

Control Solutions & Accessories

MULTI V™

Total Air Solution Provider



LG ELECTRONICS VIETNAM

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www.lg.com/vn/business | www.lghvac.vn | www.partner.lge.com

























*For continual product development, LG reserves the right to change specifications or designs without notice

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LG HVAC CONTROL LINE-UP

INDIVIDUAL CONTROL		CENTRALIZED CONTROL			
Wired Remote Controller		Wireless Remote Controller	Display	Platform	Gateway
Standard	Simple				
Standard III (White)		NEW PWLSSB21H (H/P) PWLSSB21C (C/O)	AC Ez	ACP 5	ACP LonWorks
PREMTB100	PQRCVCL0QW		PQCSZ250S0 (Indoor Unit -32)	PACPSA000 (Indoor Unit -256) BACnet IP / Modbus TCP	PLNWKB000 (Indoor Unit -64)
		Wi-Fi Controller			
Standard III (Black)		LG Wi-Fi Modem	AC Ez Touch	AC Manager 5	Modbus RTU Gateway
PREMTBB10	PQRCVCL0Q	For Indoor Unit PWFMD200	PACEZA000 (Indoor Unit -64)	PACMSA000 (Indoor Unit -8,192)	PMBUSB00A
Standard II (White)			AC Smart 5		PI-485
PREMTB001	PQRCHCA0QW (Simple for Hotel)		PACSSA000 (Indoor Unit -128) BACnet IP / Modbus TCP		For Indoor Unit (ERV) PHNFP14A0
Standard II (Black)					
PREMTBB01	PQRCHCA0Q (Simple for Hotel)				
Premium					
PREMTA000 PREMTA000A PREMTA000B					

CENTRALIZED CONTROL	INTEGRATION DEVICE			
Facility Integrator	Indoor Unit		Outdoor Unit	AHU Kit
	Dry Contact	Control Accessory		
PDI (Power Distribution Indicator)	 Simple Dry Contact PDRYCB000	 PZCWRCG3	 For MULTI V 5 PVD5MN000	 Return / Room Air control PAHCMR000
Premium (8 port) PQNUD1S40 Standard (2 port) PPWRDB000	 Dry Contact for Thermostat PDRYCB300	 PQRSTA0	 For MULTI V WATER IV PWFCKN000	 Discharge / Supply Air control PAHCM5000
ACS IO Module (Input / Output Module)	 2 Points Dry Contact (For Setback) PDRYCB400	 ZRTBS01	 For MULTI V IV, 5 PRVC2	 Main module NEW PAHCNM000
Chiller Option Kit	 For Modbus PDRYCB500	 4 Zones by thermostat ABZCA	 PRDSBM	 Communication module NEW PAHCMC000
ACU IO Module			 NEW PAHCMW000	 PRLK048A0 (3 - 10 HP) PRLK096A0 (12 - 20 HP) PRLK396A0 (20 - 40 HP) PRLK594A0 (40 - 60 HP)
UIO	 PEXPMB300			 TXV Kit (Thermal Expansion Valve) PATX13A0E (8 - 16 HP) PATX20A0E (18 - 26 HP) PATX25A0E (28 - 36 HP) PATX35A0E (38 - 46 HP) PATX50A0E (48 - 56 HP)
UO	 PEXPMB200			
UI	 PEXPMB100			

LG CONTROL SOLUTIONS








MULTI V 5 offers a diverse range of effective control solutions that satisfy specific needs of each building and its user scene. These control systems are equipped with user-friendly interface, flexible interlocking environment, energy management and smart individual controller for optimized controlling conditions and smart building management.



INDIVIDUAL CONTROL



FEATURE FUNCTIONS

Controller Name	Wired Remote Controller					Wireless Remote Controller	Wi-Fi Controller
	Premium	Standard III	Standard II	Simple	Simple(Hotel)		
Model Name							
	PREMTA000 PREMTA000A PREMTA000B	PREMTB100 PREMTBB10	PREMTB001 PREMTBB01	PQRCVCL0Q PQRCVCL0QW	PQRCHCA0Q PQRCHCA0QW	NEW PWLSSB21H (H/P) PWLSSB21C (C/O)	PWFMD200
On / Off	○	○	○	○	○	○	○
Fan Speed Control	○	○	○	○	○	○	○
Temperature Setting	○	○	○	○	○	○	○
Mode Change	○	○	○	○	-	○	○
Auto Swing	○	○	○	○	○	○	
Vane Control (Louver Angle)	○	○	○	○	○	○	○
E.S.P (External Static Pressure)	○	○	○	○	○	-	-
Electric Failure Compensation	○	○	○	○	○	-	○
Indoor Temperature Display	○	○	○	○	○	○	-
ALL Button Lock (Child Lock)	○	○	○	○	○	-	-
Schedule / Timer	Weekly - Yearly	Weekly - Yearly	Weekly	-	-	Sleep / On / Off	Weekly
Additional Mode Setting ¹⁾	○	○	○	-	-	-	-
Time Display	○	○	○	-	-	○	-
Humid. Display	○	○	-	-	-	-	-
Advanced Lock (Mode, Set point, Set point range, On / Off Lock)	Advanced Lock	Advanced Lock	-	-	-	-	-
Filter Sign	○	○	○	-	-	-	-
Energy Management ²⁾	○	○	○	-	-	-	-
Dual Set Point	○	○	-	-	-	-	-
Human Detection	-	○	-	-	-	-	-
Temp, Humidity Compensation	○	○	-	-	-	-	-
Wi-Fi AP Mode Setting	○	○	○	○	○	○	-
Air Purification Function	-	○	-	-	-	-	-
Operation Status LED	○	○	○	○	○	-	-
Wireless Remote Controller Receiver	○ ³⁾	-	○ ³⁾	○ ³⁾	○ ³⁾	-	-
Display	5 inch Color	4.3 inch Color	4.3 inch mono	2.6 inch mono	2.6 inch mono	2 inch mono	-
Size (W x H x D, mm)	137 x 121 x 16.5	120 x 120 x 16	120 x 121 x 16	70 x 121 x 16	70 x 121 x 16	51 x 153 x 26	-
Black Light Control for Screen Saver	○	○	-	-	-	-	-

※ ○ : Applied, - : Not Applied

1) It might not be indicated or operated at the partial product.

2) Centralized control (PACEZA000 / PACS5A000 / PACP5A000 / PLNWKB000) and PDI (PQNUD1540 / PPWRDB000) should be installed for this function.

3) For ceiling type duct

Note : 1. Indoor unit should have functions requested by the controller.

2. If you need more detail, please refer to the manual of product. (<http://partner.lge.com> : Home > Doc.Library > Manual)

STANDARD III WIRED REMOTE CONTROLLER

4.3 inch colored screen with modern design



PREMTB100 (White)



PREMTBB10 (Black)

Features & Benefits

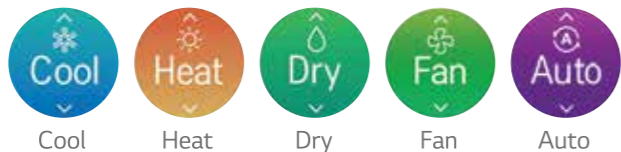
- The optimized controller for MULTI V5
 - Humidity sensor embedded
 - Comfort cooling setting
 - Smart Load Control setting
 - Outdoor unit low noise setting
 - Defrost mode setting
- New modern design & easy interface
 - Seamless design / Touch button
 - 4.3 inch color LCD / Intuitive GUI
- Energy saving functions
 - Instantaneous power monitor
 - Energy consumption check (Power consumption, operation time)
 - Temp. Setback timer, time limit control
 - Target setting (ODU capacity, Instantaneous power)
- Group control
 - Up to 16 Indoor units can be controlled with one remote control
- External device On / Off (1point)
 - Customized interlocking control with indoor unit is possible without dry contact
- 2 set points control
 - Increase convenience and comfort
 - Auto changeover, Setback (Home leave)
- Air Purification
 - Air Quality Monitoring
 - Air Purification function Control

Model Name	PREMTB100 / PREMTBB10
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting ¹⁾	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification / Comfort Cooling
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure) ²⁾	○
Reservation	Simple / Sleep / On & Off timer / Weekly / Yearly / Holiday
Time Display	○
Electric Failure Compensation	○
Lock	All / On & Off / Mode / Set temperature range
Filter Sign	○ (Remain time + Alarm)
Energy Management	Check Energy Usage ³⁾ / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data
Operation Status LED	○
Indoor Temperature Display	○
Indoor Humidity Display	○
Human Detection	○
Display	4.3 inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	120 x 120 x 16
Black light for Screen saver	○
Home Leave	2 set points control

※ ○ : Applied, - : Not Applied
 1) It might not be indicated or operated at the partial product.
 2) This function is available for duct type.
 3) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.
 Note: 1. Indoor unit needs to have functions requested by the controller.
 2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly.



Touch Button



Comfort Level



Energy Contents



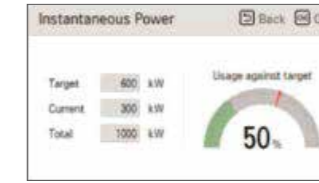
Error History

Energy Savings

Energy Management

- Energy Monitoring & Alarm
 Real-time and day / week / month / year energy usage monitoring is possible. In addition, it can set target for energy usage and operation time, and alarm will be displayed when exceeded.

※ PDI (PQNUD1S40 / PPWRDB000) is required.



Instantaneous Power Check



Energy Usage Target Setting

Time Limit Control

- The time-limit operation controls product by amount of time. By setting the device operation time in advance, users can control for how long a device works and have it stop automatically.



2 Set Points Control

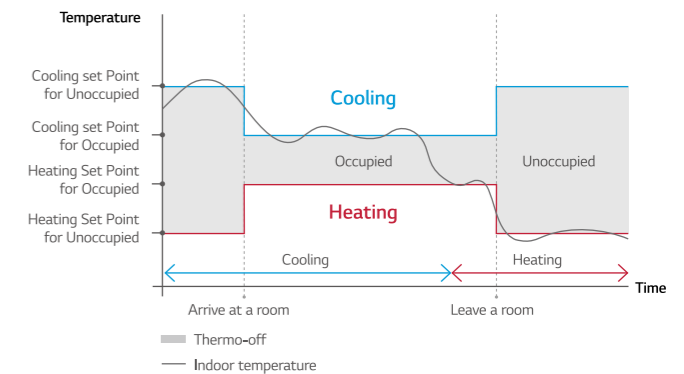
Auto Changeover for convenience

- With 2 set points control function, indoor unit manages room temperature automatically.

Setback for energy savings and comfort

- In the user's absence, the room temperature will remain between two set points rather than switching off providing quick comfort when the mode is changed to occupied.

※ This function is for Heat Recovery system or Single heat pump. Otherwise it is not guaranteed.



External Device On / Off



External Equipment Control
 User can turn the external equipment off or on through contact point output.



Customized Interlocking Control
 User can create a control scenario where the external heater switches on when temperature drops below or rises above a certain temperature.

Schedule Function



Simple Schedule Status

Standard III remote controller provides clock type daily schedule.



Exception Day settings

Possible to set up exceptional date on regular schedule.

PREMIUM WIRED REMOTE CONTROLLER

5 inch full touch screen with a premium design.



PREMTA000 ¹⁾ / PREMTA000A ²⁾ / PREMTA000B ³⁾

- 1) English / Portuguese / Spanish / French
- 2) English / Italian / Russian / Chinese
- 3) English / German / Polish / Czech

Features & Benefits

- Full Touch screen
- The optimized controller for MULTI V 5
 - Comfort cooling setting
 - Smart Load Control setting
 - Outdoor unit low noise setting
 - Defrost mode setting
- Design with user's convenience
 - Intuitive GUI
 - Main display simple mode
 - 5 inch color LCD
- Energy saving functions
 - Instantaneous power monitor
 - Energy consumption check (Power consumption, operation time)
 - Temp. Setback timer, Time limit control
 - Target setting (ODU capacity, Instantaneous power...etc)
- Group control
 - Up to 16 Indoor units can be controlled with one remote control
- 2 set points control
 - Increase convenience and comfort
 - Auto changeover, Setback (Home leave)



Full Touch Screen

Easy Energy Management

- Check the operation hour or electricity usage
- Comparison of usage compared to last year
- Set the target usage and time

Easy Scheduling

- Daily, Weekly, Yearly schedule function
- Schedule pattern setting
- Schedule copy

2 Set points Control

- Auto changeover switching the operation mode automatically
- Setback (Home Leave) Changing status by occupied / unoccupied

* This function is only for Heat Recovery system and Single heat pump.

Group Control

- Max. 16 Indoor units by one remote controller.



Model Name	PREMTA000 / PREMTA000A / PREMTA000B
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting ¹⁾	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure) ²⁾	○
Reservation	Simple / Sleep / On / Off / Weekly / Yearly / Holiday
Time Display	○
Electric Failure Compensation	○
Child Lock	○
Filter Sign	○ (Remain time + Alarm)
Energy Management	Check Energy Usage ³⁾ / Check Operation Time / Target Setting (Energy, Operation Time) / Time Limit Operation / Alarm Popup / Initialization Usage Data
Operation Status LED	○
Indoor Temperature Display	○
Wireless Remote Controller Receiver	○ ⁴⁾
Display	5 Inch TFT color LCD (480 x 272)
Size (W x H x D, mm)	137 x 121 x 16.5
Black Light for Screen Saver	○
Home Leave	2 Set Points Control

※ ○ : Applied, - : Not Applied

1) It might not be indicated or operated at the partial product.

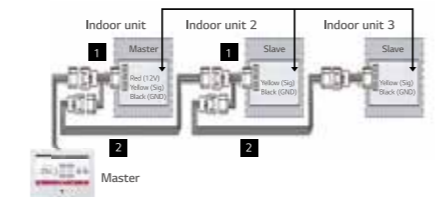
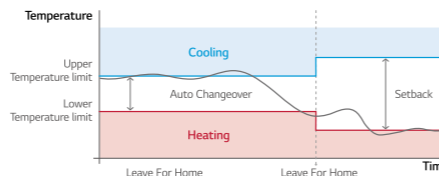
2) This function is available for duct type.

3) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.

4) For ceiling type ducted unit.

Note : 1. Indoor unit needs to have functions requested by the controller.

2. 2 set points control works normally with MULTI V Heat Recovery and Single Split Heat Pump. But in case of MULTI V Heat Pump, It may not work properly.



STANDARD II WIRED REMOTE CONTROLLER

Providing easy control of one or a group of indoor units with various functions.



PREMTB001 (White)



PREMTBB01 (Black)

Features & Benefits

- Wired remote controller that can implement various functions such as scheduling or filter alert.

Model Name	PREMTB001 / PREMTBB01
On / Off	○
Fan Speed Control	○
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Energy-Saving Cooling / Robot Cleaning / Heater / Humidification
Auto Swing	○
Vane Control (Louver direction)	○
E.S.P (External Static Pressure)	○
Reservation	Simple / Sleep / On / Off / Weekly / Holiday
Time Display	○
Electric Failure Compensation	○
Child Lock	○
Filter Sign	○ (Remain time + Alarm)
Operation Status LED	○
Indoor Temperature Display	○
Wireless Remote Controller Receiver	○ ¹⁾
Size (W x H x D, mm)	120 x 121 x 16
Blacklight	○
Power Consumption Monitoring	○ ²⁾
Check Model Information	○

※ ○ : Applied, - : Not Applied

1) For ceiling type ducted unit

2) This function requires PDI (PQNUD1S40 / PPWRDB000) to be installed.

Note : Indoor unit needs to have functions requested by the controller.

SIMPLE WIRED REMOTE CONTROLLER

A simple way to control office or hotel systems in a compact design.



PQRCVCLOQW (White) / PQRCVCLOQ (Black)



PQRCHCA0QW (White) / PQRCHCA0Q (Black)

Features & Benefits

- Small remote control with minimal functionality

Model Name	PQRCVCLOQW / PQRCVCLOQ	PQRCHCA0QW / PQRCHCA0Q
On / Off	○	○
Fan Speed Control	○	○
Temperature Setting	○	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan	-
Auto Swing	○	○
Vane Control (Louver direction)	○	○
E.S.P (External Static Pressure)	○	○
Electric Failure Compensation	○	○
Child Lock	○	○
Indoor Temperature Display	○	○
Wireless Remote Controller Receiver	○ ¹⁾	○ ¹⁾
Size (W x H x D, mm)	70 x 121 x 16	70 x 121 x 16
Blacklight	○	○

※ ○ : Applied, - : Not Applied

1) For ceiling type ducted unit

Note : Indoor unit needs to have functions requested by the controller.

WIRELESS REMOTE CONTROLLER



NEW

PWLSSB21H (H/P) / PWLSSB21C (C/O)

Features & Benefits

- Easy to use while moving
- Main functions are available

Model Name	PWLSSB21H (H/P) PWLSSB21C (C/O)
On / Off	○
Fan Speed Control	○ ¹⁾
Temperature Setting	○
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Additional Mode Setting	Plasma Purification / Energy-Saving Cooling / Robot Cleaning / Auto Dry
Auto Swing	○
Vane Control (Louver direction)	○
Reservation	Sleep / On / Off
Time Display	○
Indoor Temperature Display	○
Sleep Mode Auto	Max. 7 hours
Size (W x H x D, mm)	51.4 x 153 x 26

※ ○ : Applied, - : Not Applied

1) For some products, you can use "slow" fan speed function.

LG Wi-Fi MODEM

Control LG air conditioners by using internet devices as Android or iOS smartphones.



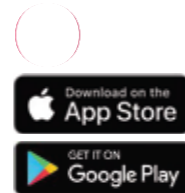
PWFMD200

Model Name	PWFMD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	MULTI V Indoor unit ³⁾
Connection Type	Indoor unit 1:1
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)
Optional Extension Cable	PWYREW000 (10m extension)

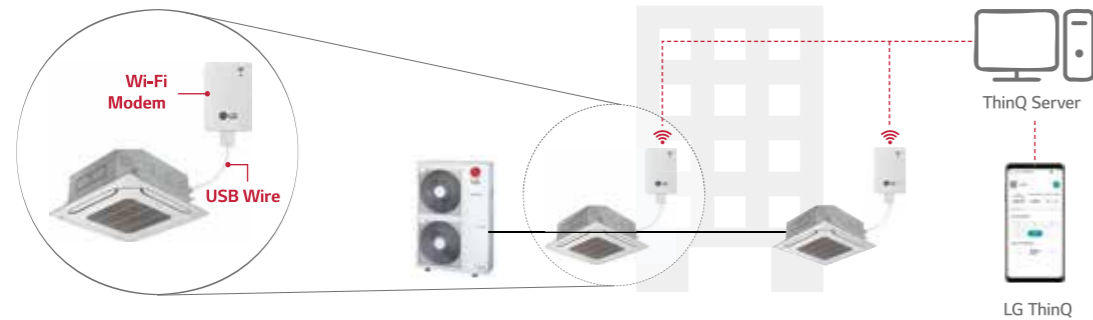
1) Vane Control may not be possible according to the type of Indoor unit.
 2) LG Centralized controller and PDI installation is required for this function.
 3) For the compatibility with Indoor unit, please contact regional LG office.
 Note : 1. Functionality may be different according to each IDU model.
 2. User interface of application shall be revised for its design and contents improvement.
 3. Application is optimized for smartphone use, so it may not be well functioning with tablet devices.

Features & Benefits

- User can enjoy anytime, anywhere access with Wi-Fi equipped device through LG's ThinQ mobile app.
- This allows the user to access the unit remotely to switch unit on or off before or after leaving the vicinity.
- LG's exclusive Home Appliances control app (LG ThinQ) is available
- Simple operation for various functions
 - On / Off
 - Operation mode
 - Current/Set temperature
 - Fan speed
 - Vane control¹⁾
 - Reservation (Sleep, Weekly On / Off)
 - Energy monitoring²⁾
 - Filter management
 - Error check

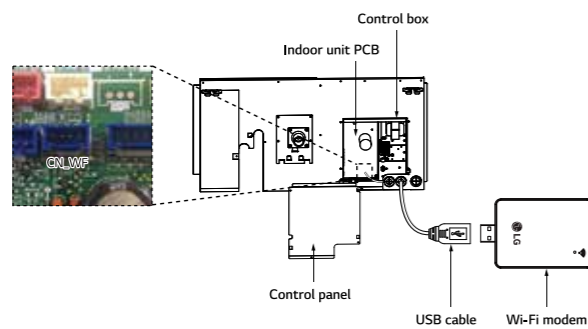


Overview



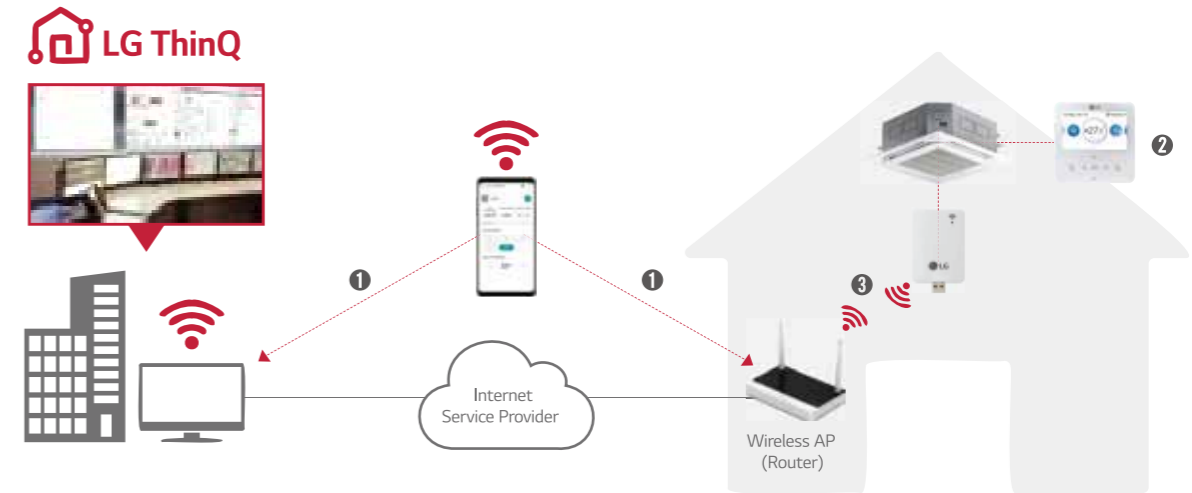
※ Search "LG ThinQ" on Google market or Appstore then download the app.
 ※ Internet service with Wi-Fi connection has to be available.

Installation Scene



※ Each indoor unit has a Wi-Fi modem installation location inside the product, and it can be installed by exposure if necessary.

LG ThinQ Connectivity



Connection (Pairing) Order

- 1 Make LG account on LG ThinQ and select the Router that will be used
- 2 Insert passwords of selected router and set AP (Access Point) by LG remote controller
- 3 Confirm the pairing between Wi-Fi Modem and Router

ThinQ Mobile App

Simple operation for various functions

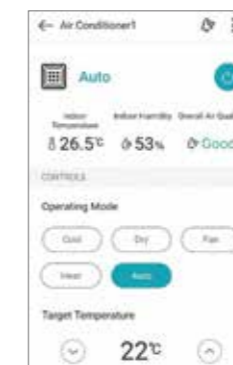
On/Off, Current Temp, Mode, Set Temp



Day



Night



Vane Control



Easy Management

Reservation



Energy Monitoring



Smart Diagnosis









Filter Management



CENTRALIZED CONTROL



CENTRALIZED CONTROLLER FEATURE LIST

Controller Name		AC Ez	AC Ez Touch	AC Smart 5 ³⁾	ACP 5 ⁵⁾	ACP Lonworks	AC Manager 5 ³⁾
Model Name							
		PQCSZ250S0	PACEZA000	PACS5A000	PACP5A000	PLNWKB000	PACM5A000
DO		-	-	2	4	2	-
DI		-	1	2	10	2	-
Product	IDUs	32	64	128	256	64	8,192
	ERV	32	64	128	256	64	8,192
	A/C + ERV	32	64	128	256	64	8,192
	AHU	-	-	16	16	16 ⁴⁾	16 x 32
	Chiller	-	-	5 Optional ²⁾	10 Optional ²⁾	-	10 x 32
Air Conditioner		○ ¹⁾	○	○	○	○	○
Ventilation (ERV / ERV DX)		○ ²⁾	○	○	○	○	○
Heating		-	○	○	○	○	○
AHU		-	-	○	○	○	○
Chiller		-	-	○ ⁴⁾	○ ⁴⁾	-	○
ACS IO		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
Add Drawing		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
Group Management		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
Auto Changer Over		-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
Set Back		-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
2 Set		-	○	○	○	○ ⁴⁾	○
Change Alarm		-	Filter	Filter	Filter	Filter	Filter
Indoor Unit Lock		-	○	○	○	○ ⁴⁾	-
Cycle		-	-	○	○	○ ⁴⁾	○
Air Purification Function		-	-	○	○	-	○
Schedule		○	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
Auto Control	Peak Control	Priority Control	-	○	○	○ ⁴⁾	○
		Outdoor Unit Capacity Control	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾
	Time limit control	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
	InterLocking	-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
Energy Navigation		-	-	○ ⁴⁾	○ ⁴⁾	-	○
Power		-	○	○	○	○ ⁴⁾	○
Gas		-	-	○	○	○ ⁴⁾	○
Run time		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
Email		-	-	-	-	○ ⁴⁾	-
PC / USB		-	-	○ ⁴⁾	PC	PC	PC
Trend Reporting		-	-	-	-	-	○
Report (Control / Error)		-	Error	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
History		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
Save to PC / USB ⁶⁾		-	-	-	-	○ ⁴⁾	-
Summer Time		-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
Outdoor Unit Oil-Return Operation		-	-	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	-
etc		-	Password	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○
PC Access		-	○	○ ⁴⁾	○ ⁴⁾	○ ⁴⁾	○

※ ○ : Applied, - : Not Applied
 1) Except for some feature (individual lock, limit, temp., etc.)
 2) Except for some feature (user mode, additional function, etc.)
 3) ACP 5 or AC Smart 5 is required.
 4) This function is possible to use in Web Only. (BMS Point is not applied.)
 5) Without additional device, ACP 5 and AC Smart 5 provide BACnet IP and Modbus TCP interface for BMS.
 6) Save to PC / USB function will be available from 4Q 2020.

AC EZ TOUCH

Smart management with 5 inch touch screen for small site.



PACEZA000

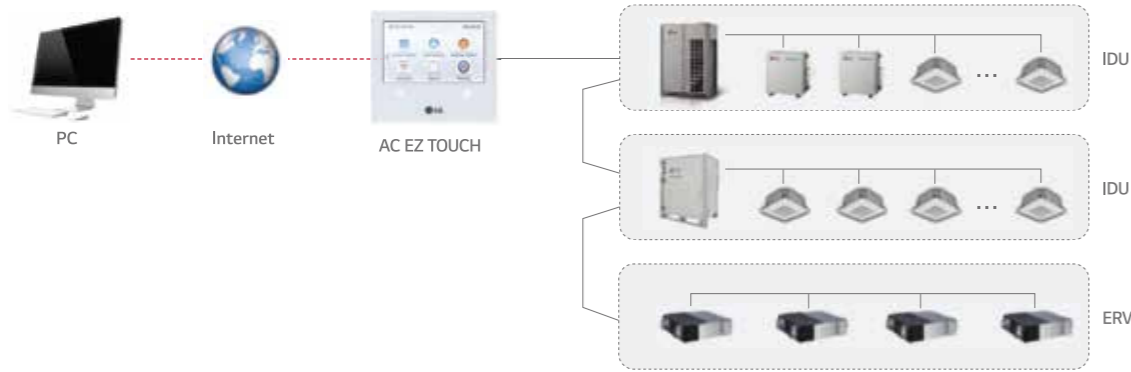
Features & Benefits

- User-friendly control with iconographic interface
- Total 200 schedule events
- Energy saving mode
- Energy monitoring (with PDI)
- 2 set point function (Upper/ Lower temperature setting)
- Temperature set points range limit
- Remote controller lock (All, Temp, Mode, Fan Speed)
- Operation history
- Clean or change filter alert
- Emergency stop

Model Name	PACEZA000
Size (W x H x D, mm)	137 x 121 x 25
Interfaceable Products	MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V
Maximum number of units	64
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Error Check	○
Slave Mode (Interlocking with higher level controller)	○
Schedule	Weekly / Monthly / Yearly / Exception day
Remote Access	By client S/W
Emergency Stop & Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation History	Error record
ODU Low Noise ¹⁾	○
Daylight Saving Time	○
External IO Port	DI 1
IPv6 Support	○

※ ○ : Applied, - : Not Applied
1) It is only available in some products.

Overview



Feature

PC Access
Users can control each space efficiently through PC access.



Energy Statistics (with PDI)
Statistics of operational status (Time, Power consumption) are provided to help make intelligent system operation decisions.

Energy		
2016. 2. 8 ~ 2016. 2. 19		
	Today	Week
Name	Usage(kWh)	Accumulated(kWh)
Group1	110	3021
Group2	150	6186
Group3	130	4267
Group4	120	7614

* Fix Public IP is mandatory.
* Router's Configuration of NAT is mandatory. Open port 80 & 9300.

Energy Mode

When using energy mode function, operation mode changes from cooling to fan or heating to off mode by force. (It is available only for operating indoor unit)



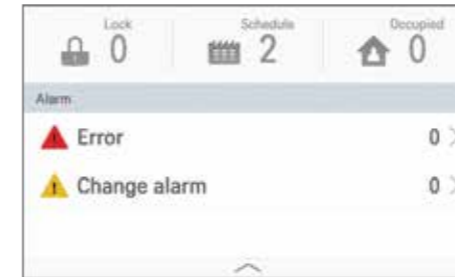
Schedule

Schedule control allows user to set the events in advance to maximize system performance. Also, by blocking unnecessary operation, it prevents a waste of energy.



Alarm Indicator

It shows errors and alarm information. Users can respond immediately according to alarm indicator therefore HVAC system is monitored consistently.



Group / Individual Control

User can control each indoor unit individually or by group by simply clicking each unit on control screen.



AC EZ

Easy to manage up to 32 indoor units, including ERV with simple interface.



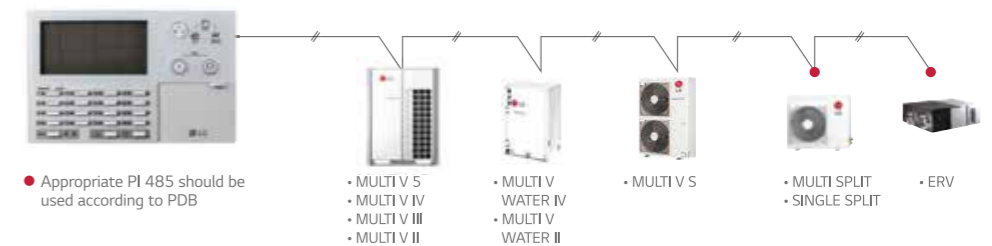
PQCSZ250S0

Model Name	PQCSZ250S0
Size (W x H x D, mm)	190 x 120 x 20
Interfaceable Products	MULTI V / ERV / ERV DX
Display	LED / LCD Display
Power	DC 12V
Maximum number of units	32
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	All
Error Check	○
Slave Mode (Interlocking with higher level controller)	○
Schedule	Weekly

※ ○ : Applied, - : Not Applied

Features & Benefits

- 32 indoor units control
- Weekly Schedule
- Individual / Group Control



AC SMART 5

10-inch touch screen with HTML5 GUI (Graphic User Interface) for easy control.



PAC55A000

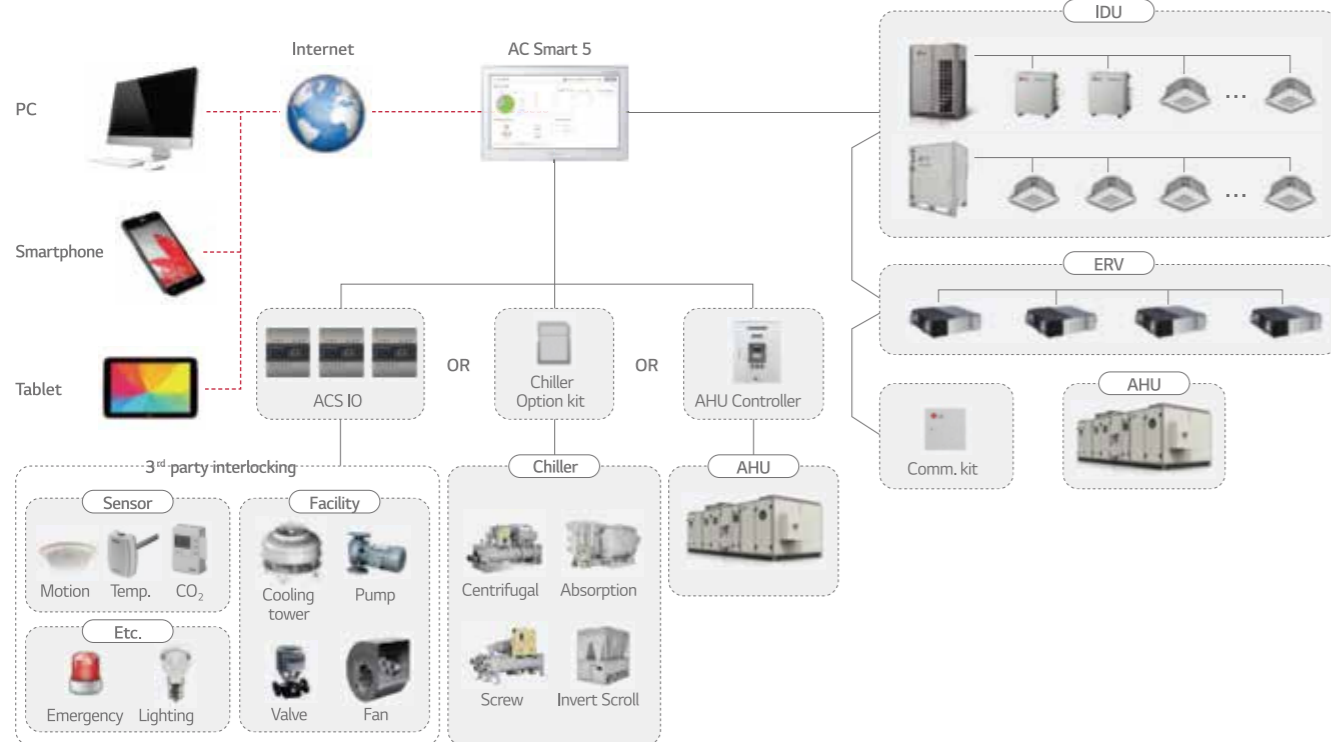
Features & Benefits

- The central controller allows control of the LG HVAC system to various platforms. (Touch screen, PC, Smartphone, Tablet)
- DI : 2 / DO : 2
- Max. 128 IDU control
- BACnet IP/Modbus TCP
- Schedule
- Map view (Visual navigation)
- Time limit control / Auto change over
- Energy monitoring
- History / Operation trend
- Interlock with 3rd party equipment (ACS IO, ACU IO Module is needed)
- Multi level grouping
- Emergency stop & alarm
- Error alarm by e-mail
- Air quality monitoring
- Air purification function control

Model Name	PAC55A000
Size (W x H x D, mm)	253.2 x 167.7 x 28.9
Interfaceable Products	MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller ¹⁾
Maximum number of units	128
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display ²⁾	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO ₂ Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	○
Slave Mode (Interlocking with higher level controller)	○
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	○
Emergency Stop & Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation Time Limit	○
Visual Navigation	○
Operation Trend	○
Interlock Control	○
Virtual Group Control	○
ODU Capacity Control	○
Energy Navigation (with PDI)	○
Daylight Saving Time	○
External IO Port	DI 2 / DO 2
BMS Integration ³⁾	BACnet IP / Modbus TCP
IPv6 Support	○

※ ○ : Applied, - : Not Applied
 1) Chiller Option Kit (PCHLLN000) is required
 2) It is only available in some products
 3) For the detail point list, please refer to the installation manual

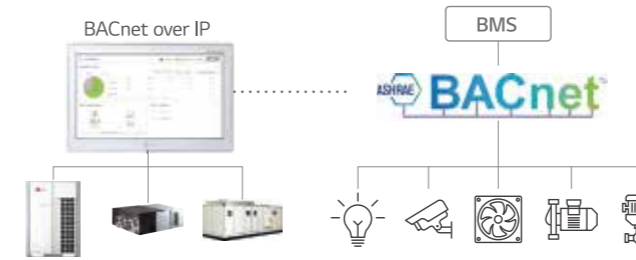
Overview



* Fix Public IP is mandatory.
 * Router's Configuration of NAT is mandatory. Open port 80 & 9300.

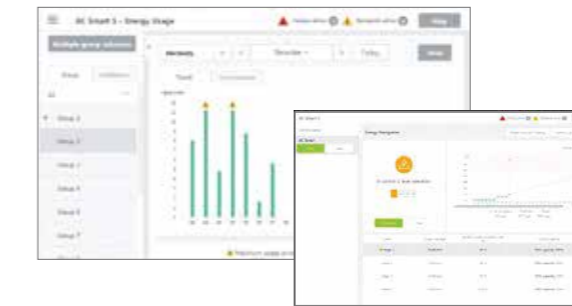
Building Management System (BMS) Integration

Without additional device, AC Smart 5 provides BACnet IP & Modbus TCP interface for BMS integration as well as its own management function.



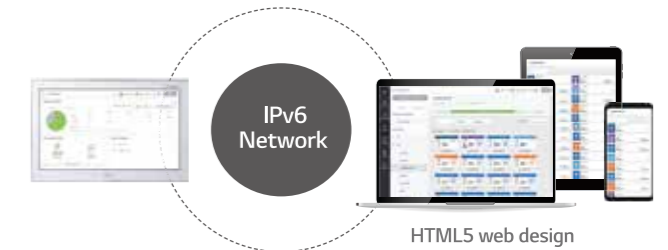
Energy Management

The energy navigation function allows the air conditioner's operational energy usage to be managed monthly, weekly and yearly. By analyzing present energy consumption and comparing with the plan, overuse of system operational costs can be prevented.



Advanced Network Accessibility

AC Smart 5 reflects the state of the art of network technology trend. IPv6 (Internet Protocol version 6), which is the most recent version of the Internet Protocol, provides accessibility to the IPv6 compatible network environment. In addition, HTML5 allows you to easily control LG HVAC system on a variety of platforms (PC, Mobile, Tablet), at any time and from any location, not just on the touch screen.



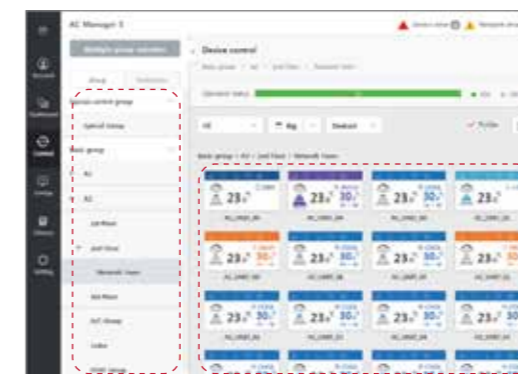
Visualized Control

Visual navigation enables controlling and monitoring the unit on floor plan view for the intuitive management.



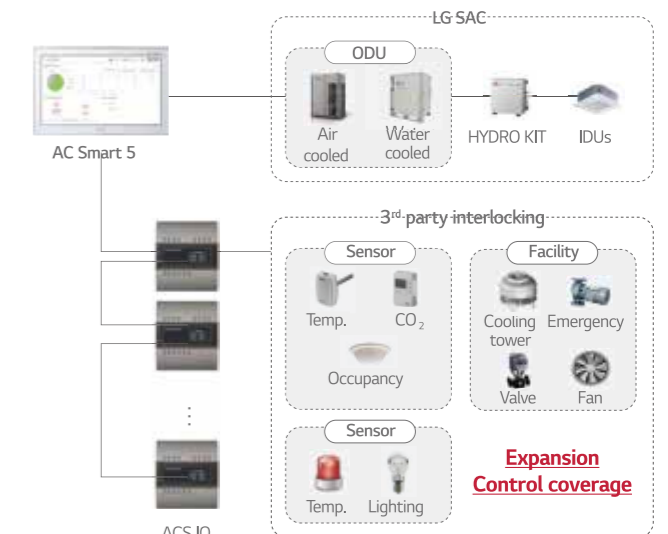
Multi Level Group Composition

User can make frequent and multi level group to control and monitor the device easily.



Interlocking with 3rd party equipment

AC Smart 5 can make operation scenario with 3rd party equipment by ACS IO Module. Control coverage is expanded. (Air conditioner only → Sensors, Fans, Pumps, Switches...)



ACP 5

Advanced solution for BMS integration up to 256 units via BACnet and Modbus protocol as well as its own smart management function with web server interface.



PACP5A000

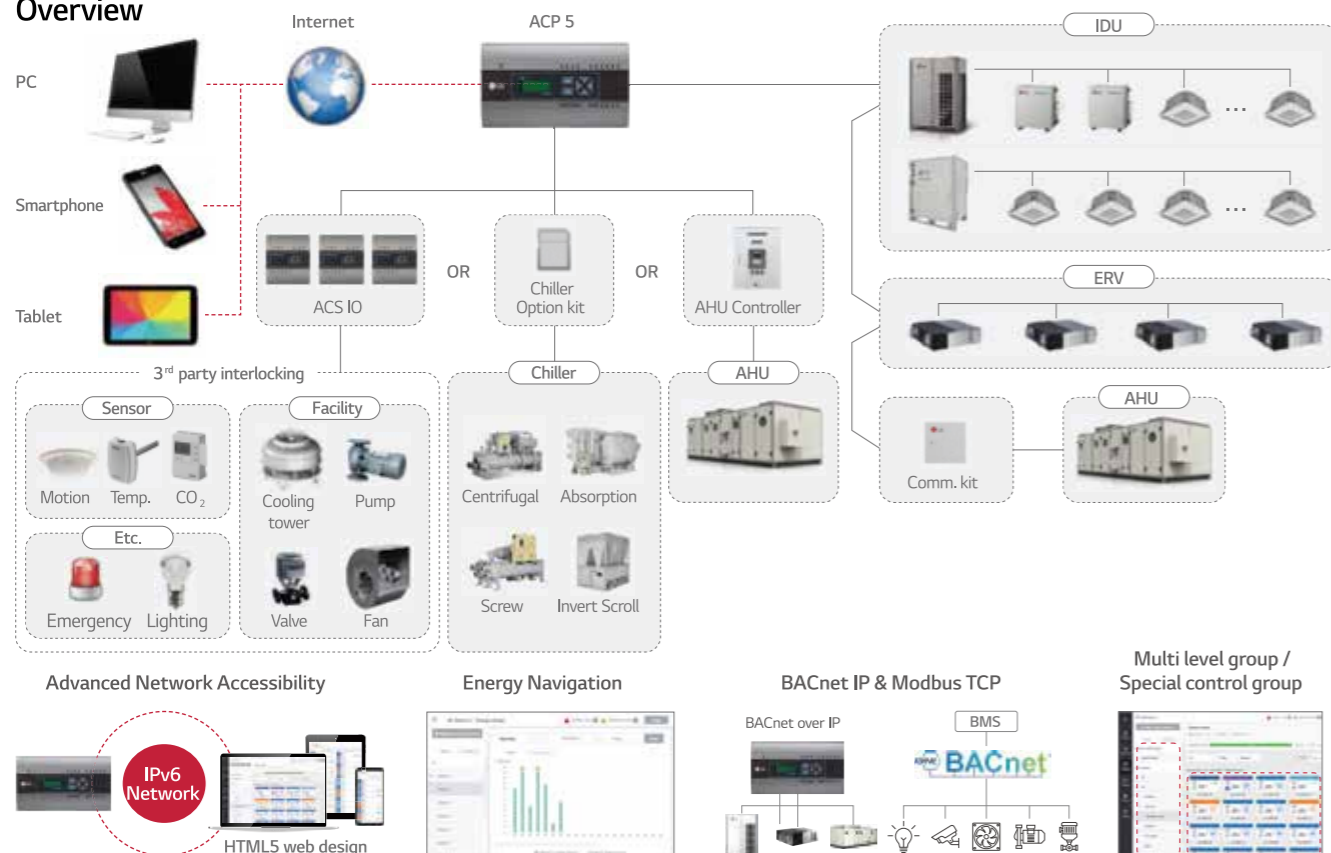
Features & Benefits

- The central controller allows control of the LG HVAC system by various platforms. (PC, Smartphone, Tablet)
 - DI : 10 / DO : 4
 - Max. 256 IDU control
 - BACnet IP/Modbus TCP
 - Schedule
 - Map view (Visual navigation)
 - Time limit control / Auto change over
 - Energy monitoring
 - History / Operation trend
 - Interlock with 3rd party equipment (ACS IO, ACU IO Module is needed)
 - Multi level grouping
 - Emergency stop & alarm
 - Error alarm by e-mail
 - Air quality monitoring
 - Air purification function control

Model Name	PACP5A000
Size (W x H x D, mm)	270 x 155 x 65
Interfaceable Products	MULTI V / ERV / ERV DX / HYDRO KIT / THERMA V / AHU kit / LG Chiller ¹⁾
Maximum number of units	256
Individual / Group Control	On & Off / Mode / Temperature / Fan speed
Individual Controller Lock	Temperature / Mode / Fan speed / All
Advanced Function Setting and Display ²⁾	Comfort Cooling / ODU Low Noise / ODU Defrost Mode / Comfort Level display / CO ₂ Level display (for ERV / ERV DX) / Night Time Free Cooling (for ERV / ERV DX)
Error Check	○
Schedule	Weekly / Monthly / Yearly / Exception day
Web Access	○
Emergency Stop & Alarm Display	○
Power Consumption Monitoring (with PDI)	○
Auto Changeover / Setback	○
Temperature Limit	○
Operation Time Limit	○
Visual Navigation	○
Operation Trend	○
Interlock Control	○
Virtual Group Control	○
ODU Capacity Control	○
Energy Navigation (with PDI)	○
Daylight Saving Time	○
External IO Port	DI 10 / DO 4
BMS Integration ³⁾	BACnet IP / Modbus TCP
IPv6 Support	○

※ ○ : Applied, - : Not Applied
 1) Chiller Option Kit (PCHLLN000) is required.
 2) It is only available in some products.
 3) For the detail point list, please refer to the installation manual.

Overview



* Fix Public IP is mandatory. * Router's Configuration of NAT is mandatory. Open port 80 & 9300.

ACP LONWORKS GATEWAY

Lonworks easily link LG air conditioners and other existing building systems. By including ACP control function, the controlling continues even when error occurs with BMS.



PLNWKB000

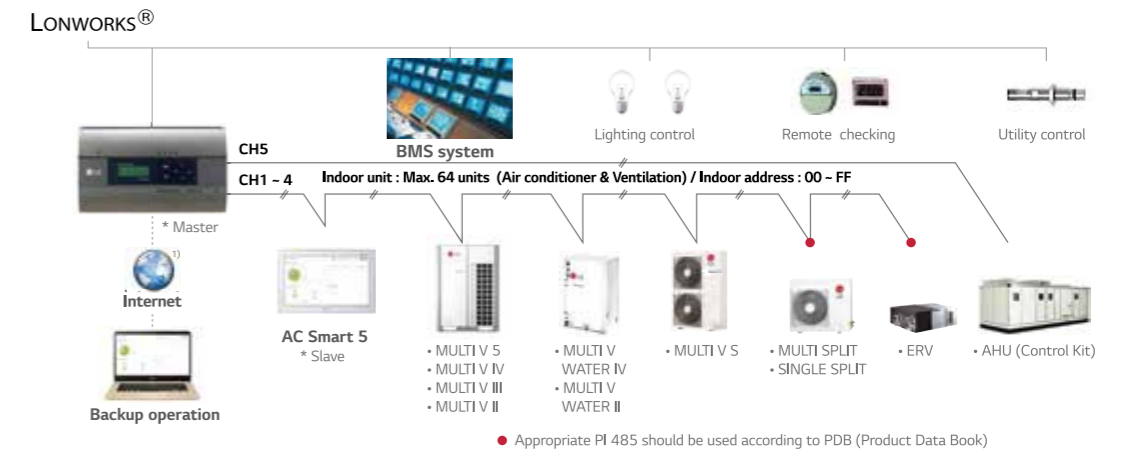
Features & Benefits

- Connect to use Lonworks protocol and LG air conditioner protocol.
- Process ability (Max.connection) : Indoor unit 64EA, AHU Control Kit : Max. 16EA
- Self installation verification using internet (Web Server Included) - Diagnosis of communication status on LG Air-conditioner network
- It offers a variety of functions as ACP which allows the customer to efficiently control various types of equipment from the customer's own Integration.

Control	Monitoring
On / Off Command	On / Off
Operation Mode Setting	Operation Mode
Lock	Lock
Temperature	Temperature
Fan Level	Fan Level
Fan Direction Auto	Fan Direction Auto
Mode Lock	Mode Lock
Fan Level Lock	Fan Level Lock
Temperature Lock	Temperature Lock
Temperature Lower Limit	Temperature Lower Limit
Temperature Higher Limit	Temperature Higher Limit
Peak Convert Cycle	Peak Convert Cycle
Peak Setting	Peak Setting
Temperature Unit	Temperature Unit
Total Temperature Lock	-
Total On / Off	-
Total Temperature	-
-	Product Type
-	Product Address
-	Current Temperature
-	Alarm
-	Power
-	Error Code
-	Peak Current Operating Percent
-	Total Accumulate Power

※ ○ : Applied, - : Not Applied

Overview



* Fix Public IP is mandatory.
 * Router's Configuration of NAT is mandatory. Open port 80 & 9300.
 1) Assignment of public IP address is required to access central controller through internet.

PI 485

PI 485 converts LG air conditioner's protocol to the RS485 protocol for the central controller.



PHNFP14A0

- Power : Connected with the Indoor Units
- 1 for Each Indoor Unit - Indoor Unit (ERV)