	Provides statistical information on the operating time and power consumption of the connected indoor unit in the year.
			Operation time	
	Energy saving	Temperature setback timer	-	It is the function to return to the desired temperature after the set time after the product operation for energy saving.
		Time limit control	-	This function allows the indoor unit to operate only for the set time and automatically turn off the product.(up to 9 hours)
	Energy setting	ODU capacity	-	This function sets the outdoor unit capacity manually to set the outdoor unit capacity reference value on the instantaneous power consumption display screen.
		Target instantaneous power	-	This is a function to manually set the Instantaneous power target.
		Target power consumption	Weekly/ Monthly/ Daily	This is a function to set the target power consumption for weekly / monthly / yearly to monitor the energy usage status. . Energy warning alarm popup will be activated based on setting usage amount. (up to 100 kWh per day)
		Target operation time	Weekly/ Monthly/ Daily	This is a function to set the target operation time for weekly / monthly / yearly to monitor the energy usage status. Energy warning alarm popup will be activated based on setting usage amount. (up to 24h per day)
		Alarm pop up	Power consumption	This function activates / deactivates the function that notifies the user when the target power amount / time is exceeded. - Period : Daily / Weekly / Monthly
			Operation time	
		Usage data initialization	-	Initializes all stored energy history data.
	Display DRED status	-	-	When the DRED(Demand response mode) step value is received from the indoor unit, the LCD displays DRED operation status.

2.1 Product Feature

Category	Level1	Level2 (Code)	Level3 (Code)	DESCRIPTION
Installer setting	Test run	code : 01	Cooling (01:01) Heating (01:02)	After installing the product, it is a pilot operation to check the installation status.
	Central control address	code : 02	-	It is function to set the central control address of the indoor unit when central controller is connected.
	ESP (fan RPM)	code : 03	Slow (03:01:xxx) Low (03:02:xxx) Med (03:03:xxx) High (03:04:xxx) Pow (03:05:xxx)	It is the function to set the fan speed value corresponding to each fan speed for easy installation
	Thermistor	code : 04	Remote controller (04:01) Indoor (04:02) 2TH (04:03)	There can be many differences between the temperature sensed at the installation location and the room temperature. To prevent this, it is a function to control the product close to the actual indoor temperature by comparing the temperature detected by the IDU with the temperature detected by the remote controller.
	Ceiling height	code : 05	Low (05:01) Standard (05:02) High (05:03) Very high (05:04)	It is a function to change the indoor fan air volume according to the ceiling height.
	RMC Master/slave	code : 07	Slave (07:00) Master (07:01)	This function sets configuration for the master/slave setting through the remote controller to use 2-remo control. Can not use this function on Dual set mode.
	Override Master/Slave	code : 08	Slave (08:00) Master (08:01)	The operation master / slave selection function is to avoid other mode operations It prevent the selection of opposite mode of the master indoor unit by the indoor units set as slaves.
	Dry contact mode	code : 09	Manual (09:00) Auto (09:01)	This function activates / deactivates the dry contact auto function. **When set as manual,** - Dry contact Off : Operation Off + Hard Lock - Dry contact On : Operation Off **When set as auto,** - Dry contact Off : Operation Off + Hard Lock - Dry contact On : Operation On
	Fixed air volume	code : 11	Variable (11:01) Fixed (11:02)	This function sets the fan speed of the indoor unit to variable / fixed. - Variable : It operates with low fan speed when compressor off. - Fixed : It operates with set fan speed even when compressor off.
	Display temperature unit	code : 12	Celsius (12:00) Fahrenheit (12:01)	This function sets the temperature unit displayed on the remote controller.
	Celcious temperature unit	code : 17	1°C (17:00) 0.5°C. (17:01)	This function is to set the unit for temperature control by 1°C or 0.5°C.
	Emergency heater	Not use	Not use (18:00:0)	Not use the emergency heater function
		Use	Fan Off (18:01:xx:0) Fan On (18:01:xx:1)	When the product is stopped due to an error during heating operation, this function enables the heater to be operated in an emergency in other error states other than a specific error in order to reduce the inconvenience felt by the customer as the indoor temperature continues to decrease. * xx means the step value corresponding to the outdoor temperature that determines whether to enter or cancel the function. - In case of 3 steps, xx can be set 1~3 For 16 steps xx can be set to 1~15
	Function control during group control	code : 19	Type 0 : Use common functions (19:00) Type 1 : Use expanded functions (19:01)	This function enables the control of the common functions, or enables some functions based on the master indoor unit during the group control.
	Option Unit	Air purify (code : 20)	Not installed (20:00) Installed (20:01)	When installing or removing optional devices It is a function to set whether or not to mount.
		Heater (code : 21)	Not installed (21:00) Installed (21:01)	When installing or removing optional devices It is a function to set whether or not to mount.
		Humidifier (code : 22)	Not installed (22:00) Installed (22:01)	When installing or removing optional devices It is a function to set whether or not to mount.
		Elevation grill (code : 23)	Not installed (23:00) Installed (23:01)	The front panel can be automatically lowered by using the elevating grill for easy filter cleaning in the Cassette product installed on the ceiling.
		Ventilation kit (code : 24)	Not installed (24:00) Installed (24:01)	When installing or removing optional devices It is a function to set whether or not to mount.
		Aux Heater (code : 25)	Step 0 : Not installed (25:00) Step 1 : Installed (normal) (25:01) Step 2 : Installed (Duct) (25:02)	When installing or removing optional devices It is a function to set whether or not to mount.
		Refrigerant leakage detection sensor (code : 29)	Not installed (29:00) Installed (29:01)	When a leak occurs in the indoor unit flare connection and welding part, the refrigerant leak detection sensor detects it and prevents additional refrigerant leakage.

2.1 Product Feature

Category	Level1	Level2 (Code)	Level3 (Code)	DESCRIPTION
Installer setting	IDU address verification (Auto addressing)	code : 26	(26:xx)	The result of auto addressing of the outdoor unit can be confirmed with the remote controller. *xx means the address of IDU.
	SW version information	code : 30	-	Check the SW version
	Fan speed in cooling thermal off	code : 35	Fan speed Low (35:00) Fan Off (35:01) Fan speed with setting value (35:02)	This function sets the operation of indoor fan during cooling thermal off operation. - In case of a single package, the indoor fan is turned on regardless of whether the comp is on/off. - In case of DX ventilation, only the supply fan operates according to the setting. - For FCU, In the thermal On state, the set wind operation is performed and in the Thermal Off state, the fan speed is performed with low.
	Primary Heater	code : 36	Not use (36:00) Use (36:01)	This is a function to use the external auxiliary heater as the main heating rather than the outdoor unit cycle when heating the indoor unit. To use the primary heater as main, set to "USE"
	Air conditioner fan operation interlocked with ventilation	code : 38	On (38:00) Off (38:01)	When the air conditioner is in the off state, the fan of the air conditioner operates if the ventilation product is operated. In order to prevent dust from falling while the fan is operating, the operating conditions of the air conditioner fan can be set when ventilation is interlocked. If it is set to "on", fan operates with slow fan speed.
	IDU Auto start	code : 39	Use (39:00) Not use (39:01)	The Auto start function of the indoor unit is a function to automatically operate the indoor unit to the state before the power failure when power is re-applied after a sudden power cut. You can select whether to use the auto start function or not.
	Occupancy duration time	code : 40	0 Minutes (40:00) 10 Minutes (40:01) 30 Minutes (40:02) 60 Minutes (40:03)	It is difficult to judge the correct occupancy / absence when the room information is rapidly changed from the room sensor in the installation environment configured with the form of the indoor unit, the dry contact, and the room sensor. For this purpose, It is a function to set the holding time to judge absence or occupancy.
	CN_CC	code : 41	D/C Automatic (41:00) D/C Manual uninstalled (41:01) D/C Manual installed (41:02) Simple On/Off (41:03)	It is the function to set the usage of the indoor unit's CN_CC port.' - D/C Auto installation : Automatically recognizes dry contact installation status. - D/C Manual uninstalled : Set to the uninstalled (unused) state regardless of whether dry contact is installed or not. - D/C Manual installed : Set to the installed (used) state regardless of whether dry contact is installed or not. - Simple On/Off : It is used for Programmable DI / DO (Simple On / Off).
	Calculated power consumption data display	code : 43	Use (43:00) Not use (43:01)	This function can set to display energy data which ODU estimated power consumption data without wattmeter.
	Comfort cooling step value setting	code : 44	Power saving effect low (44:00) Power saving Effect medium (44:01) Power saving Effect high (44:02)	The comfort cooling is the function to automatically control the cooling strength to maintain the pleasant feeling without turning off the product after the indoor temperature reached the desired temperature. It is a function to set the step value of the power-saving effect of Comfort cooling. (When ODU set continuous cooling functions through installer setting, can use this function)
	Fan continuous operation	code : 46	Clear (46:00) Set (46:01)	It is a function to maximize the cooling / heating efficiency by operating the fan of the indoor unit longer than the existing logic in the outdoor unit. You can use this function when dip switch is set for using "FAN continuous mode"
	ODU function master	code : 47	Slave (47:00) Master (47:01)	The outdoor unit functions that can be set and used only by the outdoor unit DIP Switch setting can now be controlled / monitored by the remote controller after the Multi V 5 series. We can designate the master indoor unit which can set the outdoor unit functions to prevent the control from being possible in various indoor units. Below functions can set by only Master(47:01) - SLC - Low noise operation time - Refregant noise reduction - Low noise mode priority - Defrost mode
	ODU Refrigerant noise reduction	code : 48	Not use(48:00) Noise reduction low (48:01) Noise reduction high (48:02)	It is a function to set the refrigerant noise reduction function of the outdoor unit. It can be used at the noise sensitive areas. *Only for Master indoor unit set for ODU function control, can use this function.
	Defrost mode	code : 49	Not use (49:00) Forced snow removal (49:01) Quick defrost (49:02) Foced snow removal + Quick defrost (49:03)	This function sets the defrost mode operation of the outdoor unit. *Only for Master indoor unit set for ODU function control, can use this function.

2.1 Product Feature

Category	Level1	Level2 (Code)	Level3 (Code)	DESCRIPTION
Installer setting	Advanced fanspeed "auto"	code : 51	Not use(51:00) Use (51:01)	It is the function to automatically change the fan speed according to the difference between the indoor temperature and the desired temperature.
	CN_EXT port setting on indoor unit	code : 52	Not use (52:00) : Use installer setting code 42 setting. Simple On/Off (52:01) Simple Drycontact (02) Single Emergency stop (03) Occupied/Unoccupied (04) All emergency stop (05) Window contact (06) Window contact lock (07)	Trough the CN_EXT port in the IDU's PCBA, We can control it as Digital input without Dry contact module. This function determines the usage of the contact port (CN_EXT) mounted on the indoor unit PCB. **- Not use** : Use CN_CC installer setting(code 42) setting. **- Simple On/Off** **- Simple Dry contact** : Operation on/off and Hard lock can be used. When the contact is open, operation off + HL **- Single Emergency stop** : When detecting the emergency(open) status, a detected indoor unit will be operation off + HL **- Occupied/Unoccupied** : For 2set point combination, indoor unit determine the occupied sensor and send the signal to remote controller and central controller. **- All emergency stop** : When one of the indoor unit detected the emergency(open) status, all the indoor unit will be operation off + HL until that unit is released. **- Window contact** **- Window contact lock**
	ODU cycle priority (Mode standby)	code : 56	1. Mode. - Not use (56:00) - Standby (56:01) - Cool (56:02) 2. Thermal off maintenance time for priority cooling mode - Step0 : 45 minutes (56:02:0) -Step1 : 30 minutes (56:02:1) -Step2 : 60 minutes (56:02:2) - Step3 : 90 minutes (56:02:3) - Step4 : 120 minutes (56:02:4) - Step5 : Not use (56:02:5)	It is the function to set whether to use the standby mode or priority cooling function of the outdoor unit and to set the cooling off thermal time when the priority cooling is set. - **Standby mode** : When using Multi V H/P product, if you select the operation mode opposite to the outdoor unit cycle, the indoor unit will be on standby to prevent the opposite mode operation. During standby mode, indoor unit operates as Fan off + Th off until its cycle matches with the outdoor unit cycle. - **Priority cooling** : In MultiV H/P product, when there is a customer (indoor unit) who wants a cooling mode during the heating cycle, can change the cycle by giving priority to cooling. In other indoor units, heating is maintained using a heater. The priority cooling function is available when the emergency heater is set to use (18:01). - **Maintenance time** : Once outdoor unit change over to cooling by cooling priority, it returns to heating cycle after set time.
	Outdoor temp for heater stages	code : 57	Not use (57:01:0) Not use (57:01:1)	It is a function to set the outdoor unit cycle and the heater switching operation criterion according to the outdoor temperature condition. This function is available when the Aux heater is set to use (25:01).
			Temperature setting (57:02) - T1 temp. : 57:02:xx - △T temp. : 57:03:xx	If the user set outdoor temperature T1 and △T, Indoor unit will select heating stage from ODU operation, heater operation or OUD+heater - T1 setting range : -23 ~ 16°C - △T setting range : 0 ~ 35°C ① (T1 + T < Outdoor temperature) : Use only ODU ② (T1 < Outdoor temperature < T1 + △T) : Use both heater and ODU ③ (Outdoor temperature < T1) : Use only heater
			Temperature setting - T1 / T2 temp. * For version 2.09 or later, You can select heating stages manually. - Heat pump / Heater / Heater + Heat pump	If the user set outdoor temperature T1 and T2, Indoor unit will select heating stage from ODU operation, heater operation or OUD+heater - T1 setting range : -23 ~ 16°C - T2 setting range : -23 ~ 51°C ① (T2 < Outdoor temperature) : Use only ODU ② (T1 < Outdoor temperature < T2) : Use both heater and ODU ③ (Outdoor temperature < T1) : Use only heater
	Low noise mode priority	code : 58	ODU (58:00) RMC (58:01)	It is the function to set the low noise mode control main agent. (It is the function to set that only one of the outdoor unit / remote controller can control the low noise operation.) **ODU** : It is controlled in the outdoor unit itself according to the outdoor unit PCB's Dip switch Setting. - "Function setting – Low noise operation time" function will be deactivated. **RMC** : Ignore the outdoor unit PCB's DIP Switch Setting. - "Function setting – Low noise operation time" function will be activated. * If you set Master indoor unit setting for ODU function control, you can use this function
	Humidity sensing location	code : 59	RMC (59:00) IDU (59:01)	It is the function to set the position of humidity detection. The humidity value of the set position is displayed on the screen.
	Hot water coil(CN-PTC)	code : 60	Normal (60:00) Special (60:01)	When setting the CN-PTC (hot water coil), the indoor unit operates by fan mode and heating operation is performed using only the hot water coil. **Normal** : Not use the hot water coil **Special** : Use the hot water coil. Auxiliary heating interlock activated
	Indoor temperature offset	code : 61	Offset temp setting (61:xx)	It is the function to apply the offset to the temperature value detected from the remote control. - Set range : -5°C ~ +5°C (by 0.5°C)

2.1 Product Feature

Category	Level1	Level2 (Code)	Level3 (Code)	DESCRIPTION
Installer setting	Humidity offset	code : 62	Offset humidity setting (62:xx)'	It is the function to apply the offset to the humidity value detected by the remote control. - Set range : 10% ~ +10% (by 1%)
	Lamp color	-	Auto/RGB/YGG	It is a function to classify the display type of the panel.
	Dust step color	-	Type1 : 4 steps (for Korea) Type2 : 4 steps (for Global) Type3 : 6 steps (for China)	It is a function to set the color display type for each fine dust stage. It supports selection of color table according to national color guide difference. Type1 : Blue-Green-Orange-Red Type2 : Green-Yellow-Orange-Red Type3 : Green-Yellow-Orange-Red-Pink-Purple
	Dust lamp always displayed	-	Use Not use	It is a function to set to always display the status of fine dust on the display of products equipped with a dust sensor. **Use** : Always display the dust status on LED **Not use** : Display operation mode.
	FAN operation time	-	-	It is a function to display the fan operation time installed in the indoor unit and to measure the life of the motor.
	IDU operation time	-	-	This is a function to display the operation time of the indoor unit.
	Master IDU for room temp. setting	-	Not use Master Slave	In case that there is no wired remote control and room temperature is set to detect by IDU, It is a function to improve the phenomenon that it can not be Th On because of highly sensed room temperature. It can improve the weak heating by operating the product based on the temperature detected by the indoor unit set as the master. **Not use** **Master** : Use this IDU as base room temperature. **Slave** : Use the reference temperature of the master indoor unit
	Auto ESP	code : 68	Not use (68:00) Auto (68:01) Manual (68:02:xx)	This function automatically sets the rotation speed of the fans corresponding to each step of rated airflow for easy installation. **Auto** : Automatically select the voltage. **Manual** : xx means the voltage. Selects the voltage.(190~270 V) After selecting the voltage setting, the product will automatically operate and automatically set the rotation speed for each fan speed - High, Medium, and Low. ❉ Check the product type and select “Auto” for a Single product and “Manual” for a Multi V product.
			Success (68:03) Fail (68:04)	Once the set-up is complete, you can enter installer setting to check whether the set-up has succeeded or failed. If the code value is 68:03, setting is successful If the code value is 68:04, setting is failed. If it fails, you cannot use the Auto ESP function. Instead of Auto ESP, the conventional ESP setting method can be used.
	UVnano	-	Not Installed Installed	UVnano is a function that sterilizes fans or filters using UV LEDs at regular intervals during air conditioning operation. Set whether to mount option unit.
	Filter box	-	Not Installed Installed	The filter box can be installed for use with UVnano function on duct type products. This is an optional kit.
	Server room	-	1) Usage setting - Enable/Disabled - Number of IDU 2) IDU address 3) Interval 4) Overlap 5) Temperature difference	**What is Alternating Operation?** By preventing excessive operation of only certain products, product performance and the server room environment can be maintained stably. **What is Backup Operation?** 1. **Error backup operation** : When an error occurs, error backup operation is performed to maintain the temperature by automatically operating the standby indoor unit. When all indoor unit errors are cleared, alternating operation is restarted. 2. **Capacity backup operation** : When the difference between the indoor temperature and the desired temperature detected by each indoor unit is greater than or equal to the “Set Temperature Difference Value”, the standby unit is automatically operated and capacity backup operation is performed to reach the optimal temperature.
				This is the function to set the “alternating and backup operation” to keep the temperature of the server room stable. The server room environment is controlled by the set conditions. 1) **Usage setting** - Enable/Disabled - Number of IDU : Setting range (2~4 unit) 2) **IDU address** : It means the central control address of each IDU. - Setting range is 00~FF. 3) **Interval** : Set the cycle time for alternating operation. After the set time has elapsed, the next indoor unit group will start to operate. - Setting range is 1~999 hours. 4) **Overlap** : Before alternating operation, you can set the time for all indoor units to operate to maintain the temperature. - Setting ragne is 1~59 minutes. 5) **Temperature difference** : When the difference between the indoor temperature and the desired temperature detected by each indoor unit is greater than or equal to the “Set Temperature Difference Value”, the standby unit is automatically operated and capacity backup operation is performed to reach the optimal temperature. - Setting range : 1~6 degrees.

2.1 Product Feature

2.1.3 Compatibility list _ Function

Functions				Wired remote controllers				
Function list				Premium	Deluxe	Standard		Simple
								
Category	Level1	Level2	Level3	PREMTA000	PREMTA201	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q/W PQRCHCA0Q/W
Basic function	Temp setting	Single set(1 set)	-	●	●	●	●	●
	Operation mode	Cooling	-	●	●	●	●	●
		Dry	-	●	●	●	●	●
		Monsoon dry *Only for India	-	●	●	●	●	X
		Heating	-	●	●	●	●	●
		Fan	-	●	●	●	●	●
		AI or Auto changeover (single set point)	AI for C/O Auto Changeover for H/P	●	●	●	●	●
		Power cooling	-	●	●	●	●	●
		Power heating	-	X	●	●	X	X
		Himalaya cooling *Only for India	-	● Refer sub function	●	●	● Refer sub function	X
	Display indoor temp.	-	-	●	●	●	●	●
	Fan Speed	Slow	-	●	●	●	●	●
		Low	-	●	●	●	●	●
		Medium	-	●	●	●	●	●
		High	-	●	●	●	●	●
		Super high	-	●	●	●	●	●
		Auto	-	●	●	●	●	X
	Wind direction	Up-down swing	-	●	●	●	●	● Not display the icon
		Left-right swing	-	●	●	●	●	X
		Comfort wind(Swirl)	-	●	●	●	●	X
		Indirect wind	-	●	●	●	●	X
		Direct wind	-	●	●	●	●	X
		Smart mode	-	●	●	●	X	X
		Refresh mode	-	●	●	●	X	X
Sub function	Air Purify	-	-	●	●	●	●	●
	Energy saving cooling	-	-	●	●	●	●	X
	Robot cleaning(manual)	-	-	●	●	●	●	X
	Electric Heater	-	-	●	●	●	●	●
	Humidification	-	-	●	●	●	●	X
	Fan auto	-	-	●	●	●	●	X
	Comfort cooling *ODU Function	-	-	●	●	●	●	X
	Ventilation kit	-	-	●	●	●	●	X
	Mosquito away	*Only for India	-	●	●	●	●	X
Function setting	Vane angle	-	-	●	●	●	●	●
	Elevation grill control	Up/Down/Stop	-	●	●	●	●	X
	Auto drying	-	-	●	●	●	●	X
	Robot cleaning	Auto/Manual	-	●	●	●	●	X
	Auto swing	-	-	● Refer to Wind direction (Basic function)	● Refer to Wind direction (Basic function)	● Refer to Wind direction (Basic function)	● Refer to Wind direction (Basic function)	● (Top-Down) Not display the icon

2.1 Product Feature

Functions				Wired remote controllers				
				Premium	Deluxe	Standard		Simple
Function list								
Category	Level1	Level2	Level3	PREMTA000	PREMTA201	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q/W PQRCHCA0Q/W
Function setting	Filter alarm	Display remain time to cleaning alarm	-	●	●	●	●	X
		Filter alarm release	-	●	●	●	●	X
	Change temperature	Setting range : 1~7 °C	-	●	●	●	●	X
	Comfort cooling	Step1 : Power saving effect low Step2 : Power saving effect medium Step3 : Power saving effect high	-	●	●	●	● Refer to installer setting(code 44)	X
	ODU Refrigerant noise reduction	Step 0 : Not use Step 1 : Noise reduction low Step 2 : Noise reduction high	-	●	●	●	● Refer to installer setting(code 48)	X
	Defrost mode	Step 0 : Not use Step 1: Forced snow removal Step 2 : Quick defrost Step 3 : Forced snow removal + Quick defrost	-	●	●	●	● Refer to installer setting(code 49)	X
	Smart Load Control	Step 0 : Not use Step 1~4	-	●	●	●	●	X
	Low noise mode time	-	-	●	●	●	X	X
	Advanced fan speed 'auto'	Set Clear	-	●	●	●	● Refer to installer setting(code 51)	X
	Discharge direction	-	-	X	●	●	X	X
	Economizer	Not use Auto Step 1 Step 2	-	X	●	●	X	X
	My favorite tempera-ture	Clear Set	-	X	●	●	X	X
	AI indoor Space Care	Indoor space search	-	X	●	●	X	X
		Group number	-	X	●	●	X	X
	UVnano	Use / Not use	-	X	●	●	X	X
Lock function	All lock (Child lock)	-	-	●	●	●	●	●
	Individual lock	On/Off lock	-	●	●	●	X	X
		Mode lock	-	●	●	●	X	X
		Set temp. range lock	-	●	●	●	X	X
Schedule & Timer	Weekly schedule	-	-	●	●	●	●	X
	Annual schedule	-	-	●	●	●	X	X
	Holyday setting	-	-	●	●	●	●	X
	Daily timer	On timer	-	●	●	●	●	X
		Off timer	-	●	●	●	●	X
	Timer	Simple timer	-	●	●	●	●	X
		Sleep timer	-	●	●	●	●	X

2.1 Product Feature

Functions				Wired remote controllers				
Function list				Premium	Deluxe	Standard		Simple
								
Category	Level1	Level2	Level3	PREMTA000	PREMTA201	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q/W PQRCHCA0Q/W
Human Detection function	Air flow setting	Human detected indirect wind	-	X	●	●	X	X
		Human detected direct wind	-	X	●	●	X	X
		Airflow based on activity	-	X	●	●	X	X
		Airflow for frequently used areas	-	X	●	●	X	X
	Function setting	Human detection mode	Saving operation 1) OFF 2) On-Off power saving 3) Temperature control 4) Energy-saving operation based on activity	X	●	●	X	X
			Wind direction 1) OFF 2) Direct 3) Indirect	X	●	●	X	X
	Installer setting	Human detection sensor	Installation status	X	●	●	X	X
			Sensing Period	X	●	●	X	X
			Sensitivity	X	●	●	X	X
			Temperature control option	X	●	●	X	X
			Detection areas setting	X	●	●	X	X
External equipment control	Mode setting	On/Off/Auto	-	X	X	●	X	X
	User setting	External device use	Not use / Use	X	X	●	X	X
		External device type	Motor/Lighting/ Fan/Heater/ Pump/Others	X	X	●	X	X
		On condition	-	X	X	●	X	X
		Off condition	-	X	X	●	X	X
Wi-Fi	Wi-Fi pairing	-	-	●	●	●	●	●
	Embedded Wi-Fi	-	-	X	●	X	X	X
Zone / damper Control	Zone Control (damper control)	-	-	●	●	●	●	X
	Function setting	Zone Name	-	●	●	●	X	X
	Installer setting	Static pressure (06)	V-H (06:01) F-H (06:02) V-L (06:03) F-L (06:04)	●	●	●	●	●
		Zone Type (13)	Old (default) (13:00) New (4 zone) (13:01)	●	●	●	●	X
			New (8 zone) (13:02)	●	●	●	X	X
		Zone number (14)	2~4 for New 4 zone (14:02~14:04)	●	●	●	●	X
			2~8 for New 8 zone	●	●	●	X	X
		Static pressure step	Step 0 : Not use (32:00) Step 1~11 (32:01~32:11)	●	●	●	●	●

2.1 Product Feature

Functions				Wired remote controllers				
				Premium	Deluxe	Standard		Simple
Function list								
Category	Level1	Level2	Level3	PREMTA000	PREMTA201	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q/W PQRCHCA0Q/W
2 set control	Mode setting	Auto (dual set point)	-	●	●	●	X	X
		Override	-	●	●	●	X	X
		Home Leave(Setback)	-	●	●	●	X	X
		Hold	-	●	●	●	X	X
		Temporary	-	●	X	X	X	X
	Function setting	Dead band setting	0 ~10°F(0~5°C)	●	●	●	X	X
		Override set time	30~240 minutes	●	●	●	X	X
		Home leave set temperature	Cool/Heat	●	●	●	X	X
	Installer setting	Expand of temperature range code : 31	Clear (31:00) Set (31:01)	●	●	●	X	X
		Guard timer code : 33	0 minute (33:00) 15 minutes (33:01) 30 minutes (33:02) 45 minutes (33:03) 60 minutes (33:04)	●	●	●	X	X
Energy monitoring	Instantaneous power	-	-	X	▲	▲	▲	X
	Display power consumption	Year on year (monthly)	Power consumption	▲	▲	▲	X	X
			Operation time	▲	▲	▲	X	X
		Weekly	Power consumption	▲	▲	▲	X	X
			Operation time	▲	▲	▲	X	X
		Monthly	Power consumption	▲	▲	▲	X	X
			Operation time	▲	▲	▲	X	X
		Yearly	Power consumption	▲	▲	▲	X	X
			Operation time	▲	▲	▲	X	X
	Energy saving	Temperature setback timer	-	X	X	●	X	X
		Time limit control	-	●	X	●	X	X
	Energy setting	ODU capacity	-	X	X	▲	X	X
		Target instantaneous power	-	X	X	▲	X	X
		Target power consumption	Weekly/Monthly/ Daily	▲	X	▲	X	X
		Target operation time	Weekly/Monthly/ Daily	●	X	●	X	X
		Alarm pop up	Power consumption	▲	X	▲	X	X
			Operation time	●	X	●	X	X
		Usage data initialization	-	●	●	●	●	X
	Display DRED status	-	-	●	●	●	●	X

❊ ▲ : When install the additional kit, you can use these functions.

2.1 Product Feature

Functions				Wired remote controllers				
				Premium	Deluxe	Standard		Simple
Function list								
Category	Level1	Level2 (Code)	Level3 (Code)	PREMTA000	PREMTA201	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q/W PQRCHCA0Q/W
Installer setting	Test run	code : 01	Cooling (01:01) Heating (01:02)	●	●	●	●	●
	Central control address	code : 02	-	●	●	●	●	●
	ESP (fan RPM)	code : 03	Slow (03:01:xxx) Low (03:02:xxx) Med (03:03:xxx) High (03:04:xxx) Pow (03:05:xxx)	●	●	●	●	●
	Thermistor	code : 04	Remote controller (04:01) Indoor (04:02) 2TH (04:03)	●	●	●	●	●
	Ceiling height	code : 05	Low (05:01) Standard (05:02) High (05:03) Very high (05:04)	●	●	●	●	●
	RMC Master/slave	code : 07	Slave (07:00) Master (07:01)	●	●	●	●	●
	Override Master/Slave	code : 08	Slave (08:00) Master (08:01)	●	●	●	●	X
	Dry contact mode	code : 09	Manual (09:00) Auto (09:01)	●	●	●	●	X
	Fixed air volume	code : 11	Variable (11:01) Fixed (11:02)	●	●	●	●	X
	Display temperature unit	code : 12	Celsius (12:00) Fahrenheit (12:01)	●	● Refer to user setting	● Refer to user setting	●	●
	Celcious temperature unit	code : 17	1°C (17:00) 0.5°C. (17:01)	●	● Refer to user setting	● Refer to user setting	●	●
	Emergency heater	Not use	Not use (18:00:0)	●	●	●	●	X
		Use	Fan Off (18:01:xx:0) Fan On (18:01:xx:1)	●	●	●	●	X
	Function control during group control	code : 19	Type 0 : Use common functions (19:00) Type 1 : Use expand-ed functions (19:01)	●	●	●	●	X
	Option Unit	Air purify (code : 20)	Not installed (20:00) Installed (20:01)	●	●	●	●	X
		Heater (code : 21)	Not installed (21:00) Installed (21:01)	●	●	●	●	X
		Humidifier (code : 22)	Not installed (22:00) Installed (22:01)	●	●	●	●	X
		Elevation grill (code : 23)	Not installed (23:00) Installed (23:01)	●	●	●	●	X
		Ventilation kit (code : 24)	Not installed (24:00) Installed (24:01)	●	●	●	●	X
		Aux Heater (code : 25)	Step 0 : Not installed (25:00) Step 1 : Installed (normal) (25:01) Step 2 : Installed (Duct) (25:02)	●	●	●	●	X
		Refrigerant leakage detection sensor (code : 29)	Not installed (29:00) Installed (29:01)	●	●	●	●	●

2.1 Product Feature

Functions				Wired remote controllers				
				Premium	Deluxe	Standard		Simple
Function list								
Category	Level1	Level2 (Code)	Level3 (Code)	PREMTA000	PREMTA201	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q/W PQRCHCA0Q/W
Installer setting	IDU address verification (Auto addressing)	code : 26	(26:xx)	●	●	●	●	X
	SW version information	code : 30	-	●	Refer to setting - SVC	Refer to setting - SVC	●	●
	Fan speed in cooling thermal off	code : 35	Fan speed Low (35:00) Fan Off (35:01) Fan speed with setting value (35:02)	●	●	●	●	X
	Primary Heater	code : 36	Not use (36:00) Use (36:01)	●	●	●	●	X
	Air conditioner fan operation interlocked with ventilation	code : 38	On (38:00) Off (38:01)	●	●	●	●	X
	IDU Auto start	code : 39	Use (39:00) Not use (39:01)	●	●	●	●	X
	Occupancy duration time	code : 40	0 Minutes (40:00) 10 Minutes (40:01) 30 Minutes (40:02) 60 Minutes (40:03)	●	●	●	●	X
	CN_CC	code : 41	D/C Automatic (41:00) D/C Manual uninstalled (41:01) D/C Manual installed (41:02) Simple On/Off (41:03)	●	●	●	●	X
	Calculated power comsumption data display	code : 43	Use (43:00) Not use (43:01)	X	●	●	●	X
	Comfort cooling step value setting	code : 44	Power saving effect low (44:00) Power saving Effect medium (44:01) Power saving Effect high (44:02)	● Refer to function setting	● Refer to function setting	● Refer to function setting	●	X
	Fan continuous operation	code : 46	Clear (46:00) Set (46:01)	●	●	●	●	X
	ODU function master	code : 47	Slave (47:00) Master (47:01)	●	●	●	●	X
	ODU Refrigerant noise reduction	code : 48	Not use(48:00) Noise reduction low (48:01) Noise reduction high (48:02)	● Refer to function setting	● Refer to function setting	● Refer to function setting	●	X
	Defrost mode	code : 49	Not use (49:00) Forced snow removal (49:01) Quick defrost (49:02) Foced snow removal+Quick defrost (49:03)	● Refer to function setting	● Refer to function setting	● Refer to function setting	●	X
	Advanced fanspeed "auto"	code : 51	Not use(51:00) Use (51:01)	● Refer to function setting	● Refer to function setting	● Refer to function setting	●	X
	CN_EXT port setting on indoor unit	code : 52	Not use (52:00) : Use installer setting code 42 setting. Simple On/Off (52:01) Simple Drycontact (02) Single Emergency stop (03) Occupied/Unoccupied (04) All emergency stop (05) Window contact (06) Window contact lock (07)	●	●	●	●	X

2.1 Product Feature

Functions				Wired remote controllers				
				Premium	Deluxe	Standard		Simple
Function list								
Category	Level1	Level2 (Code)	Level3 (Code)	PREMTA000	PREMTA201	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q/W PQRCHCA0Q/W
Installer setting	ODU cycle priority (Mode standby)	code : 56	1. Mode. - Not use (56:00) - Standby (56:01) - Cool (56:02) 2. Thermal off maintenance time for priority cooling mode -Step0 : 45 minutes (56:02:0) -Step1 : 30 minutes (56:02:1) -Step2 : 60 minutes (56:02:2) -Step3 : 90 minutes (56:02:3) -Step4 : 120 minutes (56:02:4) -Step5 : Not use (56:02:5)	●	●	●	●	X
	Outdoor temp for heater stages	code : 57	Not use (57:01:0) Not use (57:01:1)					
			Temperature setting (57:02) - T1 temp. : 57:02:xx - △T temp. : 57:03:xx	●	X	X	●	
			Temperature setting - T1 / T2 temp. * For version 2.09 or later, You can select heating stages manually. - Heat pump / Heater / Heater + Heat pump	X	●	●	X	X
	Low noise mode priority	code : 58	ODU (58:00) RMC (58:01)	●	●	●	X	X
	Humidity sensing location	code : 59	RMC (59:00) IDU (59:01)	●	●	●	X	X
	Hot water coil (CN-PTC)	code : 60	Normal (60:00) Special (60:01)	X	●	●	●	X
	Indoor temperature offset	code : 61	Offset temp setting (61:xx)	●	●	●	X	X
	Humidity offset	code : 62	Offset humidity setting (62:xx)'	●	●	●	X	X
	Lamp color	-	Auto/RGB/YGG	X	●	●	X	X
	Dust step color	-	Type1 : 4 steps (for Korea) Type2 : 4 steps (for Global) Type3 : 6 steps (for China)	X	●	●	X	X
	Dust lamp always displayed	-	Use Not use	X	●	●	X	X
	FAN operation time	-	-	X	●	●	X	X
	IDU operation time	-	-	X	●	●	X	X
	Master IDU for room temp. setting	-	Not use Master Slave	X	●	●	X	X

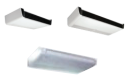
2.1 Product Feature

Functions				Wired remote controllers				
Function list				Premium	Deluxe	Standard		Simple
								
Category	Level1	Level2 (Code)	Level3 (Code)	PREMTA000	PREMTA201	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q/W PQRCHCA0Q/W
Installer setting	Auto ESP	code : 68	Not use (68:00) Auto (68:01) Manual (68:02:xx)	X	●	●	X	●
			Success (68:03) Fail (68:04)	X	●	●	X	●
	UVnano	-	Not Installed Installed	X	●	●	X	X
	Filter box	-	Not Installed Installed	X	●	●	X	X
	Server room	-	1) Usage setting - Enable/Disabled - Number of IDU 2) IDU address 3) Interval 4) Overlap 5) Temperature differ-ence	X	X	●	X	X
	Noise Target Control	-	Use Not use Decibel: 0/55/60/65/70	X	●	●	X	X

2.1 Product Feature

2.1.3 Compatibility list with Multi V

◎ : Compatibility is available but more detailed functions refer to MULTI V 4series IDU features.
● : Compatibility is available. X : Compatibility is unavailable. ▲ : Need to set-up the IR Receiver product

			Premium	Deluxe	Standard				Simple			
			PREMTA000	PREMTA201	PREMTBB10	PREMTB100	PREMTBB01	PREMTB001	PQRCVCL0Q	PQRCVCL0QW	PQRCHCA0Q	PQRCHCA0QW
												
Cassette	4way 	before Gen4	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
	2way/1way 	before	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
Duct	High sensible 	Gen4	◎	◎	◎		◎		●		●	
	High Mid 	before Gen4	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
	Low 	before Gen4	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
	Built-in 	before Gen4	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
FAU		Gen2	●	●	●		●		●		●	
Ceiling Suspended		before Gen4	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
Console		before Gen4	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
Floor Standing		before Gen4	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
		before Gen4	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
Wall Mounted		before Gen4	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
		Gen2	●	●	●		●		●		●	
		Gen4	◎	◎	◎		◎		●		●	
		before Gen4	●	●	●		●		●		●	
		from Gen4	◎	◎	◎		◎		●		●	
Hydro Kit			X	X	X		X		X		X	
Eco V			●	●	●		●		X		X	
Eco V DX			●	●	●		●		X		X	

2.1 Product Feature

2.1.3 Compatibility list with Multi & Single IDU

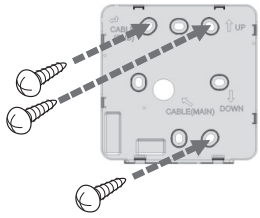
● : Compatibility is available. X : Compatibility is unavailable ▲ : Need to set-up the IR Receiver product.

			Premium	Deluxe	Standard				Simple			
			PREMTA000	PREMTA201	PREMTBB10	PREMTB100	PREMTBB01	PREMTB001	PQRCVCL0Q	PQRCVCL0QW	PQRCHCA0Q	PQRCHCA0QW
												
Single Split (H-Inverter)		Cassette	●	●	●		●		●		●	
		Duct	●	●	●		●		●		●	
		Ceiling Suspended	●	●	●		●		●		●	
Single Split (Standard Inverter)		Cassette	●	●	●		●		●		●	
		Duct High	●	●	●		●		●		●	
		Duct Mid	●	●	●		●		●		●	
		Duct Low	●	●	●		●		●		●	
		Ceiling Suspended	●	●	●		●		●		●	
		Console	●	●	●		●		●		●	
		Wall Mounted	●	●	●		●		●		●	
		Floor Standing	●	●	●		●		●		●	
Multi		4way	●	●	●		●		●		●	
		1way	●	●	●		●		●		●	
		Duct Mid	●	●	●		●		●		●	
		Duct Low	●	●	●		●		●		●	
		Ceiling Suspended	●	●	●		●		●		●	
		Console	●	●	●		●		●		●	
		Wall Mounted	●	●	●		●		●		●	
			●	●	●		●		●		●	
Therma V		Split Mid Temp	X	X	X		X		X		X	
		Split High Temp	X	X	X		X		X		X	
		Mono block	X	X	X		X		X		X	

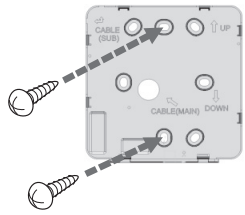
2.2 Example of installing

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.



<4 socket reclamation box installation>

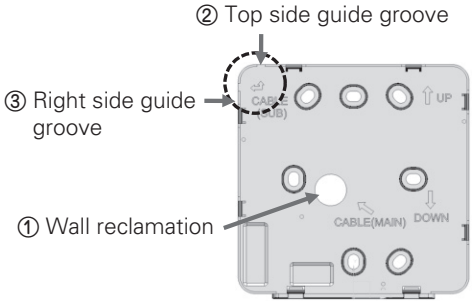


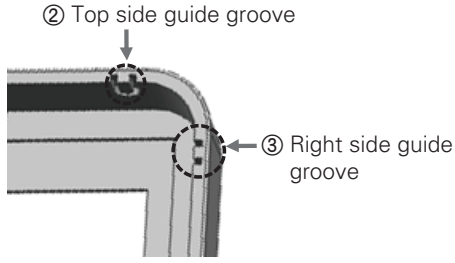
<2 socket reclamation box installation>

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.
- Reclamation to the surface of the wall.





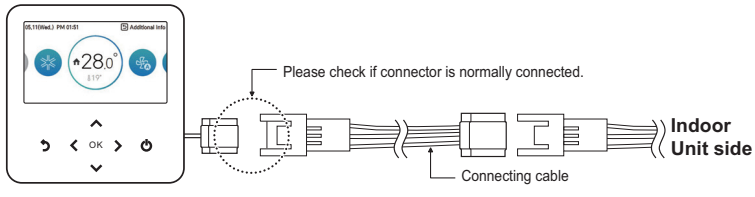
3. Please fix remote controller upper part into the setup board attached to the surface of the wall, as the picture below, and then, connect with setup board by pressing lower part.

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

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

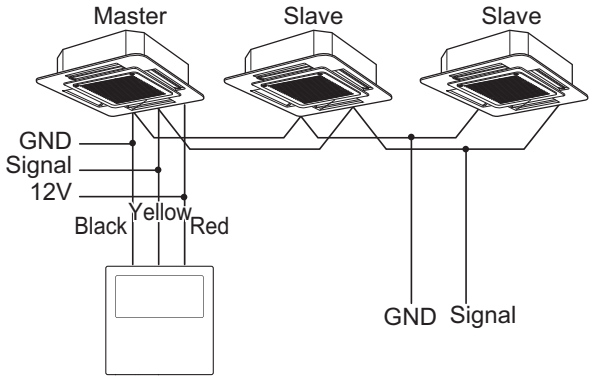
1:1 Control

DC 12 V	Red
Signal	Yellow
GND	Black



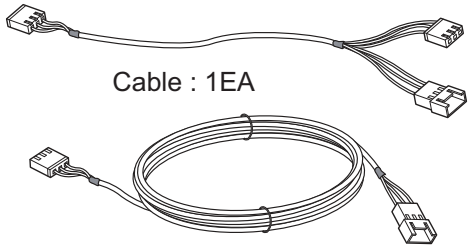
2.2 Example of installing

1:N(IDU) Group Control



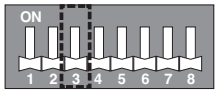
It needs the group control cable.

• Group Control cable
- Model name : PZCWRCG3
- Length : 0.25m

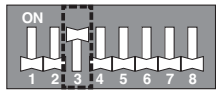


1) Max. 16 Indoor units by one remote controller.

2) Only one indoor unit to Master and others to Slave.
- For ceiling cassette and duct product group, change the setting with the indoor unit PCB switch.



No. 3 switch OFF: master (factory ship-out based)



No. 3 switch ON: slave

3) In case of using Central controller, the Central controller can control indoor units which has the address of master indoor unit. (Slave indoor unit can not be individually controlled by Central controller)

4) Dry contact can be allowed only in master indoor unit.

5) It is possible to use wireless remote controller at the same time.

6) In case that the group's indoor unit has an abnormal problem, an error code will be displayed on the wired remote controller.

2.2 Example of installing

7) Except basic function(On/Off, Operation mode, Set temp., Fan speed) and reservation function, some of other functions may not be possible.

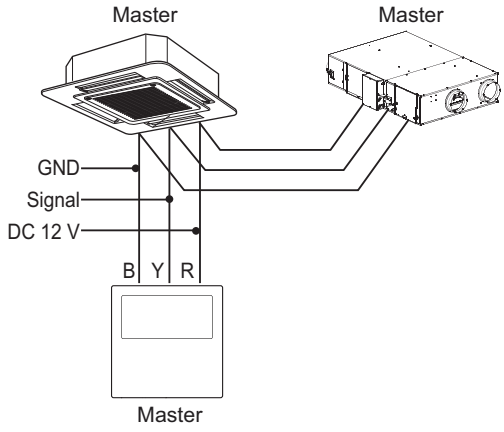
< Restriction function when using group control >

Function		Setting for extended fuctions on group control (Installer setting code : 19)	
		Not use (19:00)	Use (19:01)
On/Off	On / Off	●	●
Mode	Cool / Heating / Fan / Dry	●	●
	Auto	Operation based on Master indoor unit	Operation based on Master indoor unit
	Power cooling / Heating	X	X
Fan Speed	Slow	X	X
	Low / Med / High	●	●
	Power	X	X
	Auto	Operation based on Master indoor unit [1)]	Operation based on Master indoor unit [1)]
Wind direction	Up Down / Left Right / Comfort	X	Operation based on Master indoor unit
Sub function	Air purification (Plasma Purification)	X	X
	Air purifying (Single Operation)	Operation based on Mater indoor unit [1)]	Operation based on Mater indoor unit [1)]
	Energy saving cooling	X	Operation based on Master indoor unit
	Auto dry / Robot Cleaning	X	X
	Ventilation device kit	X	X
	Heater	X	Operation based on Master indoor unit [1)]
	Humidification	X	X
	Fan Auto	X	Operation based on Master indoor unit
	Comfort cooling	X	X
Function / User setting	Vane Angle	X	Only can be set on Vane ALL
	Elevation grill control	X	X
	Auto dry / Robot Cleaning	X	X
	Filter alarm	●	●
	Time setting	●	●
	changeover temperature setting	●	●
	Dead band setting	●	●
	Override timer setting	●	●
	Setback setpoint setting	●	●

1) It is only applied for PREMTB100, PREMTBB10, PREMTA201.

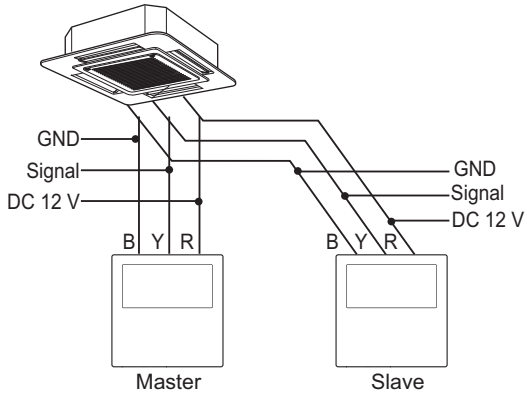
2.2 Example of installing

Interlocked operation : 1 IDU and 1 Ventilation



1) It is possible to connect IDU and ventilation with one wired remote controller. Set IDU and Ventilation unit to Master
2) It is possible to use wireless remote controller at the same time.
3) It is possible to connect with Dry Contact and Central controller at the same time.
4) In case of an abnormal problem, an error code displayed for each product on the wired remote controller.
5) There isn't limits of indoor unit and ventilation function.

2:1(IDU) Control



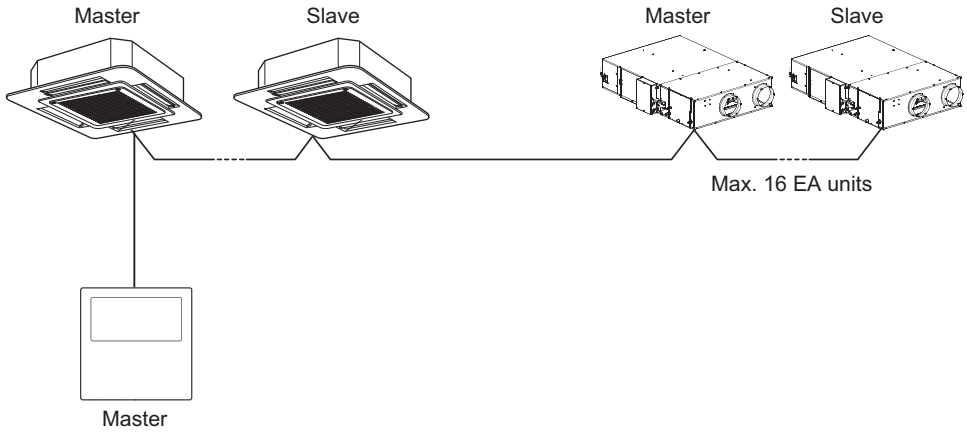
1) It is possible to connect two wired remote controllers with one indoor unit.
   - Set one indoor unit to Master and other one to Slave.
2) It is possible to use wireless remote controller at the same time.
3) It is possible to connect with Dry Contact and Central controller at the same time.
4) In case that the indoor unit has an abnormal problem an error code will be displayed on the wired remote controller.
5) There isn't limits of indoor unit function.
6) The remote controller set as the slave cannot be set up the installer setting.
7) The indoor temperature displayed on the slave remote controller is the temperature detected according to the 2TH/Slave setting of the master remote controller.
8) The indoor unit operates based on the detected temperature according to the 2TH/Slave setting of the master remote controller.

NOTE

In case of using Premium or Deluxe or Standard wired remote controller (PREMTB100/PRMTBB10), some models of Indoor unit cannot support 2 Remote control because of insufficient power

2.2 Example of installing

Group control and Interlocked operation : N IDU and N Ventilation



1) It is possible to connect IDUs and ventilations with one wired remote controller.
   Set one indoor unit to master and others to slave.
   Set one ventilation to master and others to slave.
2) It is possible to use wireless remote controller at the same time.
3) It is possible to connect with Dry Contact and Central controller at the same time.
4) In case of an abnormal problem, an error code displayed for each product on the wired remote controller.
5) Some functions are limited when multiple ventilation products are connected.
   - Check filter remain time, Refrigerant leakage detection sensor (installer setting), Check auto-addressing result, Comfort cooling step setting
6) Please refer restricted functions for IDU group control in below category.
   - 2.2 Example of installing → 1:N(IDU) Group Control

2.3 Product Description

2.3.1 Premium

■ PREMTA000/PREMTA000A/PREMTA000B

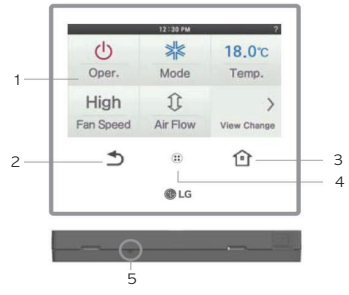
1. Feature

- 5 inch full color TFT LCD
- Touch screen
- Multi-Language Support
- Temp./Humid sensing
- Schedule / Timer
- Group control
- Indoor unit/Ventilator interlocking

2. Specification

Power Supply	DC 12 V (From Indoor Unit)
Rated Current (Max.)	0.152 A
Compatible product	Air conditioner, Ventilator, DX ventilator
Language	PREMTA000 : English, French, Spanish, Portuguese PREMTA000A : English, Italian, Russian, Chinese PREMTA000B : English, German, Polish, Czech

3. Description

Appearance	Descriptions		
	No.	Name	Function
	1	Operation display window	Displays operation and setting status
		Touch screen	Control of product operation and setting status
	2	Back button	Move to the previous setting screen
	3	Home button	Move to the default screen
	4	Wireless reception port	Receives wireless remote controller signal
	5	Reset button	Reset wired remote controller

2.3 Product Description

2.3.2 Deluxe

■ PREMTA201

1. Feature

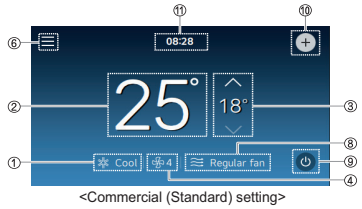
- Embedded Wi-Fi (ThinQ)
- 4.3 inch color display, Full Touch
- Welcome function
- 2 set function
- Group control (Max 16 indoor unit)
- Temp / Humid sensing
- Two types of schedules available

2. Specification

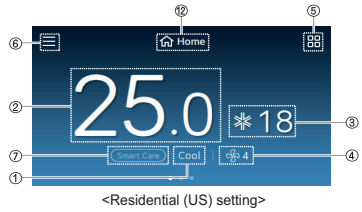
Power Supply	DC 12 V (From Indoor Unit)
Rated Current (Max.)	0.25A
Compatible product	Air conditioner, Ventilator, DX ventilator
Language	English, French, Spanish, Portuguese, Italian, Russian, Chinese, German, Polish, Czech, Korean

3. Description

Appearance



<Commercial (Standard) setting>



<Residential (US) setting>

Descriptions

No.	Name	No.	Name
1	Operation Mode	7	Smart Care
2	Room temperature	8	Wind Direction
3	Set temperature	9	Start/Stop button
4	Fan speed	10	Floating button
5	Additional Functions	11	Current time
6	Menu	12	Indoor unit name

2.3 Product Description

2.3.3 Standard

■ PREMTB100 / PREMTBB10

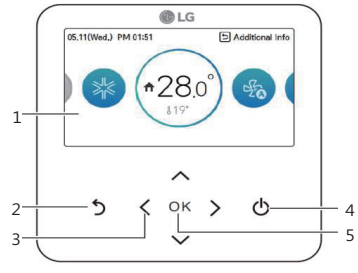
1. Feature

- 4.3 inch full color TFT LCD
- Touch button
- Multi-Language Support
- Temp./Humid sensing
- Schedule / Timer6
- Group control
- Indoor unit/Ventilator interlocking

2. Specification

Power Supply	DC 12 V (From Indoor Unit)
Rated Current (Max.)	0.201 A
Compatible product	Air conditioner, Ventilator, DX ventilator
Language	English, French, Spanish, Portuguese, Italian, Russian, Chinese, German, Polish, Czech, Korean
Digital output(on/off)	1 EA (Max. 30 mA)

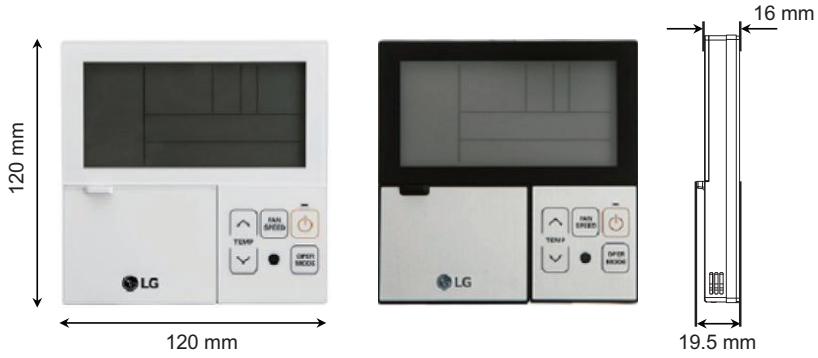
3. Description

Appearance	Descriptions		
	No.	Name	Function
	1	Operation display window	Displays operation and setting status
	2	Back button	When you move to the previous stage from the menu's setting stage
	3	Up/down/left/ right button	When you change the menu's setting value
	4	OK button	When you save the menu's setting value
	5	On/Off button	When you turn ON/OFF the air conditioner

2.3 Product Description

■ PREMTB001/PREMTBB01

1. Feature



- 4.3 inch mono display
- Button
- Temp. sensing
- Schedule / Timer
- Group control
- Indoor unit/Ventilator interlocking

2. Specification

Power Supply	DC 12 V (From Indoor Unit)
Rated Current (Max.)	0.085 A
Compatible product	Air conditioner, Ventilator, DX ventilator
Language	English

3. Description

Appearance	Descriptions		
	No.	Name	Function
	1	Operation display window	Displays operation and setting status
	2	Sub function Button	To select the additional operations function
	3	Airflow Button	To select the airflows
	4	Function Setting Button	To select the additional operations function
	5	Ventilation Button	For interlocking operations of air-conditioner and ventilator
	6	Reservation Button	To program the schedule
	7	Up/Down/Left/Right Button	To change the settings in the menu
	8	Room temperature	To check the indoor temperature
	9	ESC Button	To exit from the menu
	10	Set/Cancel Button	To save the settings in the menu
	11	Temperature Control Button	To change the desired temperature
	12	On/Off Button	To turn on/off with a remote controller
	13	Operation Mode Selection Button	To select the operating mode
	14	Wireless Remote Controller Receiver	Wireless Remote Controller Receiver
	15	Fan Speed Button	To select the fan speed

2.3.4 Simple

■ PQRCVCL0QW/PQRCVCL0Q/PQRCHCA0QW/PQRCHCA0Q (For Hotel)

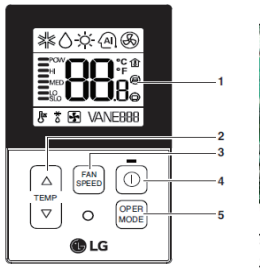
1. Feature

- 2.6 inch mono display
- Button
- Temp. sensing
- No mode Change
  (PQRCHCA0QW/PQRCHCA0Q)
- Group control

2. Specification

Power Supply	DC 12 V (From Indoor Unit)
Rated Current (Max.)	0.085 A
Compatible product	Air conditioner
Language	English

3. Description

Appearance	Descriptions		
	No.	Name	Function
	1	Operation display window	Displays operation and setting status
	2	Temperature Control Button	To change the desired temperature
	3	Fan Speed Button	To select the fan speed
	4	On/Off Button	To turn on/off with a remote controller
	5	Operation Mode Selection Button	To select the operating mode

3. Wireless remote controller

3.1. Product Feature

3.1.1 Feature List

3.1.2 Function Description

3.1.3 Compatibility List

3.2 Product Description

3.2.1 Basic

3.1 Product Feature

3.1.1 Feature list

Controller Name		Wireless Remote Controller
Product Image		
Model Name		PQWRH(C)Q0FDB, PWLSSB21H(C)
Basic	On / Off	O
	Fan Speed Control	O
	Temperature Setting	O
	Mode Change	O
	Auto Swing	O
	Vane Control (Louver Angle)	O
	E.S.P (External Static Pressure)	X
	Electric Failure Compensation	X
	Indoor Temperature Display	O
	ALL Button Lock (Child Lock)	X
Advanced	Schedule / Timer	O
	Additional Mode Setting*	X
	Time Display	O
	Humid. Display	X
	Advanced Lock (mode, set point, set point range, on/off Lock)	X
	Filter Sign	X
	EnergyManagement **	X
	Dual Set point	X
	Human detection	X
	Temp, Humidity compensation	X
	Wi-Fi pairing	O
	Air purifying	O
ETC	Operation StatusLED	X
	Wireless Remote Controller Receiver	X
	Display	2 inch mono Display
	Size (W x H x D, mm)	51 x 153 x 26
	Black Light Control for Screen Saver	X

- O : Applied X : Not applied
- * It might not be indicated or operated at the partial product
- ** Centralized control (PACS5A000 / PACS4B000 / PACP5A000 / PACP4B000 / PQNFB17C0 / PLNWKB000) and PDI (PQNUD1S40 / PPWRDB000) should be installed for this function
- *** For ceiling type duct
- Indoor unit should have functions requested by the controller
- If you need more detail, please refer to the manual of product. (http://partner.lge.com: Home> Doc.Library> Manual)

3.1.2 Function Description

Category	Level1	Level2	Level3	DESCRIPTION
Basic function	Temp setting	-	-	
	Operation mode	Cooling	-	Cool the room to the desired temperature. - Setting range : 18~30 °C
		Heating	-	Heats the room the desired temperature. - Setting range : 16~30 °C
		Dry	-	It removes the moisture with cooling.
		Fan	-	Fan only operation, no cooling or heating.
		AI or Auto changeover	AI for C/O Auto Changeover for H/P	The product automatically provides the appropriate fan speed based on the temperature of the room
		Power cooling	-	It provides strong cooling in short time.
		Power heating	-	It increases indoor temperature quickly.
	Display indoor temperature	-	-	It display indoor temperature.
	Fan Speed	Slow	-	It is a function to set the Fan speed of the indoor unit. * For chaos, fan speed is displayed repeatedly [Low → Medium → High → Low…].
		Low	-	-
		Medium	-	-
		High	-	-
		Chaos	-	-
	Wind direction	Up/Down swing	-	The vane moves up and down repeatedly.
		Left/Right swing	-	The vane moves left and right repeatedly.
		Up/Down airflow direction	-	You can set the upper and lower angle of the vane to the desired position.
		Left/Right airflow direction	-	You can set the left and right angle of the vane to the desired position.
		Direct wind	-	It operate at the maximum angle. It is suitable for high ceiling.
		Indirect wind	-	It operate at the minimum angle. Provides air flow that blows away from user for comfort.
		Smart mode	-	Smartly keeps set temperature by adjusting the wind direction automatically.
		Refresh mode	-	Adjust the temperature of the direct and indirect wind to create a comfortable and efficiency working environment.
Sub function / Function setting	Air Purify	-	-	It makes the indoor air clean and pleasant. Air purify alone operation can be used only for dust sensor applied products.
	Dust lamp always display (Smart indicator)	-	-	It is a function to set to always display the status of fine dust on the display of products equipped with a dust sensor.
	Setting for brightness of IDU display	-	-	It is a function to control the brightness of the LED of the product's display.
	Auto drying (Auto clean)	-	-	When the product is off after cooling operation, it is the function to dry the inside of the indoor unit to remove mold and moisture.
	Energy saving cooling	-	-	This is a function that improves the user's comfort and power saving performance by raising the desired temperature after an appropriate time elapses after the indoor temperature reaches the desired temperature during cooling operation.
	Robot cleaning (Smart clean)	-	-	Robot cleaning function is the function to automatically perform the filter cleaning with the cleaner in the product when the air conditioner is used for certain period of time.
	Electric Heater	-	-	It is the function to reinforce the heating capability by turning on the electric heater during the heating operation.
	Comfort cooling	-	-	The comfort cooling is the function to automatically control the cooling strength to maintain the pleasant feeling without turning off the product after the indoor temperature reached the desired temperature.
	Setting /checking address of central controller	-	-	When multiple indoor units are controlled by the central controller, you can set and confirm a number to distinguish each indoor unit.
	Setting the change temperature for auto changeover	-	-	This function sets the range of the cooling / heating switching temperature of Auto Changeover mode.
	Celsius/Fahrenheit Switching	-	-	This function sets the temperature unit displayed on the remote controller.

3.1 Product Feature

Category	Level1	Level2	Level3	DESCRIPTION
Timer	Setting current time	-	-	You can set current time.
	Daily timer	On timer	-	You can turn on the air conditioner at certain times of the day. - It is executed only once and is deactivated.
		Off timer	-	You can turn off air conditioning at certain times of the day. - It is executed only once and is deactivated.
	Sleep timer	-	-	After 1 to 7 hours of operation, the product can be turned off.
Wi-Fi	Wi-Fi pairing	-	-	Enables the AP mode function of the Wi-Fi module connected to the indoor unit.
Installer setting	Mode override	code : 0	Set to master (00) Set to slave (01)	The operation master / slave selection function is to avoid other mode operations. It prevent the selection of opposite mode of the master indoor unit by the indoor units set as slaves.
	Ceiling height	code : 1	Standard (11) Low (12) High (13) Very high (14)	It is a function to change the indoor fan air volume according to the ceiling height.
	Group control	code : 2	Set to master (20) Set to slave (21) Check master/slave (22)	It is the function to set the fan speed value corresponding to each fan speed for easy installation
	Auxiliary heater	code : 2	Set to auxiliary heater (23) Cancel auxiliary heater (24) Check auxiliary heater installation (25)	-

3.1 Product Feature

3.1.3 Compatibility List _ Function

Function list				Wireless remote controller			
Category	Level1	Level2	Level3	PWLSSB21H	PWLSSB21C	PQWRHQ0FDB	PQWRCQ0FDB
Basic function	Temp setting		-	●	●	●	●
	Operation mode	Cooling	-	●	●	●	●
		Heating	-	●	X	●	X
		Dry	-	●	●	●	●
		Fan	-	●	●	●	●
		AI or Auto changeover	AI for C/O Auto Changeover for H/P	●	●	●	●
		Power cooling	-	●	●	●	●
		Power heating	-	●	X	●	X
	Display indoor temperature	-	-	●	●	●	●
	Fan Speed	Slow	-	●	●	●	●
		Low	-	●	●	●	●
		Medium	-	●	●	●	●
		High	-	●	●	●	●
		Chaos	-	●	●	●	●
	Wind direction	Up/Down swing	-	●	●	●	●
		Left/Right swing	-	●	●	●	●
		Up/Down airflow direction	-	●	●	●	●
		Left/Right airflow direction	-	●	●	●	●
		Direct wind	-	●	●	●	●
		Indirect wind	-	●	●	●	●
		Smart mode	-	●	●	●	●
		Refresh mode	-	●	●	●	●
Sub function / Function setting	Air Purify	-	-	●	●	●	●
	Dust lamp always display (Smart indicator)	-	-	●	●	●	●
	Setting for brightness of IDU display	-	-	●	●	●	●
	Auto drying (Auto clean)	-	-	●	●	●	●
	Energy saving cooling	-	-	●	●	●	●
	Robot cleaning (Smart clean)	-	-	●	●	●	●
	Electric Heater	-	-	●	X	●	X
	Comfort cooling	-	-	●	●	●	●
	Setting /checking address of central controller	-	-	●	●	●	●
	Setting the change temperature for auto changeover	-	-	●	X	●	X
	Celsius/Fahrenheit Switching	-	-	●	●	●	●
Timer	Setting current time		-	●	●	●	●
	Daily timer	On timer	-	●	●	●	●
		Off timer	-	●	●	●	●
	Sleep timer	-	-	●	●	●	●

3.1 Product Feature

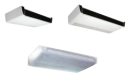
Function list				Wireless remote controller			
Category	Level1	Level2	Level3	PWLSSB21H	PWLSSB21C	PQWRHQ0FDB	PQWRCQ0FDB
Wi-Fi	Wi-Fi pairing			●	●	●	●
Installer setting	Mode override	code : 0	Set to master (00) Set to slave (01)	●	●	●	●
	Ceiling height	code : 1	Standard (11) Low (12) High (13) Very high (14)	●	●	●	●
	Group control	code : 2	Set to master (20) Set to slave (21) Check master/slave (22)	●	●	●	●
	Auxiliary heater	code : 2	Set to auxiliary heater (23) Cancel auxiliary heater (24) Check auxiliary heater installation (25)	●	●	●	●

❊ Depending on the model, some functions and the designs (ex. Icons and buttons, etc.) may be different.

3.1 Product Feature

3.1.3 Compatibility list with Multi V indoor units

◎ : Compatibility is available but more detailed functions refer to MULTI V 4series IDU features.
● : Compatibility is available. X : Compatibility is unavailable. ▲ : Need to set-up the IR Receiver product

			Better
			PQWRH(C)Q0FDB PWLSSB21H(C)
			
Cassette	4way 	before Gen4	●
		from Gen4	●
	2way/1way 	before Gen4	●
		from Gen4	●
Duct	high sensible 	Gen4	▲
	High Mid 	before Gen4	▲
		from Gen4	▲
	Low 	before Gen4	▲
		from Gen4	▲
	Built-in 	before Gen4	▲
		from Gen4	▲
FAU		Gen2	▲
Ceiling uspended		before Gen4	●
		from Gen4	●
Console		before Gen4	●
		from Gen4	●
floor Standing		before Gen4	●
		from Gen4	●
		before Gen4	●
		from Gen4	●
Wall Mounted		before Gen4	●
		from Gen4	●
		Gen2	●
		Gen4	●
		before Gen4	●
		from Gen4	●
Hydro Kit			X
Eco V			X
Eco V DX			X

3.1 Product Feature

3.1.3 Compatibility list with Multi and Single indoor units

● : Compatibility is available. X : Compatibility is unavailable ▲ : Need to set-up the IR Receiver product.

			Better
			PQWRH(C)Q0FDB PWLSSB21H(C)
			
Single Split (H-Inverter)		Cassette	●
		Duct	▲
		Ceiling Suspended	●
Single Split (Standard Inverter)		Cassette	●
		Duct High	▲
		Duct Mid	▲
		Duct Low	▲
		Ceiling Suspended	●
		Console	●
		Wall Mounted	●
		Floor Standing	●
Multi		4way	●
		1way	●
		Duct Mid	▲
		Duct Low	▲
		Ceiling Suspended	●
		Console	●
		Wall Mounted	●
			●
Therma V		Split Mid Temp	X
		Split High Temp	X
		mono block	X

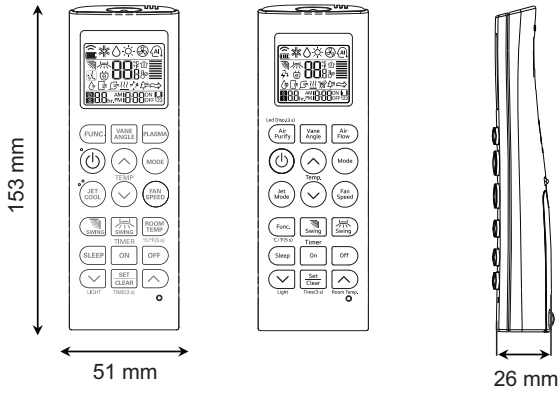
3.2 Product Description

3.2.1 Basic

■ Model name : PQWRHQ0FDB / PQWRCQ0FDB / PWLSSB21H / PWLSSB21C

1. Feature

PQWRH(C)Q0FDB PWLSSB21H(C)

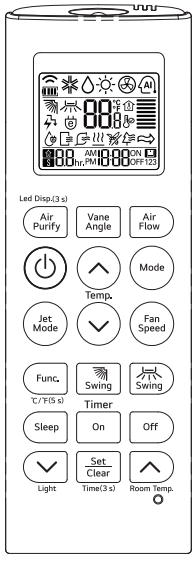


- 2 inch mono display
- Temperature sensing

2. Specification

Power Supply	1.5 V (AAA Batteries 2EA)
Compatible product	Air conditioner
Language	English

3. Description

Appearance	Part	Descriptions	Part	Descriptions
	PLASMA	Used to start or stop the plasma-purification function. (This button can be used only for PQWRH(C)Q0FDB model)	Func.	Used to set or clear additional function. Celsius/Fahrenheit Switching (If it press for 5 s)
	Air Purify	Used to start or stop the air purification function. Smart Indicator(Air quality) always on setting (If it press for 3 s)	Swing	Used to stop or start louver movement and set the desired up/down airflow direction.
	Vane Angle	Used to set each vane angle.	Swing	Used to set the desired left/right(horizontal) airflow direction.
	Air Flow	Used to set airflow.	Sleep	Used to set the time of sleeping operation.
		Used to turn on/off the unit.	On	Used to set the time of starting operation.
	Temp.	Used to select the room temperature.	Off	Used to set the time of stopping operation.
	Mode	Used to select the operation mode.		Used to set the timer. (If it is timer mode) Used to adjust the brightness. (If it is not timer mode) Used to check the room temperature. (If it is not timer mode)
	Jet Mode / JET COOL	Speed cooling(heating) operates super high fan speed.	Set Clear	Used to set/clear the timer. Used to set the current time (If it press for 3 s)
	Fan Speed	Used to set fan speed.	○	Used to reset the remote controller.

※ Depending on the model, some functions and the designs (ex. Icons and buttons, etc.) may be different.

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The air conditioners manufactured by LG have received ISO9001 certificate for quality assurance and ISO14001 certificate for environmental management system.
The specifications, designs, and information in this brochure are subject to change without notice.