



Owner's & Installation Manual

Management system

IMMP-BAC(A) (K05.2-BACNET(A))





Thank you very much for purchasing our product. Before using your product, please read this manual carefully and keep it for future reference.

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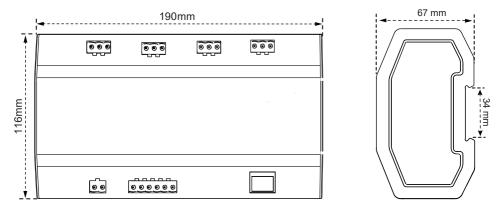
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PART 1. FUNCTION OVERVIEW

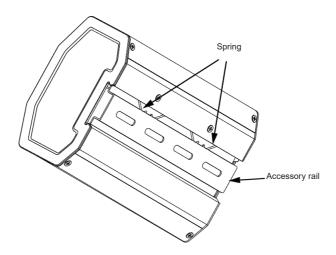
1 Installation Diagram

1.1 Product Dimensions



1.2 Installation Diagram

The product uses the rail-type installation method: first secure the rail in the packing carton to the position where the product will be installed, and then fasten the spring of the gateway on the rail.



2 Connection Indication

2.1 Interface Definition

Ethernet interface connection to BACnet/IP network.

			24VAC Reserved C R	
LAN		Cıl	POWER •	
XYE1 •	XYE2 •	XYE3 •	XYE4 •	
XYE1 •	XYE2 •	XYE3 •	XYE4 •	

Port connection from air conditioner to X/Y/E bus of outdoor unit.

MAX64

2.2 System Connection Diagram

Note

The gateway must be on the same network segment as the upper computer of the building's control system, or it will not be able to communicate with the upper computer.

3 Product Description

Every main wire in this device can connect with a maximum of 64 indoor and 32 outdoor units. The device features 4 main wires and can connect with a total of 384 indoor and outdoor units. It features a built-in IMMP-BAC(A) (K05.2-BACNET(A)) function module and IMMPRO gateway function module. The gateway can be used with IIMMPRO to enable the power billing function. The VRF system and building management system are also integrated.

3.1 Device Monitor

- Integrate with the building's system: the building management system obtains information about the indoor and outdoor units by accessing a specific BACnet object. For details, refer to the corresponding "object list". You can use the building management system to set the operating status of the indoor unit by changing the corresponding BACnet object. Refer to the corresponding "Object List" for details.
- 2) Integrate with the IIMMPro for VRF central air conditioner: this enables the power billing function for the VRF unit. Or log into the web interface of IMMPRO gateway section under the monitoring gateway to monitor multiple connections. For more details, see the IMMPRO gateway operation section of this manual.

3.2 Supported Models

* Please confirm with factory engineers regarding the models and functions of indoor and outdoor units.

3.3 Based on Web Technologies

Using the WEB debugging function (it is recommended that you use the Google Chrome browser), the gateway can connect to the local area network via the switch. The computer or device must share the same network segment as the IP address of the central monitoring gateway.

- 1) This gateway's default IP address is 192.168.1.8, which can be used to log in to the debugging page of the IMMP-BAC(A) (K05.2-BACNET(A)) function.
- 2) Integrate with the IIMMPro for VRF central air conditioner: this enables the power billing function for the VRF unit. Or log into the web interface of IMMPRO gateway section under the monitoring gateway to monitor multiple connections. For more details, see the IMMPRO gateway operation section of this manual.

The web login address for the IMMPRO gateway function is: gateway IP: 8000. If the gateway is 192.168.1.8, the web server address is: http://192.168.1.8:8000/ui/login/login.html. The webpage function section consults the pure gateway function section.

PART 2. BACNET FUNCTION OVERVIEW

1 Applications

It is used for communications between the VRF system and the building management system that has the BACnet interface, to integrate the VRF system with the building management system.

2 Features

Connect the VRF system to the BACnet network.

Support IMMP-BAC(A) (K05.2-BACNET(A)) protocols, and comply with BACnet standards. Each port can be connected to a maximum of 64 indoor units, and the total number of indoor and outdoor units on all 4 ports is 384 at most.

Plug-in terminal interface is used to facilitate the wiring.

3 Specifications

No.	Function	Description
1	Input power	24VAC 50/60Hz
2	Communication interface	4X RS485 interface 1X RJ45 Ethernet port Ethernet port
3	Operating environment	Temperature: 0-40°C
4	Weight	800g

4 Statement on Conformity of BACnet Protocol Implementation

4.1 Product Description

The BACnet gateway monitors the outdoor and indoor VRF units via the RS485 interface, and communicates with the building management system using the IMMP-BAC(A) (K05.2-BACNET(A)) interface.

4.2 Supported BACnet Consistency Categories

Category 3

 \checkmark

4.3 Supported BACnet Function Groups

COV event initialization	\checkmark	Device communications	
COV event response			

4.4 Supported BACnet Protocol Application Services

Applicable Service	Initiate a request	Execute the request
Verified COV notifications	\checkmark	
Reserved for COV		\checkmark
Non-verified COV notifications	\checkmark	
Read attributes		\checkmark
Read multiple attributes		
Write attribute		
Write multiple attributes		
Device communications and control		
Who-Has		
I-Have	\checkmark	
Who-Is		
I-Am	\checkmark	

4.5 Supported Protocol Object Categories

Object Type	Support?	Can this be dynamically created?	Can this be dynamically deleted?	Optional attribute	Writeable attribute
Analogue input	\checkmark				
Analogue output	\checkmark				
Analogue	\checkmark				
Binary input	\checkmark				
Binary output	\checkmark				
Binary	\checkmark				
Device	\checkmark				
Multiple input status	\checkmark				
Multiple output status	\checkmark				
Multiple status values	\checkmark				

4.6 Data Link Layer Options

 \checkmark

ISO 8802-3,10BASET

4.7 Supported Character Sets

Support for multiple character sets does not imply that all these character sets are				
supported at the same time.				
\checkmark	ANSI X3.4			

4.8 Special Functions

Segment request support	☑ yes	🗌 no	Window size: 1476
Segment response support	V yes	🗌 no	Window size: 1476

5 Configuration Instructions

Before use, you need to configure the device. To access the configuration page, start a browser and enter the device IP address.

5.1 Time and Date Settings

You can set the date and time. The settings take effect immediately.

5.2 Safety Settings

You can set the admin password. The settings take effect immediately. The admin account is "admin", and the default password is "123456".

5.3 Network Settings

The default IP address of the Ethernet port is "192.168.1.8". You may ask the network administrator to assign an IP address according to actual circumstances. Then, you can access the configuration page to change the IP address of the gateway. A pure gateway.

5.4 BACnet Settings

The BACnet network number is in the range of 2~254. You need to restart the device for the new settings to take effect. Different gateways must have different BACnet network numbers, and the same network number cannot be used for other devices. The rules to generate the BACnet device instance number are as follows:

BACnet device instance number for indoor unit = (BACnet network number * 1000) + (Port number * 1000) + (Indoor unit address);

BACnet device instance number for outdoor unit = (BACnet network number *1000) + (Port number *1000) +100+ (Outdoor unit address).

485 port number: $0\sim3$. For the 485 port near the network port, the number is 0. Indoor unit address: $0\sim63$; outdoor unit address: $0\sim31$.

Note: The control operation of the air conditioner should not be too frequent, so that the command cannot be executed in time and the command is lost. It is recommended that commands be spaced at least 200 milliseconds apart.

6. Object List

The following describes the abbreviations used for different object types:

Object Type	Abbreviation
Analog Input	AI
Analog Output	AO
Analog Value	AV
Binary Input	BI
Binary Output	во
Binary Value	BV
Multi-state Input	MI
Multi-state Output	МО
Multi-state Value	MV

6.1 BACnet Objects for Indoor Units

The BACnet device for each indoor unit provides the following objects.

Object ID	Object Name	Current Value Description	R/W
AI 1	Room Temperature	Room temperature in °C	R
AI 7	Malfunction Code	Error Code (see 6.4)	R
AI 8	Outlet Air Temperature	Outlet Air Temperature in °C	R
AI 9	EXV Opening	EXV Opening	R
AI 10	Software Version	Software version	R
AI 11	Indoor type	Indoor type 0. 4-Way Cassette (4-WAY) 1. 4-Way Cassette (4-WAY) 2. Wall-mounted 3. Medium Static Pressure Duct (M-Duct) 4. Low Static Pressure Duct (L-Duct) 5. Air Handling Unit (AHU) 6. High Static Pressure Duct (H-Duct) 7. Compact 4-Way Cassette (COMPACT) 8. Ceiling & Floor 9. Floor Standing 10. Floor Standing 11. Fresh Air Processing Unit 12. Inverter Split AC 13. Heat Recovery Ventilator (HRV) 14. 1-Way Cassette 15. 2-Way Cassette 15. 2-Way Cassette 16. Console 17. High temperature hydro module (HTHM) 18. Fresh Air Processing Unit 20. Fresh Air Processing Unit 20. Fresh Air Processing Unit 21. AHUKIT (return air control) 22. Floor standing 24. AHUKIT (discharge air control)	R
AI 12	Indoor Horses	Indoor Horses	R
AI 13	T2A	T2A temperature in °C	R
AI 14	T2B	T2B temperature in °C	R

Object ID	Object Name	Current Value Description	R/W
BI 2	Alarm Indication	Indicates the error status of the indoor unit: 0 - No error; 1 - Error	R
BV 1	On/Off Setting	ON/OFF Settings for Indoor UnitsO - OFF 1 - ON. When ON is selected, the operating mode, fan speed, and temperature settings are sent based on records from the most recent time the indoor unit was used. If the indoor unit is turned off when the gateway first comes online, the default settings will be cooling at 24 degrees Celsius, with low fan speed (1).	RW
BV 4	Remote Control Lock Setting	0 - Unlock remote control; 1 - Lock remote control	RW
BV 5	Controller Lock Setting	0 - unlock wired controller, 1 - lock wired controller	RW
MV 1	Mode Setting	Mode setting: Mode setting: 1 - OFF, 2 - Fan, 3 - Cool, 4 - Heat, 5 - AUTO, 6 - Dry.	RW
MV 2	Fan Speed Setting	Fan speed setting: Fan speed setting: 1~7: 1~7 fan speed; 8 - AUTO; 9 indicates that the fan is off (only used to show the status of the fan, cannot set the fan speed to off). For models with 3 fan speeds: 1, 2 - low fan speed; 3, 4 - mid fan speed; 5, 6, 7- high fan speed.	RW
MV 3	Mode Limit Setting	The current value, "1", indicates the mode limit is unlocked, "2" indicates the cooling mode is locked, and "3" indicates the heating mode is locked. For indoor units that do not support mode lock, the setting for this variable is not valid.	RW
MV 5	Fan Lock/Unlock Setting	 1~7: 1~7 - Lock fan speed; 8 - Unlock. For models with 3 fan speeds: 1, 2 - Lock on low fan speed; 3, 4 - Lock on mid fan speed; 5, 6, 7 - Lock on high fan speed. 	RW
AV 1	Temperature Setting	Temperature setting, unit is °C, range is 10-30.	RW

Object ID	Object Name	Current Value Description	R/W
AV 2	Dual Point (Cooling) Setting	The set cooling temperature for AUTO mode must be greater than or equal to the set heating temperature for AUTO mode. Otherwise, the gateway may automatically change the set cooling temperature to make its value the same as the set heating temperature. If non-automatic mode is used, this is equivalent to AV 1. range is 10-30. (unit: °C)	RW
AV 3	Dual Point (Heating) Setting	The set heating temperature for AUTO mode must be less than or equal to the set cooling temperature for AUTO mode.Otherwise, the gateway may automatically change the set heating temperature to make its value the same as the set cooling temperature. This variable is valid only when the indoor unit runs in AUTO mode. When not in AUTO mode, this variable is invalid. range is 10-30. (unit: °C)	RW
AV 4	Cooling Temperature Limit Setting	The current value, "0", indicates that the lower limit of the cooling temperature is unlocked, while "17~30°C" indicates the lower limit of the cooling temperature. For indoor units that do not support the feature to lock the lower limit in cooling mode, the setting for this variable is not valid.	RW
AV 5	Heating Temperature Limit Setting	The current value, "0", indicates that the upper limit of the heating temperature is unlocked, while "17~30°C" indicates the upper limit of the heating temperature. For indoor units that do not support the feature to lock the upper limit in heating mode, the setting for this variable is not valid.	RW
AV 6	Swing Setting	 0 - Maintain the current swing angel, 0 - Maintain the current swing angel, 1~5 - Swing angle 1-5, 6-Auto swing off, 7-Auto swing on. 	RW

R indicates that the object's current value is read-only. W indicates that the object's value can be written. "RW" indicates that the current value of the variable corresponds to the current status of the indoor unit, and this value can be written to change the related status of the indoor unit.Notes:Some models do not support all of the above parameters, please contact technical support engineer for details.For example: Indoor units in cooling only system do not support auto or heating modes, if auto or heating modes are required , the actual operating mode of the indoor units may not be the same as expected.

6.2 Object List for Outdoor Units

The BACnet device for each outdoor unit provides the following objects:

Object ID	Object Name	Current Value Description/Notes				
MI 1	Mode Status	Operating Mode for Outdoor Unit 1 - Off; 2 - Reserved; 3 - Cooling; 4 - Heating; 5 - Forced Cooling; 6 - Master Cooling; 7- Master Heat; 8 - Forced Heat	R			
BI 1	On/Off Status	0 - OFF; 1 - ON	R			
BI 2	Alarm Indication	0 indicates that there is no error;1 indicates an error	R			
BI 3	SV1	SV1	R			
BI 4	SV2	SV2	R			
BI 5	SV3	SV3	R			
BI 6	SV4	SV4	R			
BI 7	SV5	SV5	R			
BI 8	SV6	SV6	R			
BI 9	SV7	SV7	R			
BI 10	SV8	SV8	R			
BI 11	ST1	ST1	R			
BI 12	ST2	ST2	R			
BI 13	ST3	ST3	R			
BI 14	SV8B	SV8B	R			
BI 15	SV9	SV9	R			
BI 17	HEATER 1	HEATER 1	R			

Object ID	Object Name	Current Value Description/Notes	R/W
BI 18	HEATER 2	HEATER 2	R
AI 1	Ambient Temperatue	Ambient temperature in °C	R
AI 2	Compressor 1 Freq	Compressor 1 frequency in Hz	R
AI 3	Compressor 2 Freq	Compressor 2 frequency in Hz	R
AI 4	Compressor 1 Discharge Temp	Compressor 1 discharge temperature in °C	R
AI 5	Compressor 2 Discharge Temp	Compressor 2 discharge temperature in °C	R
AI 6	High Pressure	High pressure for compressor in bar	R
AI 7	Low Pressure	Low pressure for compressor in bar	R
AI 8	Malfunction Code	Error Code (see 6.4)	R
AI 9	Fan 1 Speed	Fan speed for Fan 1	R
AI 10	Fan 2 Speed	Fan speed for Fan 2	R
AI 11	Т3	T3 in °C	R
AI 12	ТЗВ	T3B in °C (reserved)	R
AI 13	Version	Software Version	R
AI 14	Outdoor type	Outdoor type	R
AI 15	Outdoor Horses	Outdoor Horses	R
AI 16	Exv1 opening	Exv1 opening	R
AI 17	Exv2 opening	Exv2 opening	R
AI 18	Exv3 opening	Exv3 opening	R
BV 1	Emergency Stop	(reserved) 0 - emergency stop OFF; 1 - emergency stop ON	R

6.3 Object List for HTHM Units

The BACnet device for each HTHM unit provides the following objects:

Object ID	Object Name	Current Value Description/Notes	R/W
AV 50	Water Heating Temperature Setting	Heating-water temperature setting, unit is °C, range is 25-80.	RW
AV 51	Heating Temperature Setting	Heating temperature setting, unit is °C, range is 25-80.	RW
AV 52	Heating Temperature Lock	The current value, "0", indicates that the limit of the heating temperature is unlocked, "25~80°C" indicates the upper limit of the Heating temperature, "254" indicates the temperature non-adjustable.	RW
AV 53	Water Heating Temperature Lock	The current value, "0", indicates that the limit of the Heating-water temperature is unlocked, "25~80°C" indicates the upper limit of the Heating-water temperature, "254" indicates the temperature non-adjustable.	RW
AV 60	Water Inlet Temperature	Water Inlet Temperature in °C	R
AV 61	Water outlet Temperature	Water outlet Temperature in °C	R
AV 62	Water Tank Temperature	Water Tank Temperature in °C	R
AV 63	Error Code	Error Code (see 6.4)	R
AV 64	Tf	Tf temperature in °C	R
AV 65	T2A	T2A temperature in °C	R
AV 66	Τ7	T7 temperature in °C	R
AV 67	T7C	T7C temperature in °C	R
AV 68	Pe	Pe in bar	R
AV 69	Pc	Pc in bar	R
AV 70	EXV 1	EXV 1 opening	R
AV 70	EXV 1	EXV 1 opening	R

Object ID	Object Name	Current Value Description/Notes	R/W
AV 71	EXV 2	EXV 2 opening	R
AV 72	Need	HTHM need	R
AV 73	Power	Power	R
AV 75	Compressor Frequency	Compressor Frequency(Hz)	R
AV 76	Software Version	Software Version	R
MV 78	Heating Lock	1 - Lock ON; 2 - Lock OFF; 3 - Unlock	RW
MV 79	Heating-water Lock	1 - Lock ON; 2 - Lock OFF; 3 - Unlock	RW
MI 56	Current Mode	1 - Off; 4 - Heating; 6- Water Heating;	R
BV 90	Heating On/Off	0 - OFF; 1 - ON	W
BV 91	Water Heating On/Off	0 - OFF; 1 - ON	W

6.4 Error Code

Error Code	Corresponding Error
0	No error
1~20	A0~AF, AH, AL, AP, AU
21~40	b0~bF, bH, bL, bP, bU
41~60	C0~CF, CH, CL, CP, CU
61~80	E0~EF, EH, EL, EP, EU
81~100	F0~FF, FH, FL, FP, FU
101~120	H0~HF, HH, HL, HP, HU
121~140	L0~LF, LH, LL, LP, LU
141~160	J0~JF, JH, JL, JP, JU
161~180	n0~nF, nH, nL, nP, nU
181~200	P0~PF, PH, PL, PP, PU
201~220	r0~rF, rH, rL, rP, rU
221~240	t0~tF, tH, tL, tP, tU
241~260	U0~UF, UH, UL, UP, UU
Reserved	

Notes:

1) A0~AF refers to A0, A1, A2, A3, A4, A5, A6, A7, A8, A9, AA, AB, AC, AD, AE, AF, etc.

2) In cases where the error code displayed does not reflect the error affecting the machine, the machine's actual error should be given priority. The specific meaning of the error code is based On the interpretation of the service manual.

PART 3. M-interdace FUNCTION OVERVIEW

1 Select Language

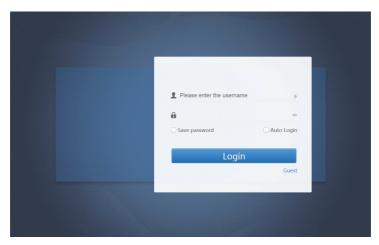
The language selection interface appears only when the unit is powered on for the first time and no language has been selected.

Note: The language can be changed later in the Settings menu.

Language	
English *	
Next	

2 Login

(Features in this section on the Web terminal and touch-screen are consistent. The "Save Password" may be available depending on the browser you used.)



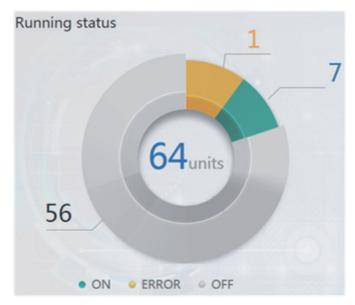
Username	Please enter username
Password	
Save password	Save Password
Auto login	O Auto Login
Login	Login
Guest login	Guest
Default account name	normal
Initial password	123456

3 Home Page



Default software display page once you have logged in successfully:

3.1 Overview of Indoor Unit Running Status

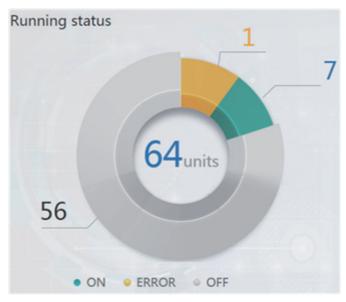


This section classifies the status of the indoor units into the following three categories:

Running	• ON
Error (Error includes error and offline)	ERROR
Off	OFF

3.2 Device Status List

Tap "Indoor Unit Status Statistics" to display the device status list.



Indoor Unit Status Statistics

IDU		0	DU	HTHM						
Name	ID	Туре	Group No.	Mode	Setpoint	C Setpoint	H Setpoint	Fan	Room temp.	Error code
idu-2-0-00	2-0	0	0	Cool	19			м	20	
idu-2-0-01	2-1	0	0	Heat	19			М	20	
idu-2-0-02	2-2	0	0	Dry	19			м	20	
idu-2-0-03	2-3	0	0	Fan				М	20	
idu-2-0-04	2-4	5	0	Cool	19			м	20	
idu-2-0-05	2-5	5	0	Heat	19			М	20	
idu-2-0-06	2-6	1	0	Heat					20	E4
idu-2-0-07	2-7	5	0	Heat	19			Off	20	
idu-2-1-08	2-8	21	0	OFF					-25	
idu-2-1-09	2-9	21	0	OFF					-25	
				First	Prev	1/6 Next	Last			
† 1			4							11:22 PI

		_								
IDU		OD	U F	ТНМ						
Name	ID	Mode	Error code	Ambient temp.	FAN1	FAN2	kWH	Power	Demand	Mode Priority
odu-2-0-00	2-0	Heat		10	10	44	0	8	2	Auto
odu-2-0-01	2-1	Heat		80	10	10	0	10	2	Auto
odu-2-0-02	2-2	Heat		80	10	44	0	13	2	Auto
odu-2-0-03	2-3	Heat		80	10	10	0	30	2	Auto
odu-2-1-04	2-4	OFF	H2	20			0	10	2	Auto
odu-2-1-05	2-5	OFF		20			0	13	2	Auto
odu-2-1-06	2-6	OFF		20			0	13	2	Auto
odu-2-1-07	2-7	OFF		20			0	13	2	Auto
odu-2-2-08	2-8	Heat		20	10	10	0	20	2	Auto
odu-2-2-09	2-9	Heat		20	10	10	0	15	2	Auto
				First Prev	1/4 N	ext l	ast			
A			*							11:23 PM

IDU		OE	ο υ	нтнм				
Name	ID	Туре	Group No.	Mode	H Setpoint	WH Setpoint	Water inlet temp.	Water outlet temp.
idu-2-7-60	2-60	17	0	OFF	-	-	-25	-25
idu-2-7-61	2-61	17	0	OFF			-25	-25
idu-2-7-62	2-62	17	0	WH	25	25	90	90
idu-2-6-63	2-63	17	0	OFF			90	90
				First				
				First	Prev 1/1	Next Last		
			•					

Scroll through the interface horizontally to check more parameters of the IDU, ODU, and HTHM.

3.3 Function Menu

Navigate through all the functions at the bottom of the home page;



3.4 Special Menu

Function	Icon
Back to Home	A
Operating History	==

Note: The interface response time may lag if users query a long period of operation history.

4 Control

Control									
Group Sys, Map	16 units								
e Floor 1	0 6 A Cool	● ● A ○ — ❀ Cool	● ● A ○ ■ Heat	● ● A ○ ■ ★Heat	● ● A ○ ■ +Heat	● ● A ○ ■ ★ Heat			
Room 101	27.5 [℃]	27.5 ^{°c}	27.5 ^{°c}	27.5°c	27.5 [℃]	27.5 [℃]			
Room 102	Rt 25 ^{°C}	Rt 25°C	Rt 25 ^{°C}	Rt 25°C	Rt 25°C	Rt 25°C			
	0680	0080	0680	0680	0680	0080			
• Floor 3		■ *Heat	Heat → Heat	Heat → Heat	Heat	Heat → Heat			
Ungrouped	27.5°C Rt 25°C	27.5°C	27.5°C	27.5°C	27.5°C	27.5°C			
	idu-2-0-14	ldu-2-0-15	idu-2-0-16	idu-2-0-17	idu-2-0-18	idu-2-0-19			
	 ● ● ● ○ ● ● ● ● ● ● ● ● ○ ● ● ● ● ● ● ● ○ ● ● ● ● ● ● ● ○ ● ● ● ● ● ● ● ● ○ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	● C A ○	O C A ○ III → Fan	O C A O III ♣ Fan					
	27.5 [℃]	27.5°c	_*C	_°C					
	Rt 25°C	Rt 25°C	Rt -25°C	Rt -25 ^{°C}					
	iau-2-0-2	iau-2-0-20	idu-2-0-48	iau-2-0-50					

Control

Function	Inactive	Active
Indoor Unit View - Group	£	2
Indoor Unit View - System	CCO C	<
Indoor Unit View - Map	\bigcirc	2

Select "Group" to view information of the corresponding indoor unit on the right. A series of icons are displayed, and the details are as follows.



No.	Description
1	The colours here represent the operating modes. For details, refer to the Table of Basic Mode Images.
2	Indicators (in order from left to right): error, schedule, lock, swing. Icon is white when active, such as the lock indicator in the figure.
3	Displays the corresponding device model. For details, refer to the Model Table.
4	The icons here represent the operating modes. For details, refer to the Table of Basic Mode Images.
5	Ambient temperature
6	Set temperature
7	You can change the indoor unit name on the "Install" page.

Note: The error code shown in the indoor unit on the old platform is different from the error code shown in the nixie tube display of the indoor unit.

Function	Remarks
•	Error
0	Schedule
8	Lock
0	Swing

Basic Mode Images

Off, Error, Offline (grey)	Auto (dark blue)	Cool, EXCH (light blue)	Heat, BYP WH F (red) (orange)		Fan, FREE (green)	Dry, (yellow)
0 60	٨	*	11 🔆	T ≋	∻ ∩≛	٥

Model:

00
\rightarrow

When the refrigerant system supports the use of auto mode for dual setpoints, a small horizontal bar will appear below the model icon, e.g.:

4-Way Cassette (4-WAY)		
---------------------------	--	--

4.1 Indoor Unit View - Group

Note: The group interface has a default "Ungrouped". All the devices that have not been assigned a group are included here.

The user defined groups are shown on the left of the device monitor page. Once a group is selected, the indoor units of the selected group are shown on the right.

21 units					
Cool	● ● ● ● ● ● ● ● ●	● C A C	● ● 🔒 🔆	● ● A ○	● ● ● ●
27.5°°	27.5°°	27.5 [℃]	27.5 [℃]	27.5 [°] ℃	27.5 [°] ℃
idu-2-0-0	idu-2-0-1	idu-2-0-10	idu-2-0-11	idu-2-0-12	idu-2-0-13
🛄 🔅 Heat	Heat	Heat	🔟 🔅 Heat	🛄 🔅 Heat	🛄 🔅 Heat
27.5 [°] ℃	27.5 [°] ℃	27.5 [°] ℃	27.5 [°] °	27.5 [°] ℃	27.5℃
idu-2-0-14	idu-2-0-15	idu-2-0-16	idu-2-0-17	idu-2-0-18	idu-2-0-19
Cool **	Heat	Heat 🔆	L Cool	Cool **	Fan 🚱
27.5 [°] °	27.5 [°] °	27.5 [°] °	27.5 [°] ℃	27.5 [°] °	_°C
idu-2-0-2	idu-2-0-20	idu-2-0-23	idu-2-0-3	idu-2-0-4	idu-2-0-48
🕘 🕒 🔒 👄	0 6 6 0 /				

The top left corner shows the number of indoor units in the group.

4.1.1 Order of Display for Indoor Unit

Indoor units can be sorted by name or mode.

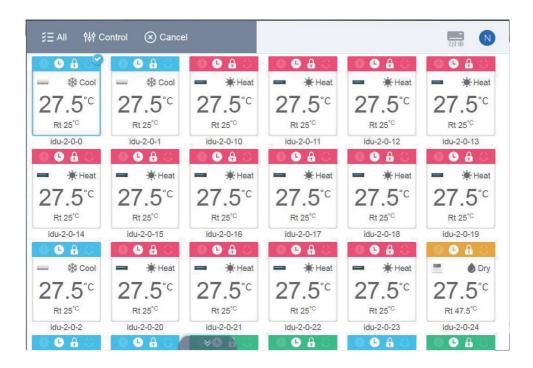
Function	Inactive	Active
Sort by mode Auto, Cool, Heat, Dry, Fan, Off, Error, Offline	 ???**	 ₹\$\$\$
Sort by name	N	N

4.1.2 General Controls for Indoor Unit

Tap to select the indoor unit and change its status to "selected".



At the top left corner, you will see "All", "Control", and "Cancel".



Tap "All" to select all the indoor units on the interface. If you tap an indoor unit after "All" is selected, the indoor unit will be unchecked, and "All" will change to normal mode. If Cancel is selected, all indoor units will be unchecked.

			Contro				
Group	НР						
• 1 • 2	ON/OFF	ON OFF	₩ Cool		D ry	∳ Fan	DFF
• 3	Setpoint						
G 31			26°C				DFF
⊕ 32 Ungrou						+	
	Swing			Fan		1 -	3
			Cancel	Apply			
		idu-0-5-47 idu-0	-6-48 idu-0-	6-49			

When simultaneously controlling multiple indoor units:

Group	HP HR	R FAPU FAPU(HR) HRV				N
• 1 • 2	ON/OFF	ON OFF	₩ cool		ا Dry	↓ Fan	DFF
⊜ 3	Setpoint						
G 31			26°C) DFF
⊕ 32 Ungrou	-					+	JFF
	Swing			Fan		1 *	
		C	Cancel	Apply			
		idu-0-5-47 idu-0-6	-48 idu-0-	6-49			

4.2 Indoor Unit View - System

This is similar to "Group Navigation", except that the system (instead of the groups) is on the left. System name is default and cannot change.



5 Schedule

Once you have tapped

to view the schedules.



on the Home Page to go to the function module, go to the page

(Januar	y 2018		Þ	Today	Running schedule
Sun	Mon	Tue	Wed	Thu	Fri	Sat	• 21:32 Floor1
31	1	2	3	4		6	On Cool 20°C Fan 1
7	8	9	10	11	12	13	22:31 Floor1
14	15	16	17	18	19	20	On Cool 20°C Fan 1
21	22	23	24	25	26	27	
28	29	30	31	1	2	3	
4	5	6	7	8	9	10	

No.	Functions
1	 From left to right, the respective corresponding options to display the schedule are: 1. Calendar View (by date); 2. Plan View (by plan); 3. Device View (by device); Tap the corresponding icon to go to the respective schedule view. Default is the calendar view.

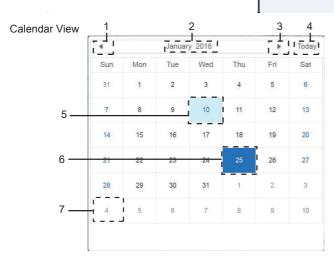
Note: Different types of indoor units cannot be added to the same schedule.

5.1 View Schedule

5.1.1 Calendar View

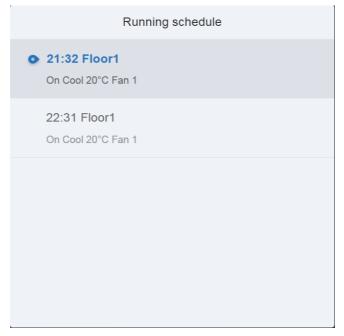
With the calendar view, select the date on the left to retrieve and view the schedule correspond ing to the selected date on the right.

4	January 2018			Þ	Today	Running schedule			
Sun 31	Mon 1	Tue 2	Wed 3	Thu 4	Fri 5	Sat 6	• 21:32 Floor1 On Cool 20°C Fan 1		
7	8	9	10	11	12	13	22:31 Floor1		
14	15	16	17	18	19	20	On Cool 20°C Fan 1		
21	22	23	24	25	26	27			
28	29	30	31	1	2	3			
4	5	6	7	8	9	10			



Calendar view

No.	Functions					
1	Tap to shift the calendar to display the previous month.					
2	Displays the year and month information of the current date.					
3	Tap to shift the calendar to display the next month.					
4	Tap to quickly jump to the month that today's date belongs to, and select today's date.					
5	Today's date that has not been selected (light blue background). Tap to select this date.					
6	Date selected (dark blue background).					
7	The grey numbers are dates not in the month shown now. Tap to jump to the month that the date belongs to.					



Schedule view

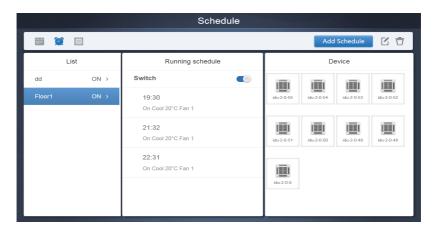
The schedule page only shows scheduled tasks that have not been performed for the selected date (arranged in the order of implementation time). The displayed information is as follows.

1. Time

2. Schedule name

3. Details of the executed command (On/off, mode, set temperature, fan speed)

5.1.2 Plan View



Tap the second icon to view the schedule by plan as shown in the figure above.

							1	
		Sche	dule					
					Add	Schedule	CŌ	Ī
	ist	Running schedule				evice		- 1
dd	ON >	Switch						
Floor1	ON >	19:30 On Cool 20°C Fan 1	I	idu-2-0-55	idu-2-0-54	idu-2-0-53	idu-2-0-52	
		21:32 On Cool 20°C Fan 1	l	idu-2-0-61	idu-2-0-50	idu-2-0-49	idu-2-0-48	
		22:31 On Cool 20°C Fan 1	1	idu-2-0-0		.		
2	2	3				4		

Calendar view (part)

No.	Functions
1	Tap the left icon to go to the schedule editor. Tap the right icon to delete the selected schedule.
2	The schedules are arranged in order of their time created. Tap to select the schedule you need. Selected schedule has a blue background colour. The schedule name is on the left of the schedule bar, and the status (ON/OFF) of the schedule is on the right.
3	Shows all the timings for the selected schedule. Use the On/Off slider to perform on/off operations on the schedule. All the events on the dates of the schedule that has been turned off are not implemented, and the status "OFF" is displayed on the schedule bar. The schedule will not come into effect until it is turned on again.
4	Shows all the indoor units associated with the schedule.

5.1.3 Device View

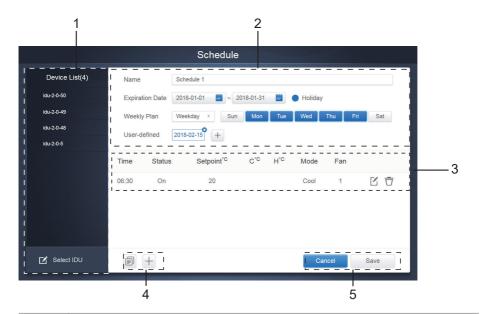
2 3 Schedule Add Schedule Device List Group 1 -Floor 1 Floor1 1 0 Room 101 I idu-2-0-50 idu-2-0-49 Ju-2-0-23 1 1 0 Room 102 Т Floor 2 C 0 Floor 3 I idu-2-0-5 idu-2-0-4 idu-2-0-3 idu-2-0-15 Ungrouped 11 ۵ U Т idu-2-0-14 idu-2-0-13 idu.2.0.12 idu-2-0-11 1 нI

Tap the third icon to go to the device view.

The page is divided into three sections.

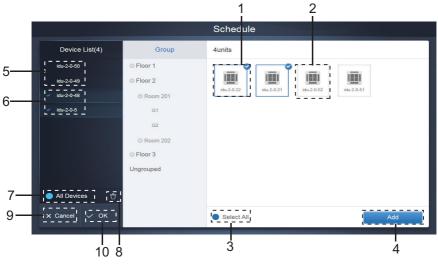
- Group list: this makes it easy to locate the device quickly. Tap "+" to expand the group, and "-" to fold the group. All the IDUs in the selected group are displayed in the second column. Tap "Ungrouped" to view devices that have not been grouped.
- 2. The second column is a list of all the devices in the selected group.
- 3. The third column is the list of schedules, and displays names of all the schedules associated with the selected device.

5.2 Add Schedule



No.	Functions
1	The device list displays all the devices related to the schedule. Tap to select and add the IDU.
2	Settings related to the schedule name and effective date.
3	Settings related to the timings and commands.
4	Copy and add the schedule timings.
5	Cancel and save

5.2.1 Add Device



Device Selection Page

No.	Functions
1	Devices waiting to be selected are displayed in the rightmost area, and these are the devices that have not been added to the selected subgroup. "1" is a selected device and its top right corner is marked with \heartsuit .
2	"2" is a device that has not been selected. Tap the unselected device to select the device. Tap again to deselect the selected device.
3	Tap • to activate "Select All". • is an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. Manually cancel the selected status of a few devices after "Select All" has been activated will not cancel "Select All". Tap • again to cancel the "Select All" option.
4	Tap to add the selected device.
5	Displays the device that has been added. Tap to select this operation. "5" is a device that has not been selected, tap to select it.
6	Displays the device that has been added. Tap to select this operation. "6" is a selected device, tap to deselect it. Left of the selected device is marked with .
7	Tap to activate "Select All". I is an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. Manually cancel the selected status of a few devices after "Select All" has been activated will not cancel "Select All". Tap again to cancel the "Select All" option.
8	Move the device that has been selected to be added to the group out of the "Add device" queue.
9	Exit without saving.
10	Save and exit.

5.2.2 Date Settings

1 —	Name	Please enter schee	dule name			
2 —	Expiration Date]~[💼 🔚 Holid	ay 3	
4 —	Weekly Plan	- I	Sun Mon	Tue Wed	Thu Fri	Sat
6 —	User-defined	+		 5		

No.	Functions
1	Tap the input box to enter a name. Maximum length is 80 English characters (40 Chinese characters). Note that system is unable to save the name if it contains the following symbols: ([`~!#\$^&*()= {}:;,.<>/?~~! Y () — [] ": "", , , ?; « »])
2	Tap in the white space next to the blue icon on the left to activate the date selection dialog box. Tap to select the corresponding dates, the start date is on the left and the end date is on the right. The end date cannot be earlier than the start date.
3	Check the blue icon on the left next to Holiday to activate the holiday exception function which is to carry out all the plans in the schedule during the holiday period. The icons that are checked are active.
4	Quick select for the weekly plan. Select the particular day to implement the plan for the day. If the day falls on a working day (Mon to Fri), the schedule for the day is implemented on the day itself.
5	Manual option for weekly plan. Tap the date to activate or deactivate it. Blue indicates active status, while white indicates inactive status.
6	You can add a custom date to the schedule as an individual date. Tap the "+" sign to add a date each time, and you may add up to 5 dates. Tap once to select and add the date. Tap " x " at the top left corner to delete this date. Tap the date in other areas to deselect it.

Note:

The schedule will not be implemented during holidays unless Holiday is selected;

The schedule on the custom date will be implemented, regardless of whether the custom date falls within the effective dates, weekly plan or holidays;

The schedule for the remaining dates must meet the requirements of the effective dates and weekly plan.

5.2.3 Add Schedule Command

Tap Tap to display the dialog box for adding scheduled commands. The following types of schedule command interfaces will be displayed according to the selected indoor unit type (you must add indoor units before creating a schedule command). After the first schedule command is created, you can tap to create a schedule command.

1. Heat pump

				Scheo	dule			
D	HP							
idu-	Time		00 - : 00		ON/OFF	ON		
	Mode		Cool		Fan			
	Setpoint							n.
				26	°C			
					=		+	
			Ca	ncel	Apply			
🗹 s								
÷		4						13:54

2. Heat recovery



3. FAPU

				Sche	edule			
D	FAPU							
idu-(Time		00 - :	00 -	ON/OFF	ON		
	Mode		Cool		Fan			
	Setpoint							n
				20	5°C			
							+	
				Cancel	Apply			
Ľ s								
÷		•						8:52

4. FAPU(HR)



5. HTHM

			Sche	dule			
D	нтнм						
idu-	Time	00 • :	00 -	ON/OFF	ON		
	Mode	Heat					
	H Setpoint						
			45	5°C			
						+	
			Cancel	Apply			
Ľ							
ŧ							

6. AHU



7. AHU (HR)

D	AHU(HR)						
idu-	Time	00	• : 00 •	ON/OFF	ON	•	
	Mode		Cool •	Fan		•	
	Setpoint					n	
			26	5°C			
						+	
			Cancel	Apply			
Ľ s	elect IDU						
÷		4					

8. HRV

			Sched	lule		
D	HRV					
idu-I	Time	00 - : 00		ON/OFF	ON	
	Mode	EXCH		Fan	Auto	
						n
		Ca	ncel	Apply		
🗹 s						
A						

Note:

- 1. Tap "+" or "-" on "Setpoint" to increase or decrease the temperature by 0.5/1 (corresponding parameters are configured in settings);
- 2. Tap "+" or "-" on "Time" to increase or decrease the time by 1;

20

3. Tap 🗊 to copy the task with the latest implementation time and add one more minute to the implementation time. The 23:59 command cannot be copied.

4.1 OF the	unico unat i		, tap 🖆	to cuit	again, an		
Time	Status	Setpoint ^{°C}	C°C	H°℃	Mode	Fan	

4. For the times that have been saved, tap	$\overline{\square}$ to edit again, and $\overline{\square}$ to delete.
--	---

Note: The time on the schedule command editing interface is fixed to the 24 hour system. The
homepage display interface can be set to display the 24 or 12 hour system.

5.2.4 Save

06:30

Tap "Save" to save all the operations on this page, and open a new schedule to add pages. If there are illegal or incomplete items, you will receive the corresponding prompts.

Cool

1

 $\Box \overline{\Box}$

Tap "Cancel" to cancel all operations to add this schedule, and exit to the calendar view for the schedule.

5.2.5 Change Schedule

On

Tap Z edit on the Home Page or tap [] on the schedule in the calendar view to change the schedule. On the Home Page, the schedule is marked by 💿. On the schedule view page, the entry point is the selected schedule.

The operating method for the schedule editor is similar to that for adding a new page. The difference is that the screen will remain on the schedule editor page for "Save".

6 Report

(Files are exported to local folder when the software is opened on a Web terminal.)

On the Home Page, tap

There are 3 modules for users to choose from:

- 1. Operating Duration
- 2. Running Record
- 3. Energy Statistics

Tap the corresponding key to enter the module.



6.1 Operating Duration

Operating duration report: View the total operation duration of the IDUs within a specified time period. Note: The schedule report and energy consumption report can be queried only after this function is enabled.

Note: The power data and running time data of the previous hour are generated at the turn of each new hour.

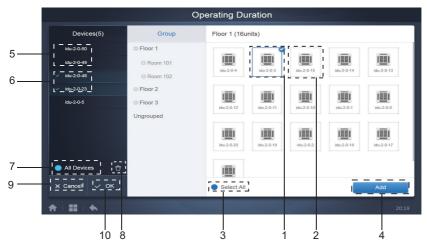
Name	Date		
	Date	Total	Cru
idu-2-0-50	2018-01-05	6930	
idu-2-0-49	2018-01-05	6930	
idu-2-0-48	2018-01-05	6930	
idu-2-0-23	2018-01-05	6930	
idu-2-0-5	2018-01-05	6930	2
	idu-2-0-49 idu-2-0-48 idu-2-0-23	idu-2-0-49 2018-01-05 idu-2-0-48 2018-01-05 idu-2-0-23 2018-01-05	idu-2-0-49 2018-01-05 6930 idu-2-0-48 2018-01-05 6930 idu-2-0-23 2018-01-05 6930

6.1.1 Query Operating Duration

Operating Duration

6.1.2 Operating Procedures

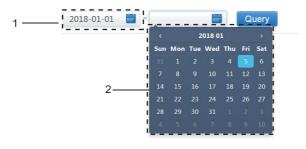
- 1. Tap the selected device to go to the device selection page.
- 2. Details of the device selection page are as follows:



Device Selection Page

No.	Functions
1	Devices waiting to be selected are displayed in the rightmost area, and these are the devices that have not been added to the selected subgroup. "1" is a selected device and its top right corner is marked with \heartsuit .
2	"2" is a device that has not been selected. Tap the unselected device to select the device. Tap again to deselect the selected device.
3	Tap to activate "Select All". to is an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. Manually cancel the selected status of a few devices after "Select All" has been activated will not cancel "Select All". Tap again to cancel the "Select All".
4	Tap to add the selected device.
5	Displays the device that has been added. Tap to select this operation. "5" is a device that has not been selected, tap to select it.
6	Displays the device that has been added. Tap to select this operation. "6" is a selected device, tap to deselect it. Left of the selected device is marked with
7	Tap ot o activate "Select All". of is an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. Manually cancel the selected status of a few devices after "Select All" has been activated will not cancel "Select All". Tap again to cancel the "Select All" option.
8	Move the device that has been selected to be added to the group out of the "Add device" queue.
9	Exit without saving.
10	Save and exit.

3. Perform the time selection once the device has been added.



Time Selection Page

No.	Functions
1	Tap in this area (except the blue calendar icon) to activate the calendar.
2	Tap any number to select the date. Selected date in the box has a light blue background, otherwise todays date is selected. The grey text is a date that is outside this month. Tap to select it. Tap the time at the top to quickly locate the date. Tap once to go to the quick selection function for the month. Tap twice to go to the quick selection function for the month. Tap twice to go to the quick selection function for the state at the top to quickly toggle the year and month. Each toggle is a 12-year duration for quick selection of date. Tap the left arrow to move to previous month or year, and the right arrow to move to the next month or year.

Note: You cannot select an HTHM and a common IDU at the same time for query. Items on the list of an HTHM differ from those on the list of a common IDU.

Devices(62)	2019-01-30	2019	9-01-31	Query			
idu-0-0-00	Name	Date	Total (H)	C running (H)	C standby (H)	H running (H)	H standby (H
idu-0-0-01	idu-0-0-00	2019-01-31	0	0	0	0	0
idu-0-0-02	idu-0-0-01	2019-01-31	0.083	0	0	0.083	0
idu-0-0-03	idu-0-0-02	2019-01-31	0.083	0	0	0	0
idu-0-0-04	idu-0-0-03	2019-01-31	0.083	0	0	0	0
idu-0-0-05	idu-0-0-04	2019-01-31	0.083	0.083	0	0	0
idu-0-0-06	idu-0-0-05	2019-01-31	0.083	0	0	0.083	0
idu-0-0-07	idu-0-0-06	2019-01-31	0.083	0	0	0.083	0
idu-0-1-08	idu-0-0-07	2019-01-31	0.083	0	0	0.083	0
idu-0-1-09	144 0 4 00	2010 01 01	0.000	0	0	0.000	0
🗹 Add Dev.						Email	Export

6.2 Running Record

The running record also needs to satisfy two conditions before the query is implemented. The operating procedures and query method are similar to 6.1.2 Operating Duration.

Devices(62)	2019-01-01 🔤 ~	2019-01-31	1111 ^{**}	Query				
idu-0-0-00	Operating Duration	Name	ID	Туре	Group NO.	Mode	Setpoint	C Setpoin
idu-0-0-01	2019/01/31 16:33:45	idu-0-0-00	0-0	0	0	OFF		-
idu-0-0-02	2019/01/31 16:12:06	idu-0-0-00	0-0	0	0	OFF		_
idu-0-0-03	2019/01/31 03:23:54	idu-0-0-00	0-0	0	0	OFF		-
idu-0-0-04	2019/01/31 16:33:45	idu-0-0-01	0-1	0	0	Heat	19	-
idu-0-0-05	2019/01/31 16:12:06	idu-0-0-01	0-1	0	0	Heat	19	-
idu-0-0-06	2019/01/31 03:23:54	idu-0-0-01	0-1	0	0	Heat	19	-
idu-0-0-07	2019/01/31 16:33:45	idu-0-0-02	0-2	0	0	Dry	19	-
idu-0-1-08 idu-0-1-09	2019/01/31 16:12:06	idu-0-0-02	0-2	0	0	Dry	19	-
Add Dev.	First	revious 1	/5	Next	Last	Er	mail	Export

6.3 Energy Statistics

The method to query energy statistics is similar to that for the previous two functions. However, in the coordinate mode, you can only add up to three devices to search. There are no restrictions in the table mode.

Use 🛄 💿 🧮 at the top right corner to select the different modes. The selected mode is blue. The three modes are histogram, line graph and table respectively.

6.3.1 List View

Devices(3)	2018-01-10 🚞	~ 2018-01-10 🛅	Query		🔟 🕑 🗄
idu-2-0-55	Name	ID	IDU Operating Power	IDU Standby Power	Total IDU Cos
idu-2-0-54	idu-2-0-55	2-55	0	0	0
idu-2-0-53	idu-2-0-54	2-54	0	0	0
	idu-2-0-53	2-53	0	0	0



6.3.2 Histogram and Graph



Line Chart



Histogram

For histograms and graphs, you can only select three objects, and select either IDU or refrigerant system. The selected time for graphs and lists is based on the month (effective graph is based on day). There are only two options in total energy: total energy, and operating energy.

In the graphs, histograms and tables, the optional parameters are "Total Energy" and "Operating Energy".

No.	Operating Energy	Total Energy
IDU	Operating Electricity	Operating electricity + standby power
ODU	Operating Electricity	Operating electricity + standby power + exceptional energy

6.4 Log

```
Тар
```

at the lower-left corner of the Home Page to go to the log page.

Time	Func.	Detail	Туре	Device name	Username
2018/01/05 19:11:11	Login	Login			admin
2018/01/05 19:21:24	Login	Login			admin
2018/01/05 19:29:20	Login	Logout			admin
2018/01/05 19:29:54	Login	Login			admin
2018/01/05 19:30:05	Schedule	ON/OFF:On,Mode:Cool,Setpoint:20°C,Fan:1	IDU	64PCs(idu-2-0-0,idu-2-0-1,idu-2-0	admin
2018/01/05 19:47:23	Login	Login			admin
2018/01/05 19:51:18	Login	Login			admin
2018/01/05 20:28:08	Login	Login			admin
2018/01/05 20:29:20	Login	Login			normal
2018/01/05 20:35:36	Control	ON/OFF:On,Mode:Cool,Setpoint:26°C,Fan:Auto,Swing:A uto	IDU	1PCS(idu-2-0-0)	normal
2018/01/05 20:35:39	Control	ON/OFF:On,Mode:Cool,Setpoint:26°C,Fan:Auto,Swing:A uto	IDU	1PCS(idu-2-0-16)	normal
2018-01-05	~ 201	8-01-05			Query
.					20:

Certain operations of the software are recorded in logs, and these are classified into the following categories:

General control command

ECO control command

Schedule control command

Login and logout

Select the start time and end time at the lower-left corner. Tap "Query" to display the log contents within this statistic compilation period.

Note:

When you switch the language, the language used to record the data in the schedule is not refreshed, and the log record is based on the data language at the time of creation.

6.5 Export Function

For Operating Duration, Running Record, and Energy Statistics reports, there are functions to export the queries records to .csv files (except for histograms and graphs). The contents of the exported files are consistent with the current results of the queries. The format of the file is .csv, and it can be viewed and edited with Excel. Naming convention of the exported file is:

Operating Duration: running_timestamp.csv;

Running Record: record_timestamp.csv;

Energy Statistics: energy_timestamp.csv.

Devices(21)	2018-01-05 🔤 ~ 2018-01-	-05 📄 Query		
idu-2-0-50	Operating Duration	Name	Туре	Gro
idu-2-0-49	2018/01/05 19:15:55	idu-2-0-23	1	
idu-2-0-48	2018/01/05 19:14:24	idu-2-0-5	1	
idu-2-0-23	2018/01/05 19:14:24	idu-2-0-4	1	
idu-2-0-5	2018/01/05 19:14:24	idu-2-0-3	1	
idu-2-0-4	2018/01/05 19:14:50	idu-2-0-15	1	
idu-2-0-3	2018/01/05 19:14:50	idu-2-0-14	1	
idu-2-0-15			1	
idu-2-0-14	2018/01/05 19:14:50	idu-2-0-13	1	
idu-2-0-13	2018/01/05 19:14:50	idu-2-0-12	1	
Add Dev.			Email	Export

The export target is the default download path for the current browser.

			Eco			
	IDU				ODU	
Floor 1	SE ALL NO C		cel			
O Room 101	08	0 0 a - 4	0080		0080	0080
O Room 102	Cool S	Cool	*Heat	#Heat	*Heat	#Heat
0 Floor 2	27.5°C	27.5°C	27.5°	27.5°C	27.5°C	27.5°
O Floor 3	Rt 25 [%] idu-2-0-0	Rt 25 ⁴ idu-2-0-1	Rt 25 ^{°C} idu-2-0-10	Rt 25 [%] idu-2-0-11	Rt 25% idu-2-0-12	Rt 25 ⁴⁵ idu 2-0-13
Ungrouped	0040	0080	0080	0080	0080	0080
ungrouped	#Heat	*Host	#Heat	#Heat	#reat	#Heat
	27.5℃	27.5°C	27.5°C	27.5°	27.5°C	27.5°C
	Rt 25 ⁴²	RIZE	Rt 25%	RL25 ^{°C}	Rt 25 ^{°C}	Rt.25*C
	idu-2-0-14	idu-2-0-15	idu-2-0-16	idu-2-0-17	idu-2-0-18	ide-2-0-19
	O à	0 â C	0080	0 8	0 â	0 â
	Cost Cost	#Heat	#Heat	Cool Cool	Cool Cool	· +fan
	27.5°°	27.5°C	27.5°C	27.5°C	27.5°C	c
	Rt 25 ^{°C}	Rt 25 ^{°C}	1000	Rt.25*C	Rt.25*C	Rt -25 ¹⁰

The ECO page has two parameters: IDU and ODU. IDU:

The user groups are on the left, which is similar to the device monitor page, except that the control commands are different.

O 1 IDU HTHM FAPU HRV AHU O 2 ON/OFF limit Unor C setpoint limit H setpoint limit WDC limit	Mode limit	
Cancel	Apply	

Certain indoor units may not support one or more locks described above. All parameters are "-" by default which means that no command is sent.

*Certain indoor unit models may not support all the lock functions mentioned above. Please consult the factory engineer on details regarding the different lock functions supported by different IDU models.

*Certain wired controllers may contain a "remote control/wired control, choose 1 of 2" function. This function is not related to the remote-lock in the IMMP-BAC(A) (K05.2-BACNET(A)), and they are independent.

ODU:

Outdoor unit page directly displays ODU objects.

		E	ico	
ÿ⊟ /	Silence Mode		Power Restriction Mode	
Amb			T OWER RESULTION MODE	Temp
1	Mode Priority		Auto Energy Saving	°c
ID				¥ 8
IDI odi				-24
Amb				
AIND				
4				
ID) odi				
		Cancel	Apply	
			*	

Certain outdoor units may not support one or more lock commands described above. The IMMP-BAC(A) (K05.2-BACNET(A)) can send any lock command to the outdoor unit. If the outdoor unit does not support the lock command, the outdoor unit will process the command based on its own logic. For details on the different lock functions supported by different outdoor units, refer to the function manual of the corresponding outdoor unit.

All parameters are "-" by default which means that no command is sent.

Definition	ODU Parameter	CCM-270B/WS Options
Silence Mode	0:Night silent time is 6h/10h (default)	8
	1:Night silent time is 6h/12h	9
	2:Night silent time is 8h/10h	10
	3:Night silent time is 8h/12h	11
	4:No silent mode	0
	5:Silent mode 1(only limit max. fan speed)	1
	6:Silent mode 2(only limit max. fan speed)	2
	7:Silent mode 3(only limit max. fan speed)	3
	8:Super silent mode 1(limit max. fan speedand compressor frequency)	4
	9:Super silent mode 2(limit max. fan speedand compressor frequency)	5
	A:Super silent mode 3(limit max. fan speedand compressor frequency)	6
	B:Super silent mode 4(limit max. fan speed and compressor frequency)	7
	F:Set silent mode via centralized controller (To use the software settings, the corresponding function dial code must be configured in the outdoor units)	
Mode Priority	000:Auto priority (default)	Auto Priority
	001:Cooling priority	Cool Priority
	010:VIPpriority or voting priority	VIP
	011:Heating only	Heat Only
	100:Cooling only	Cool Only
	111: Set priority mode via centralized controller(To use the software settings, the corresponding function dial code must be configured in the outdoor units)	- (Message is 15. This parameter is not modified)
Power Restriction	n41: Power limitation mode 1(Only available for the master unit, 100% capacity output)	Speed 0
Mode	n42: Power limitation mode2(Only available for the master unit, 90% capacity output)	Speed 1
	n43: Power limitation mode3(Only available for the master unit, 80% capacity output)	Speed 2
	n44: Power limitation mode4(Only available for the master unit, 70% capacity output)	Speed 3
	n45: Power limitation mode5(Only available for the master unit, 60% capacity output)	Speed 4
	n46: Power limitation mode6Only available for the master unit, 50% capacity output	Speed 5
	n47: Power limitation mode7(Only available for the master unit, 40% capacity output)	Speed 6
Auto Energy Saving	nb3: Exit auto power save mode	ON
Ŭ	nb4: Enter auto power save mode	Off

8 Install

Under "Install", perform operations like device search, group edit, and name change when you use 10.1 for the first time.

8.1 Edit

Edit the name, model, fan power, auxiliary heating power (other parameters cannot be modified) of the indoor and outdoor units. Tap "Save" to save the edits.

			Install			
	Auto topo			Ма	nual topo	
Bus	System	Addr.	Туре	Name	Fan(W)	EH(W)
Bus0 (0)	0	0	1	idu-2-0-0	0	0
Bus1 (0)	0	1	2	idu-2-0-1	0	0
Bus2 (96)	0	2	2	idu-2-0-2	0	0
Bus3 (0)	0	3	2	idu-2-0-3	0	0
			I due	l du	IO	
q W	e r	4 5 t	y u		9 O	p 🗠
a s	d	f g	h	j	k I	Go
↔ z	x c	v	b	n m	!	? 🌣
?123	1				,	. 🙂

Note:

The acceptable range for the model is an integer from 0 to 12, and the model corresponds to the unit number in the device monitor.

The maximum values of the fan power and the auxiliary heating power must not exceed 65535, and must not be negative values.

The device name length cannot exceed 12 characters. Otherwise, you will receive a prompt that the name is ineligible. The device name cannot be duplicated.

8.2 Group

Tap Group at the lower-left corner to go to the group editor from the installation page.

	Install		
Group	G1 (3 units)	Ungrouped (7 units)	
Floor 1(16)	🔆 Heat 🔅 Heat	🔆 Heat 🗱 Cool 🎆 Cool	😽 Fan
Room 101(10)			
Room 102(6)	idu-2-0-18 idu-2-0-17 idu-2-0-16	idu-2-0-23 idu-2-0-3 idu-2-0-4	idu-2-0-49
G1(3)		🍀 Cool 🌱 😽 Fan 🌱 😽 Fan	
G2(3)		idu-2-0-53 idu-2-0-54	
➡ Floor 2(6)			
➡ Floor 3(35)			
	Delete	Select All	∢ Add
🖍 Edit	Sa	ave	
♠ == ♠			

Group creation is on the left.

🔎 Edit

When a group is selected, the group and the indoor units in that group are shown in the middle. Indoor units that have not been grouped are shown on the left.

8.2.1 Create, Edit, and Delete Group

Тар

at the lower-left corner to go to the pages to create, edit and delete

group.

The CCM-270B/WS supports three group levels.

	Install					
Level 1	Level 2	Level 3				
Floor 1	Room 101	G1				
Floor 2	Room 102	G2				
Floor 3						
Add	🔂 Add	G Add				
Save						
		20:49				

Tap the back key at lower-left corner to return to the group page.

8.2.1.1 Create Group

Tap • Add , and you will get a text box for you to edit the group at the corresponding level, and the mouse is active.

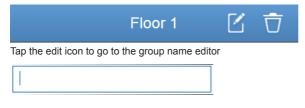


Enter the name. Tap the CR ("Go") key on the keyboard, or tap in the blank space to exit the editor. Groups at the same level cannot have the same names.

A group name may include up to 12 characters. You will receive a prompt during "Save" if the name exceeds 12 characters.

8.2.1.2 Edit, Delete Group

When a group is selected, you will see the edit and delete function keys for the selected group.



Tap "Delete" to delete the group.

Note: Make sure you tap "Save" at the bottom of the page to save all create and edit operations. Otherwise, the changes will be discarded.

8.3 Add indoor unit to group

In the group page, you can add and delete the indoor units in the group.

Group	G1 (3 units)	Ungrouped (7 units)	1111
 Floor 1(16) Room 101(10) 	🔆 Heat 🌞 Heat		Cool 5 Fan
Room 102(6)	idu-2-0-18 idu-2-0-17 idu-2-0-16	idu-2-0-23 idu-2-0-3 idu	idu-2-0-49
		🋞 Cool 💙 🚸 Fan 💙 🚸	
G2(3)			-2-0-54
Floor 2(6)			
 Floor 3(35) 			
		Delete> Select All	4Add
🖉 Edit		Save	

Select the indoor unit you need to operate from the group list on the left. Tap	Add	to add
the indoor unit to the corresponding group.		2



If the selected group has subgroups, they are displayed as follows:

	Install		
Group	Room 201 (3 units)	Ungrouped (30 units)	III N
Floor 1(0)	G1(0)	idu-2-0-0 idu-2-0-10 idu-2-0-11	idu-2-0-12
Floor 2(0)	G2(0)	🔆 Heat 🔅 Heat	🔆 Heat
Room 201(0)	🔆 Heat 🔅 Heat		
G1(0)		idu-2-0-15 idu-2-0-16 idu-2-0-17	idu-2-0-18
G2(0)	idu-2-0-14 idu-2-0-13 idu-2-0-1	🔆 Heat 🛞 Cool 🔅 Heat	🔅 Heat
Room 202(0)		idu-2-0-19 idu-2-0-20	idu-2-0-21
 Floor 3(0) 		🌞 Heat 🛛 🔅 Heat 💧 Dry	🛞 Cool
		idu-2-0-22 idu-2-0-23 idu-2-0-24	idu-2-0-3
	Delete	Select All	4 Add
🖍 Edit	s	ave	
			21:19

In the middle area, select the indoor unit to be deleted, tap Deleter to remove the indoor unit from the corresponding group.

Note: Once the edits to the indoor units in the group have been completed, tap (at the bottom of page) to save the changes. If the changes have not been saved and you directly switch to other groups, you will receive the following prompt, "Changes have not been saved. Save the changes?"

9 Settinghh



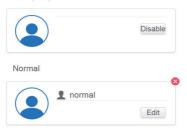
on the Home Page to go to the Settings page. Default is the General module.

	Settings	
Account	Reboot	0
I 💓 Date	Factory data reset	
I 📅 Holiday I I 📀 General	Machine Code	0
I @ Mail	Cooling only system	
Advanced	Version	V20200617
Public Device		1
I ⋈ ECS		
		4:48 PM
1	2	

No.	Functions
1	List of available functions in the settings page. Tap to jump to the corresponding tab.
2	Shows details of the different tabs.

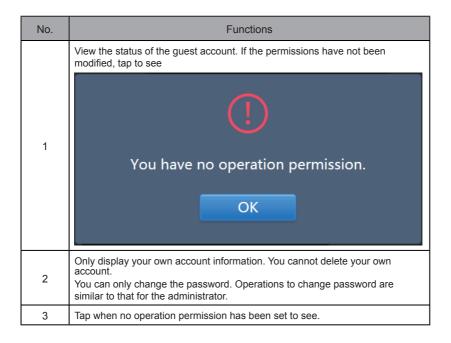
9.1 Account

Anonymity



🔂 Add

Normal user page





Default is maximum 15 characters for account name and password. Default account is "normal", password "123456";

9.2 Date

Tap the list to go to the **vert** tab to set the date and time as shown in Figure 9.2.1. Default is the No Edit page. View the current date and time. Use "**v**" and "**v**" or any grey numbers that do not belong to this month to jump to another month. Tap to check the blue icon on the left of "Modify date and time" to enter the Edit mode as shown in Figure 9.2.2.

24-Hour											
 Modify 	date a	nd tin	ne								
		2018-01-05						21	:	16	
		J	anu	iary 2	2018	3	Þ				
	Sun	Mon	Tue	Wed	Thu	Fri	Sat			12 /	
	31	1	2	3	4	5	6		9	3	
	7	8	9	10	11	12	13		-		
	14	15	16	17	18	19	20			′ 6 `	
	21	22	23	24	25	26	27				
	28	29	30	31	1	2	3				
	4	5	6	7	8	9	10				

Figure 9.2.1 No Edit mode

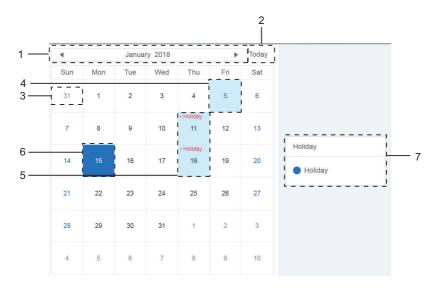
1 —	24-Hour								0	
2 —	- 🔗 Modify	date a	and tir	ne				Syno	Save	3
4 —				201	9-01	-31	ר – ו 		03▼ : 20▼ AM▼	5
	ĺ	4	J	anu	ary 2	2019		•		8
	i I	Sun	Mon	Tue	Wed	Thu	Fri	Sat	, 12 /	
6 —		30	31 7	1	2	3	4	5	9 3 3	7
	1	6 13	7 14	8 15	9 16	10 17	11 18	12 19		
	i	20	21	22	23	24	25	26	6	
	1	27	28	29	30	31	1	2	1	
	I	3	4	5	6	7	8	9		

Figure 9.2.2 Edit mode

No.	Functions
1	Use to switch between 24-hour and 12-hour clock system. You can adjust the system timing system in both Edit and No Edit modes. When the slider is white and inactive, slide to the left, and the slider becomes blue and active, and the system switches to the 24-hour clock system. When the slider is active, slide to the right and the slider is now inactive, and system switches to a 12-hour clock system.
2	Tap the blue icon on the left side of "Modify date and time". Once this icon is checked, Edit mode is on. Tap again to uncheck the icon to exit the Edit mode, and all changes will be discarded.
3	Appears only when Edit is on to save the changes to the date and time. Tap to save the result and exit the Edit mode.
4	Displays the current system date when Edit is off. Displays the date selected when Edit is on.
5	Displays the current system time in the No Edit mode. Tap "▼" when Edit is on to activate the number selection list to adjust the time. Scroll the list to select the desired time, and close the list.
6	Displays dates in a calendar format with a solid box to frame today₂s date. Tap the grey numbers or "◀" and "▶" to change the month. When Edit is off, you can only view the calendar. When Edit is on, tap on any date to select and modify the date. Selected dates have a blue background.
7	Displays the current time in the form of a clock. Clock stops when Edit is on. Automatically skip to the modified time once the modified time is saved.
8	Sync (this function is available only on the WEB interface): Tap this button to synchronize the time with that of the connected PC (or an equivalent terminal).

Note: When CCM-270B/WA is powered off and powered on again, the time of CCM-270B/WA needs to be calibrated first.

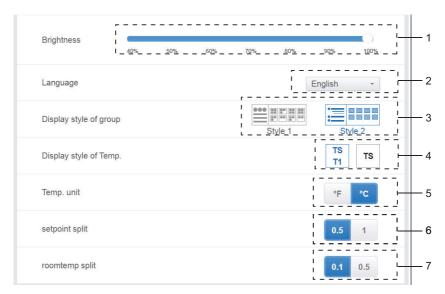
9.3 Holiday Settings



No.	Functions
1	Displays current year and month. Tap "◄" and "▶" to change the month.
2	Shortcut to return to the current system date. Tap to activate it immediately.
3	Dates in grey do not belong to the current displayed month. Tap to jump to the date that the grey number belongs to and select the date.
4	Light blue background colour and blue font for todays date.
5	Dates with light blue background and red text are marked as holidays.
6	Selected date has a dark blue background. Tap the dates in black or blue font to select the date.
7	Non-holidays are marked with . Holidays are marked with . Select the corresponding date to view its status. Tap the blue icon to switch the status.

9.4 General Settings

(Adjustment to screen brightness is only for the touch screen.)



General Settings

No.	Functions	
1	Adjusts the display brightness. Tap e to adjust. Slide left to reduce the brightness, and right to increase the brightness.	
2	Changes the display language. Tap to activate the drop-down box, and tap to select the desired language.	
3	Adjusts the group's display mode. Selected mode is highlighted in blue. Tap the grey icon to activate its mode. The two modes are mutually exclusive. The function targets the Group Navigation at the Device Monitor and Installation. Image on the right is related to the display of indoor units in the subgroups. Expand to display the indoor units in the subgroups on the right. Otherwise, the indoor units in the subgroups are merged into the subgroup folder and only the number of indoor units is displayed.	
4	If the indoor ambient temperature for T1 is displayed. Left is Display, right is No Display. Selected mode is highlighted in blue. Tap the grey icon to activate its mode. The two modes are mutually exclusive.	
5	Unit of temperature. Selected mode is highlighted in blue. Tap the grey icon to activate its mode. The two modes are mutually exclusive.	

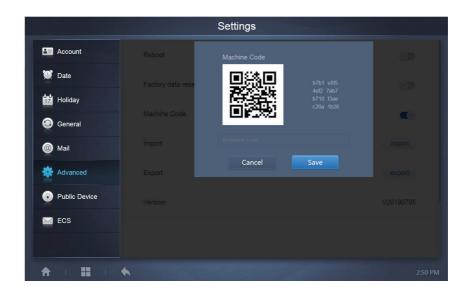
6	Set temperature, which is associated with option 5 Select °F. The set temperature interval can only be 1, which cannot be modified. Select °C. The set temperature interval can be 0.5 or 1, which are mutually exclusive.
7	Room temperature 0.1, 0.5. Only displayed under admin account and factory account. This option isnot available for normal accounts. Related to the ambient temperature analysis, see the corresponding ambient temperature analysis instructions in detail.

9.5 Advanced Settings

	Settings		
Account	Reboot	0	1
Date	Factory data reset	0	2
Holiday	Machine Code	0	3
Mail	Cooling only system		4
Advanced	Version	V20200617	5
Public Device			
ECS			
			48 PM

No.	Functions
1	Tap the slider to activate the dialog box. Tap "OK" to reboot the device. Tap "Cancel" to cancel all operations and exit.
2	Tap the slider to activate the dialog box. Tap "OK" to restore the device to factory settings (clear topology information, schedules, history, operating duration, running records, energy statistics, settings). Tap "Cancel" to cancel all operations and exit.
3	Indicates whether the power division function is enabled.
4	Cooling only system: If a cooling only system is connected, click the slider to activate this item.
5	Displays the current version of the software.

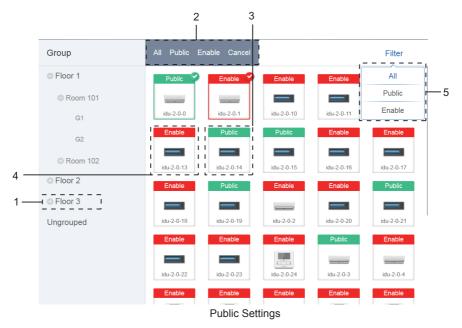
The power division function is activated. Tap it to display the machine code interface:



The activation status is as follows:

	Settings	
Account	Reboot	0
Date	Factory data reset	
Holiday	Machine Code	~
General		
Mail	Cooling only system	0
Advanced	Version	V20200617
Public Device		
ECS		
	h	4:48 PM

9.6 Public Device

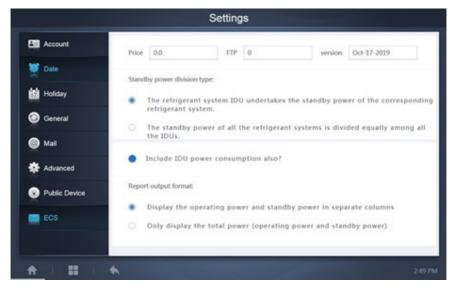


No.	Functions
1	Displays the group option. All the devices in the groups (including subgroups) are displayed on the right, and the groups are arranged based on the time of creation.
2	Changes the properties of the selected devices. Public refers to public devices. Enabled refers to devices that have been enabled. Tap to select all the devices that can be selected. Tap "Cancel" to unselect all.
3	Method to display public devices.
4	Displays enabled devices. Selected device is marked by an icon at the top right corner. P indicates enabled devices that are selected. indicates public devices that are selected.
5	Filters the devices in the group. Tap "All" to display all devices. Tap "Public" to display the public devices. Tap "Enable" to display all the enabled devices.

Note:

- 1. For those marked as Public devices, its power will shared to all enabled devices during power allocation.
- 2. Power from public devices is shared equally to other devices where fees are being charged. It does not distinguish the time settings. Once it is set as a public device, all queries will see that device as a public devices (power allocation is only effective during the query, the database records the original file, and the calculation is performed only during the query).
- 3. Devices in the wired controller group do not support this function.

9.7 ECS



10APPENDIX

10.1 Table of Error Codes

This manual is intended for reference only, refer to the error shown on the actual device for troubleshooting.

Please consult the factory engineer to check if the error code of the specific model belongs to a "new generation of refrigerant system".

Error code ¹	Content
E0	Communication error between outdoor units
E1	Phase sequence error
E2	Communication error between indoor and master unit
E4	Outdoor heat exchanger temperature sensor (T3) error or outdoor ambient temperature sensor (T4) error
E5	Abnormal power supply voltage
E7	Compressor top or discharge pipe temperature sensor (T7C1/2) error
E8	Outdoor unit address error

Table of Error Codes for V6/V6i/VX/VXi Outdoor Unit:

Error code ¹	Content	
xE9	EEPROM mismatch	
xF1	DC bus voltage error	
F3	Plate heat exchanger cooling refrigerant outlet temperature sensor (T6B) error	
F5	Plate heat exchanger cooling refrigerant inlet temperature sensor (T6A) error	
F6	Electronic expansion valve connection error	
xH0	Communication error between main control chip and inverter driver chip	
H2	Number of slave units detected by master unit has decreased	
H3	Number of slave units detected by master unit has increased	
xH4	Inverter module protection	
H5	P2 protection appears three times in 60 minutes	
H6	P4 protection appears three times in 100 minutes	
H7	Number of indoor units detected by master unit not same as number set on main PCB	
H8	High pressure sensor error	
H9	P9 protection appears ten times in 120 minutes	
yHd	Slave unit malfunction	
C7	PL protection appears three times in 100 minutes	
P1	Discharge pipe high pressure protection	
P2	Suction pipe low pressure protection	
xP3	Compressor current protection	
P4	Discharge temperature protection	
P5	Outdoor heat exchanger temperature protection	
P9	Fan module protection	
PL	Inverter module temperature protection	
PP	Compressor discharge insufficient superheat protection	
xL0	Inverter module protection	
xL1	DC bus low voltage protection	

Error code ¹	Content
xL2	DC bus high voltage protection
xL4	MCE error
xL5	Zero speed protection
xL7	Phase sequence error
xL8	Compressor frequency variation greater than 15Hz within one second protection
xL9	Actual compressor frequency differs from target frequency by more than 15Hz protection

Notes:

- 1. 'x' is a placeholder for the compressor system (compressor and related electrical components), with 1 representing compressor system A and 2 representing compressor system B. 'y' is a placeholder for the address (1 or 2) of the slave unit with the error.
- 2. For some error codes, a manual restart is required before the system can resume operation.
- 3. Once the EXV has been connected properly, the error code will flash to indicate that the connection has been re-established. A manual restart is then required before the system can resume operation.

Table of Error Codes for Indoor Units

Error code	Content
E0	Mode conflict
E1	Communication error between indoor and outdoor units
E2	Indoor ambient temperature sensor error
E3	Indoor heat exchanger mid-point temperature sensor error
E4	Indoor heat exchanger outlet temperature sensor error
E6	Fan error
E7	EEPROM mismatch
Ed	Outdoor unit error
EE	Water level error
FE	Indoor unit has not been assigned an address

Table of Error Codes for HTHM

Error code	Content
EE	EEPROM error
FE	No address error
C7	Inverter module temperature protection
E9	EEPROM mismatch
H4	Inverter module protection
H5	P2 protection appears three times in 60 minutes
H6	P4 protection appears three times in 100 minutes
1F6	Electronic expansion valve 1 connection error
2F6	Electronic expansion valve 2 connection error
E1	Communication error between hydro box and wired controller
E8	Water flow failure
F3	Water outlet temperature sensor error
F9	Water inlet temperature sensor error
F5	Tank temperature sensor error
E7	Discharge pipe temperature sensor error
FA	Suction pipe temperature sensor error
Fb	NTC temperature sensor error
FC	R410a circle liquid pipe temperature sensor error
Fd	R134a circle liquid pipe temperature sensor error
F8	Room temperature sensor error
H8	High pressure sensor error
Hb	Low pressure sensor error
E2	Communication error between hydro box and outdoor unit
H0	Communication error between main PCB and inverter driver PCB
E0	Communication error between master hydro box and slave hydro box
Ed	Outdoor unit error
E5	Abnormal power supply voltage
PP	Compressor discharge insufficient superheat protection
P1	Discharge pipe high pressure protection

Error code	Content
P2	Suction pipe low pressure protection
P3	Compressor current protection
P4	Discharge temperature protection
PL	Inverter module temperature protection
F1	DC bus voltage error
LO	Inverter module protection
L1	DC bus low voltage protection
L2	DC bus high voltage protection
L4	MCE error
L5	Zero speed protection
L7	Phase sequence error
L8	Compressor frequency variation greater than 15Hz within one second protection
L9	Actual compressor frequency differs from target frequency by more than 15Hz protection

10.2 Software Use Precautions

- a) If there are display errors on the web page such as header errors and wrong icon placements, use the browser>s mandatory refresh function to refresh the page (such as "Shift+F5" for the Chrome browser).
- b) You can only enter English characters on the touch-screen. Use the Web page if you need to use other language and characters.

10.3 Wired Controller Group

For the new units, certain wired controllers support the access of multiple indoor units (IDU) where these IDUs will then form a "wired controller group". In IMMPro, these IDUs will be treated as a single virtual IDU, and in the icon view in "Device Monitor" the wired controller group of IDUs will have its own icon. The name of the wired controller group is the same as the name of the smallest IDU. Note: Refer to the relevant manuals on wired controllers, and indoor units for specific information on how to set the address of the wires controller group.

	IDUs in wired controller group
"Device monitor" icon view	When one or more IDUs are offline in the wired controller group, the wired controller group icon will display an offline status. When there are errors in one or more IDUs in the wired controller group, the wired controller group icon will display an error status, and the error code will be the error code in the IDU with the smallest address. When the wired controller group is normal, the wired controller group icon will show the operating state of the smallest IDU.
"Device monitoring" list view	In a list view, each IDU in the group is displayed on a separate line, and you can view the details of each IDU in the group.
"Statistical data", "Energy statistics"	Each IDU in the group is displayed on a separate line, and you can view the statistics of each IDU in the group.
Send control command	The same commands are sent to the wired controllers in the group.

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