

OPERATION AND INSTALLATION MANUAL

IMMP-BAC

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

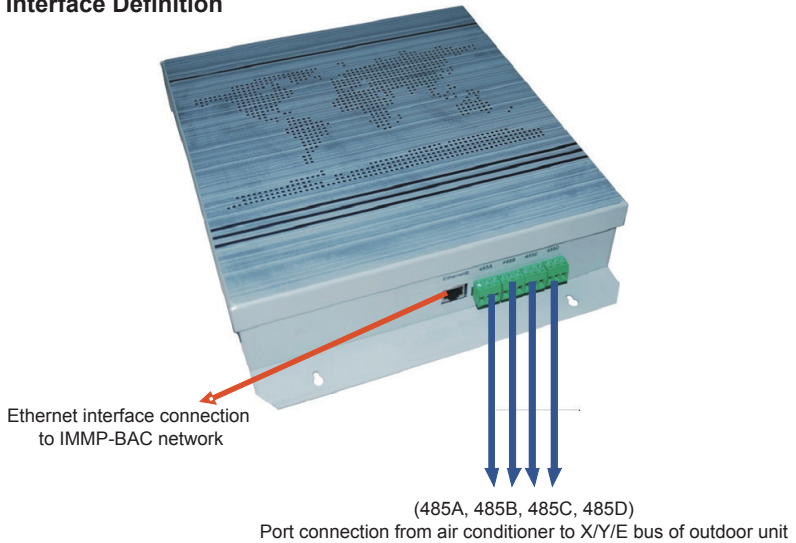
Contents

PART 1.	FUNCTION OVERVIEW	1
1.1	Connection Indication	1
1.1.1	Interface Definition	1
1.1.2	System Connection Diagram	1
1.2	Product Description	2
1.2.1	Device Monitor	2
1.2.2	Supported Models	2
1.2.3	Based on Web Technologies	2
PART 2.	IMMP-BAC FUNCTIONS SECTION	3
2.1	Applications	3
2.2	Features	3
2.3	Specifications	3
2.4	Statement on Conformity of BACnet Protocol Implementation	3
2.4.1	Product Description	3
2.4.2	Supported BACnet Consistency Categories	4
2.4.3	Supported BACnet Function Groups	4
2.4.4	Supported BACnet Protocol Application Services	4
2.4.5	Supported protocol Object Categories	5
2.4.6	Data Link Layer Options	6
2.4.7	Supported Character Sets	6
2.4.8	Special Functions	6
2.5	Interface Definition	6
2.6	Configuration Instructions	7
2.6.1	Time and Date Settings	7
2.6.2	Safety Settings	7
2.6.3	Network Settings	7
2.6.4	BACnet Settings	7
2.6.5	Resetting the IP address	8
2.7	Object List	8
2.7.1	BACnet Objects for Indoor Units	9
2.7.2	Object List for Outdoor Units	11
2.7.3	Error Code	12
PART 3.	IMMP-BAC SECTION	13
3.1	Function Details	13
3.1.1	Login	13
3.1.2	Home Page	14
3.1.3	Control	16
3.1.4	Schedule	22
3.1.5	Report	34
3.1.6	Eco	41
3.1.7	Install	46
3.1.8	Setting	50
3.2	APPENDIX	60
3.2.1	Table of Error Codes	60
3.2.2	Software Use Precautions	67
3.2.3	Wired Controller Group	67

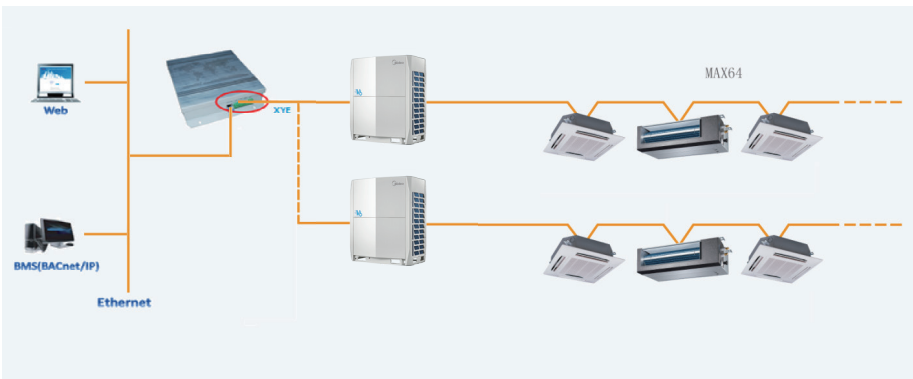
PART 1. FUNCTION OVERVIEW

1.1 Connection Indication

1.1.1 Interface Definition



1.1.2 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.

PART 1. FUNCTION OVERVIEW

1.2 Product Description

Every main wire in this device can connect with a maximum of 64 indoor and 24 outdoor units. The device features 4 main wires and can connect with a total of 256 indoor and outdoor units. It features a built-in IMMP-BAC function module and IMMPRO gateway function module. The gateway can be used with Intelligent Manager of Midea Pro (IMMPRO) to enable the power billing function. The VRF system and building management system are also integrated.

1.2.1 Device Monitor

- 1) 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 Intelligent Manager of Midea Pro (IMMPPro) 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.

1.2.2 Supported Models

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

1.2.3 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 function.
- 2) 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. IMMP-BAC FUNCTIONS SECTION

2.1 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.

2.2 Features

- Connect the VRF system to the BACnet network.
- Support IMMP-BAC 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 256 at most.
- Plug-in terminal interface is used to facilitate the wiring.

2.3 Specifications

No.	Function	Description
1	Input power	100-220VAC 50/60Hz
2	Communication interface	4X RS485 interface 1X RJ45 Ethernet port Ethernet port
3	Operating environment	Temperature: 0-40°C
4	Dimensions	26cm x 25cm x 6cm
5	Weight	2.7KG

2.4 Statement on Conformity of BACnet Protocol Implementation

2.4.1 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 interface.

PART 2. IMMP-BAC FUNCTIONS SECTION

2.4.2 Supported BACnet Consistency Categories

Category 3	<input checked="" type="checkbox"/>
------------	-------------------------------------

2.4.3 Supported BACnet Function Groups

COV event initialization	<input checked="" type="checkbox"/>	Device communications	<input type="checkbox"/>
COV event response	<input type="checkbox"/>		

2.4.4 Supported BACnet Protocol Application Services

Applicable Service	Initiate a request	Execute the request
Verified COV notifications	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Reserved for COV	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-verified COV notifications	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Read attributes	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Read multiple attributes	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Write attribute	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Write multiple attributes	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Device communications and control	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Who-Has	<input type="checkbox"/>	<input checked="" type="checkbox"/>
I-Have	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Who-Is	<input type="checkbox"/>	<input checked="" type="checkbox"/>
I-Am	<input checked="" type="checkbox"/>	<input type="checkbox"/>

PART 2. IMMP-BAC FUNCTIONS SECTION

2.4.5 Supported Protocol Object Categories

Object Type	Support?	Can this be dynamically created?	Can this be dynamically deleted?	Optional attribute	Writeable attribute
Analogue input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Analogue output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Analogue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Binary input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Binary output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Binary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Multiple input status	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Multiple output status	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Multiple status values	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____

PART 2. IMMP-BAC FUNCTIONS SECTION

2.4.6 Data Link Layer Options



ISO 8802-3,10BASET

2.4.7 Supported Character Sets

Support for multiple character sets does not imply that all these character sets are supported at the same time.



ANSI X3.4

2.4.8 Special Functions

Segment request support

yes

no

Window size: **1476**

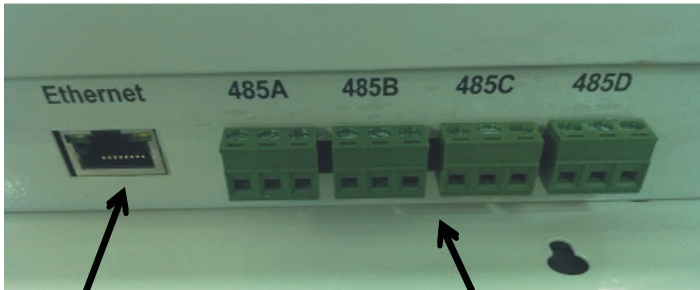
Segment response support

yes

no

Window size: **1476**

2.5 Interface Definition



Ethernet interface connection
to IMMP-BAC network

485A 485B 485C 485D air conditioning
equipment port connections to XYE
main wires on outdoor units

PART 2. IMMP-BAC FUNCTIONS SECTION



Power switch



Power Port
100-220 V AC 50/60 Hz

2.6 Configuration Instructions

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

2.6.1 Time and Date Settings

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

2.6.2 Safety Settings

You can set the admin password. The settings take effect immediately.

The admin account is "admin", and the default password is "123456".

2.6.3 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

2.6.4 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 * 10000) + (Port number * 1000) + (Indoor unit address);

BACnet device instance number for outdoor unit = (BACnet network number * 10000) + (Port number * 1000) + 100 + (Outdoor unit address)

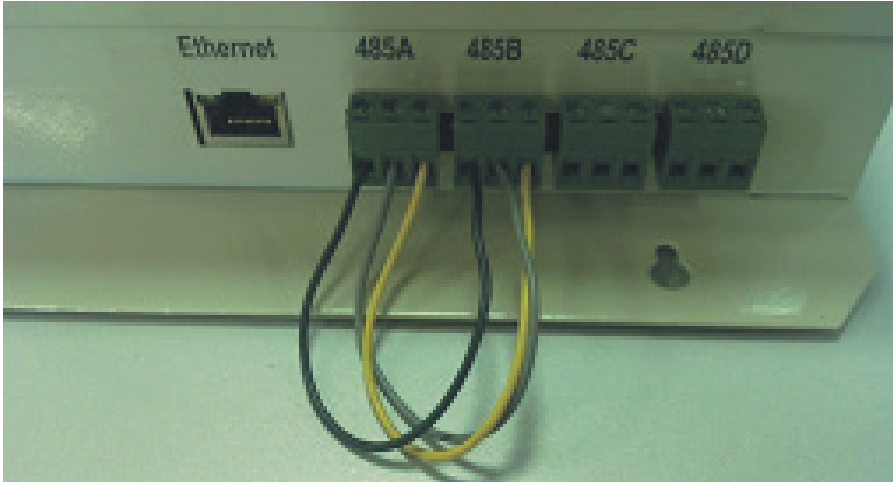
485 port number: 0~3. For the 485 port near the network port, the number is 0.

Indoor unit address: 0~63; outdoor unit address: 0~31.

PART 2. IMMP-BAC FUNCTIONS SECTION

2.6.5 Resetting the IP address

Before the device is powered on, connect ports 485A and 485B short. Then, restart the device. The IP address is reset to 192.168.1.8.



2.7 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	BO
Binary Value	BV
Multi-state Input	MI
Multi-state Output	MO
Multi-state Value	MV

PART 2. IMMP-BAC FUNCTIONS SECTION

2.7.1 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 (unit: °C)	R
AI 7	Malfunction Code	Error Code (see 4-3)	R
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 Units 0 - 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: 1 - OFF, 2 - Fan, 3 - Cool, 4 - Heat, 5 - AUTO, 6 - Dry.	RW
MV 2	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

PART 2. IMMP-BAC FUNCTIONS SECTION

Object ID	Object Name	Current Value Description	R/W
AV 1	Temperature Setting	Temperature setting, unit is °C, range is 17-30.	RW
AV 2	Dual Point (Cooling) Setting	Set cooling temperature in AUTO mode. 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.	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.	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

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.

PART 2. IMMP-BAC FUNCTIONS SECTION

2.7.2 Object List for Outdoor Units

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

Object ID	Object Name	Current Value Description/Notes	R/W
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
AI 1	Ambient Temperature	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 4-3)	R
AI 9	Fan 1 Speed	Fan speed for Fan 1	R
AI 10	Fan 2 Speed	Fan speed for Fan 2	R

R indicates that the object's current value is read-only.

PART 2. IMMP-BAC FUNCTIONS SECTION

2.7.3 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:

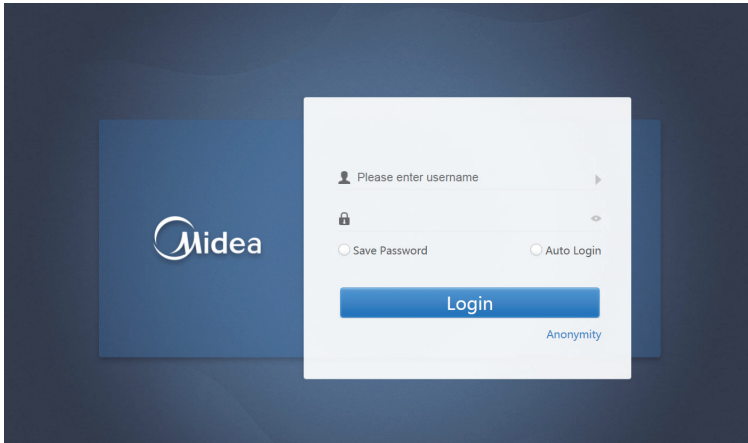
- 1) A0~AF refers to A0, A1, A2, A3, A4, A5, A6, A7, A8, A9, AA, AB, AC, AD, AE, AF, etc.
- 2) In cases where the error code displayed does not reflect the error affecting the machine, the machine's actual error should be given priority. The specific meaning of the error code is based on the interpretation of the service manual.

PART 3. IMMP-BAC SECTION

3.1 Function Details

3.1.1 Login

Certain browsers may include the functionality to save and remember the passwords.

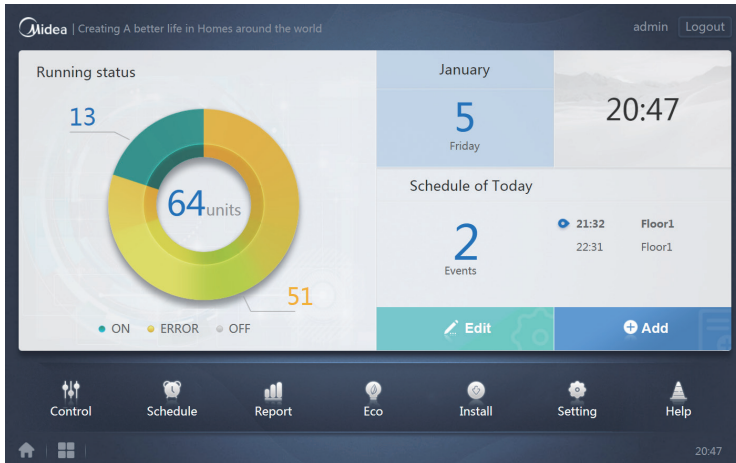


Username	<input type="text" value="Please enter username"/>
Password	<input type="password" value="*****"/> <input type="password" value="123423"/>
Save password	<input type="radio"/> Save Password <input checked="" type="radio"/> Save Password
Auto login	<input type="radio"/> Auto Login <input checked="" type="radio"/> Auto Login
Login	<input type="button" value="Login"/>
Guest login	<input type="button" value="Anonymity"/>
Default account name	normal
Initial password	1

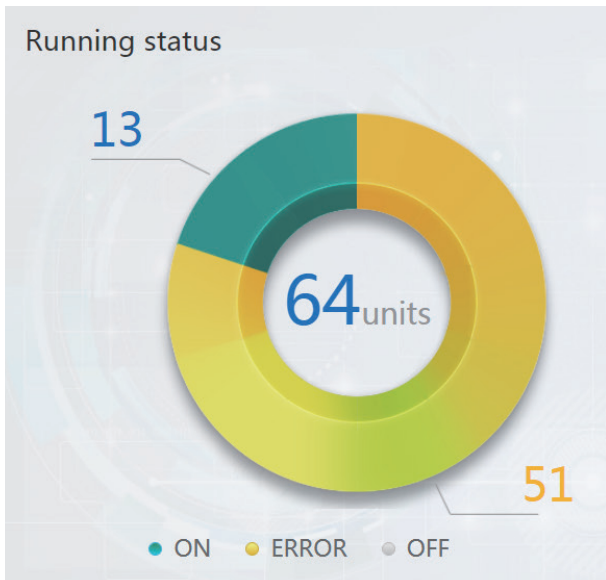
PART 3. IMMP-BAC SECTION

3.1.2 Home Page

Default software display page once you have logged in successfully:



3.1.2.1 Overview of Indoor Unit Running Status



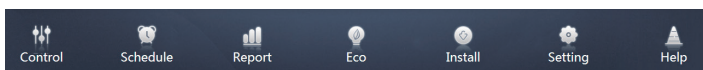
PART 3. IMMP-BAC SECTION

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

Running	
Error (Error includes error and offline)	
Standby	

Function Menu

Navigation for all the functions is available at the bottom of the home page;



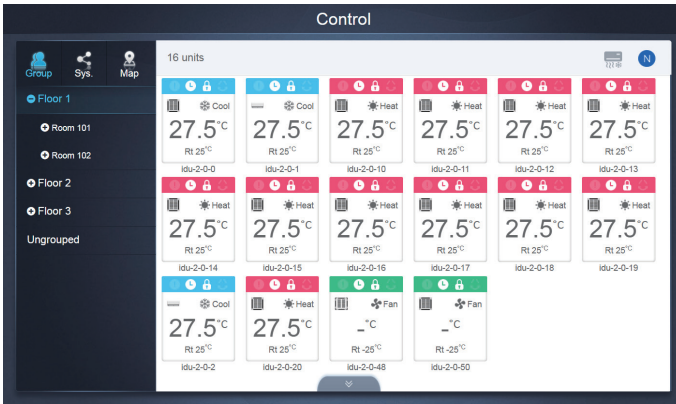
3.1.2.2 Special Menu



Function	General
Back to Home	
Operating History	

PART 3. IMMP-BAC SECTION

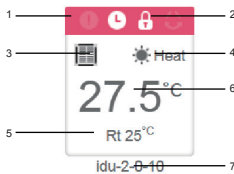
3.1.3 Control



Control

Function	Inactive	Active
Indoor Unit View - Group		
Indoor Unit View - System		





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:



PART 3. IMMP-BAC SECTION

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 "installation" page.

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

Function	Remarks	Active
	Error	White
	Schedule	White
	Lock	White
	Swing	White

PART 3. IMMP-BAC SECTION

Table: Basic Mode Images

























Off, Error, Offline (grey)	Auto (Dark blue)	Cool (Light blue)	Heat (Red)	Air supply (Green)	Dry (Orange)
					
					

Table: Model:

		Picture
0	Old IDU	
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)	

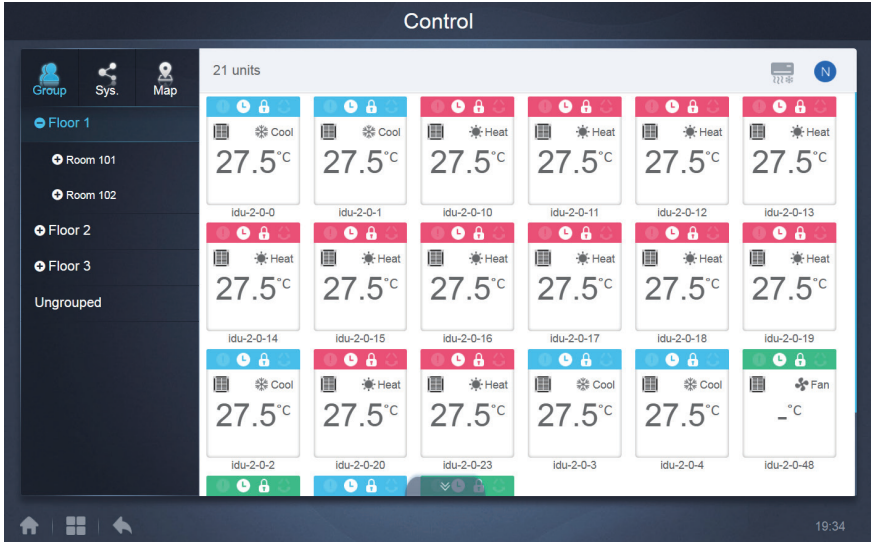
		Picture
7	Compact 4-Way Cassette (COMPACT)	
8	Ceiling & Floor	
9	Vertical Type Concealed	
10	Vertical Type Exposed	
*	Wired Controller Group *For details, refer to Appendix, "Wired Controller Group".	

PART 3. IMMP-BAC SECTION

3.1.3.1 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 Control page. Once a group is selected, the indoor units of the selected group are shown on the right.



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

3.1.3.1.1 Order of Display for Indoor Unit

Indoor units can be sorted by name or mode.

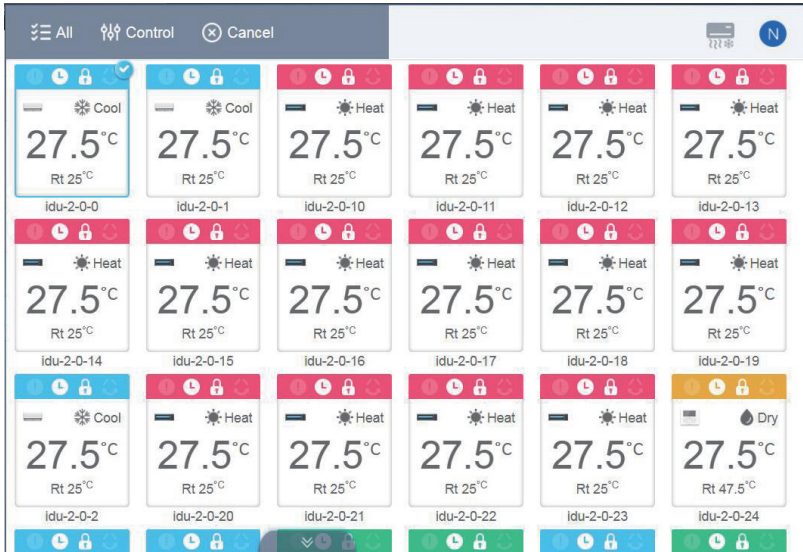
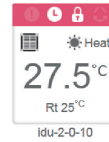
Function	Inactive	Active
Sort by mode Auto, Cool, Heat, Dry, Fan, Off, Error, Offline		
Sort by name		

PART 3. IMMP-BAC SECTION

3.1.3.1.2 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".



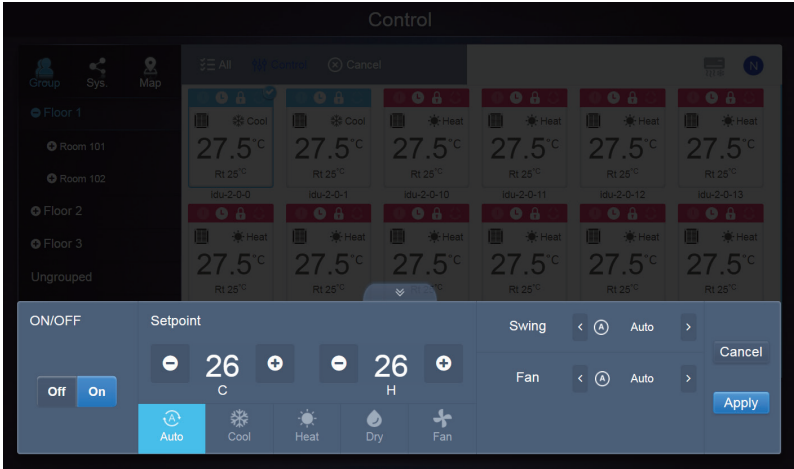
Tap to select an indoor unit, and it is now selected, tap again if you want to deselect the unit;

Tap "All" to select all the indoor units in this page.

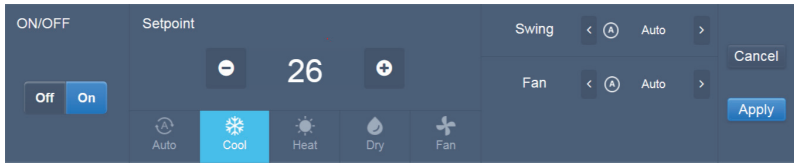
Tap "Cancel" to cancel the selection for all indoor units;

Tap "Control", and you will get the following control window:

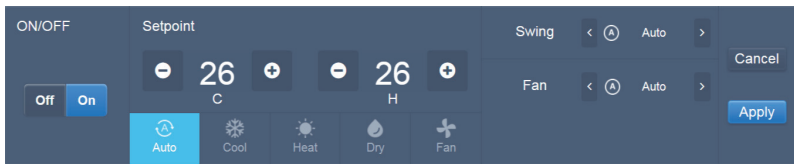
PART 3. IMMP-BAC SECTION



Non-Auto Mode



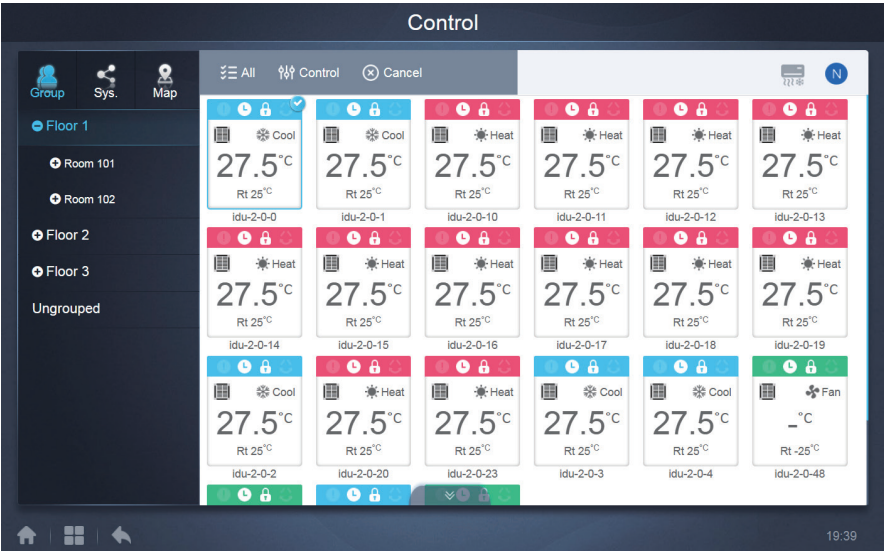
Auto Mode



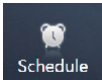
PART 3. IMMP-BAC SECTION

3.1.3.2 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.

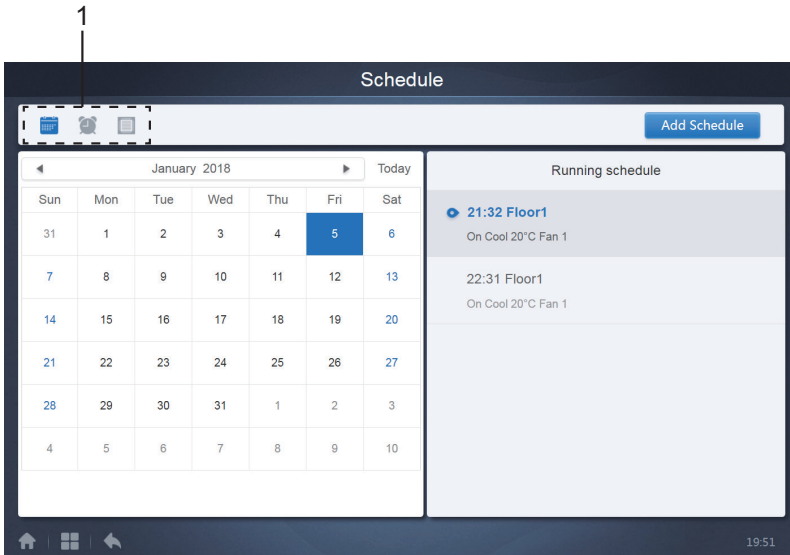


3.1.4 Schedule



Tap **Schedule** on the main page to enter the Schedule Function Module, then enter the schedule view page.

PART 3. IMMP-BAC SECTION



No.	Functions
1	<p>Here you can select the way that the schedule is displayed. From left to right, options include:</p> <ol style="list-style-type: none"> 1. Calendar View (based on dates); 2. Plan View (based on plans); 3. Device View (based on devices); <p>Tap the corresponding icon to go to the respective schedule view. Default is the calendar view.</p>

PART 3. IMMP-BAC SECTION

3.1.4.1 View Schedule

3.1.4.1.1 Calendar View

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

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


Calendar View

January 2018							Today
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
31	1	2	3	4	5	6	
7	8	9	10	11	12	13	
14	15	16	17	18	19	20	
21	22	23	24	25	26	27	
28	29	30	31	1	2	3	
4	5	6	7	8	9	10	

PART 3. IMMP-BAC SECTION

Calendar view (part)

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.

Running schedule
 21:32 Floor1 On Cool 20°C Fan 1
22:31 Floor1 On Cool 20°C Fan 1

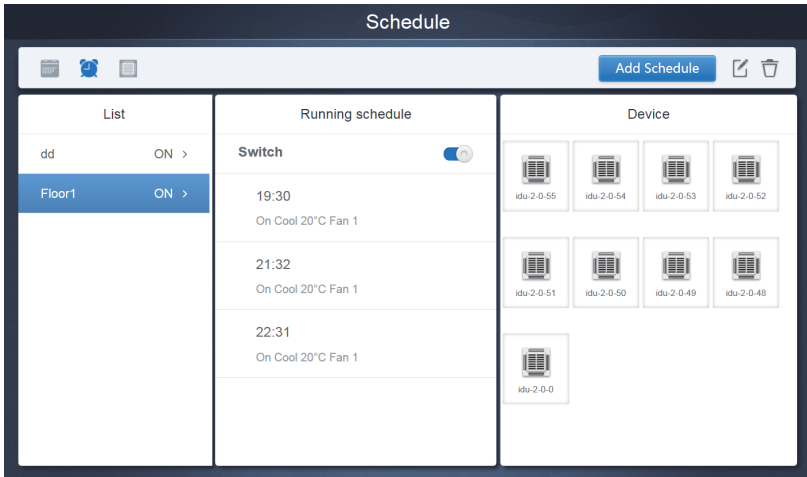
Schedule view (part)

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

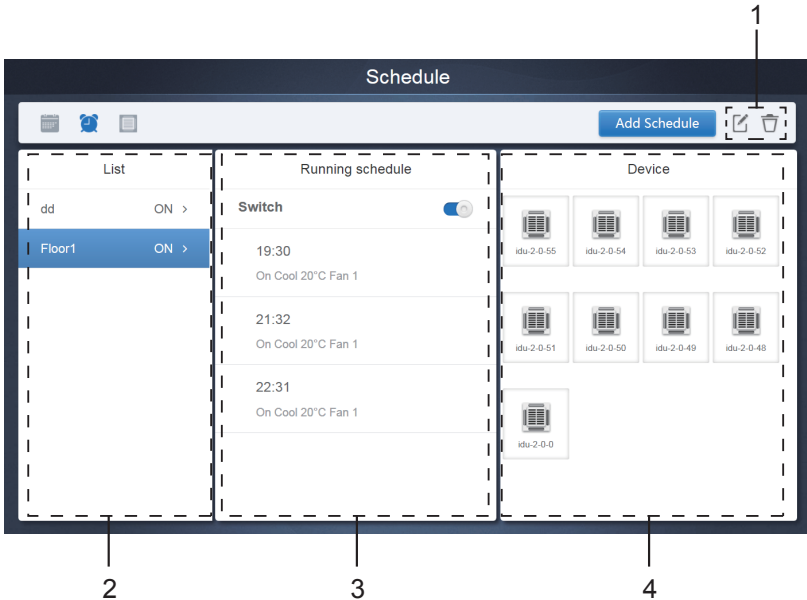
1. Time
2. Schedule name
3. Specific command contents (ON/OFF, Mode, Set Temperature, Fan Speed)

PART 3. IMMP-BAC SECTION

3.1.4.1.2 Plan View



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

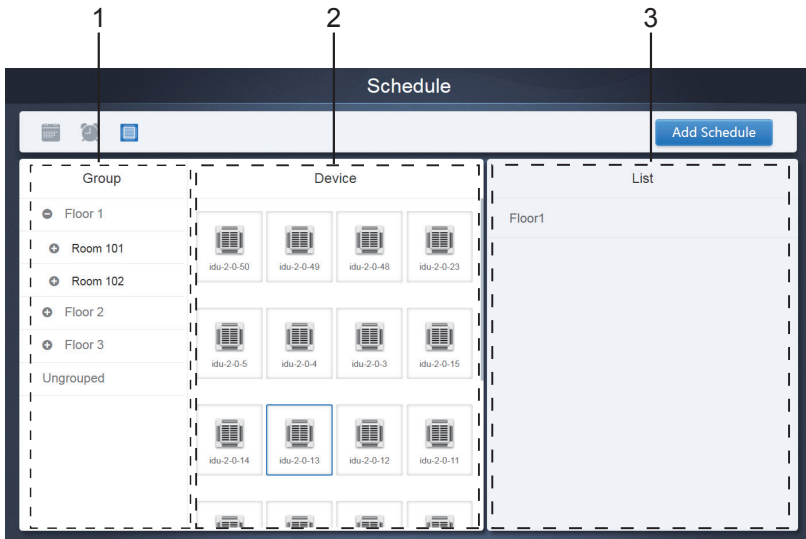


PART 3. IMMP-BAC SECTION

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.

3.1.4.1.3 Device View

Tap the third icon to go to the device view.

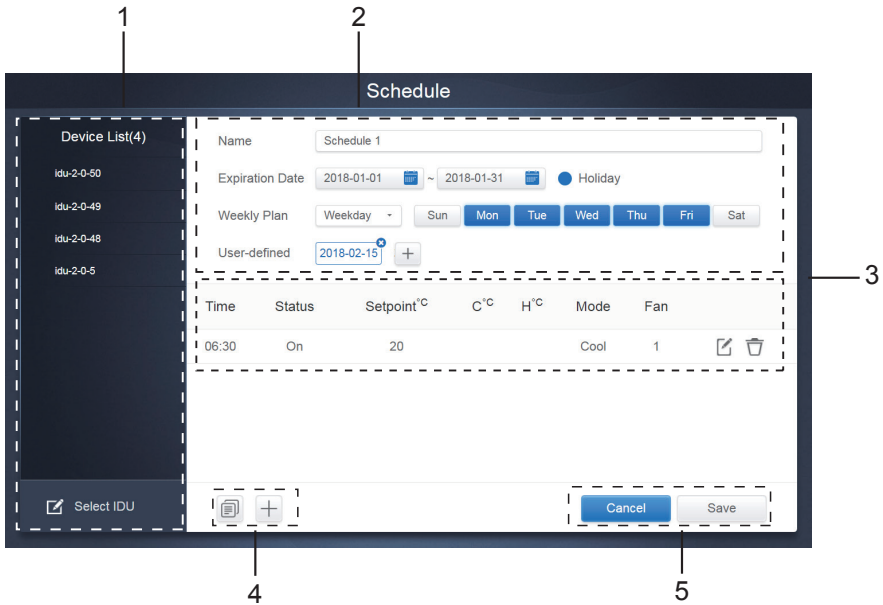


The page is divided into three sections.

1. Group list: this allows users to quickly locate device. Tap "+" to show the group and "-" to hide the group. All indoor units in a selected group will appear in the second column. Tap "Unassigned" to view units that have not been assigned to a group.
2. Column 2 is an equipment list. It shows all devices in the selected group.
3. Column 3 is a schedule list. It lists names for all of the schedule plans in the selected device.

PART 3. IMMP-BAC SECTION

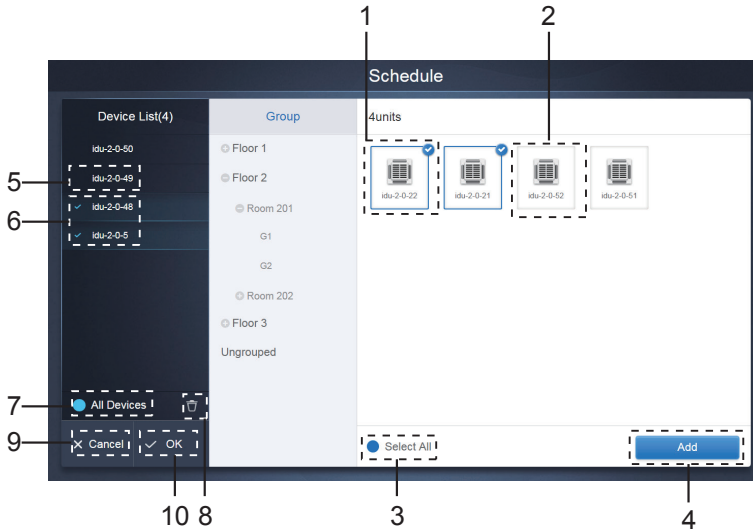
3.1.4.2 Add Schedule











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

PART 3. IMMP-BAC SECTION

3.1.4.2.1 Add Device

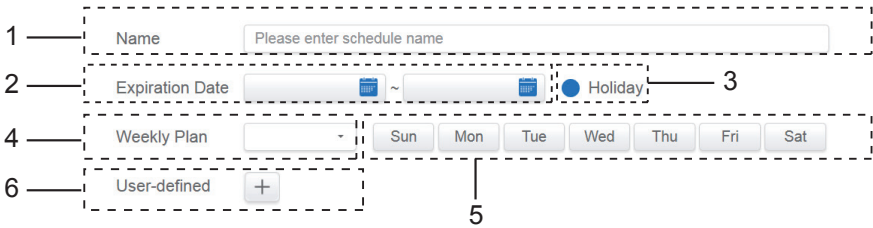


3.1.4.2.1 Device Selection Page

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" shows selected devices. An  icon appears in the upper right corner of selected devices.
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".  indicates an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. If a unit is manually removed after using the "Select All" function, the "Select All" status will still apply to the remaining units, and you can tap  to deselect all units.
4	Tap to add the selected device.
5	Displays the device that has been added. You can 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. You can tap to select this operation. "6" is a selected device, tap to deselect it. A  symbol will appear on the left side of selected devices.
7	Tap  to activate "Select All".  indicates an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. If a unit is manually removed after using the "Select All" function, the "Select All" status will still apply to the remaining units, and you can tap  to deselect all units.
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.

PART 3. IMMP-BAC SECTION

3.1.4.2.2 Date Settings





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: ([~!#\$%^&*()= {}';:;,.\<>/...?~!¥... () — 【】 “ ” ° , , ? ; 《 》])
2	Tap in the white space next to the blue icon on the left to activate the date selection dialog box. Tap 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 the holidays unless the holiday exception is selected;
The schedule in the custom dates outside the holiday is implemented, even if the date falls outside the period of validity (expiration date) or is part of a weekly plan;

The schedule for the remaining dates must be within the period of validity (before expiration date), and must satisfy the weekly plan.

3.1.4.2.3 Add Schedule Command

Tap  to create a table and you will get the dialog box to add the timings. There are four different command types that you can add and these are FAPU, HRV, Auto and No Auto. After creating a table, tap  to create a scheduled command.

- For Fresh Air Processing Unit(FAPU), you can choose from 3 modes: cool, heat and fan. In the Fan mode, you cannot change the temperature setpoint. The range of the setpoint in cool and heat modes is 17~30°C. The fan speed for cool and heat with fan is Speed 7 + Auto.

PART 3. IMMP-BAC SECTION

Rules

Type: Fresh Air Unit

Time: 06 : 30

Switch: On

Setpoint(°C): 20

Mode: Cool Heat Fan

Fan: 1

Cancel Save

2. HRV (heat recovery ventilator) has 4 operating modes: Heat Exchange, Bypass, Discharge and Fan. You cannot change the temperature setpoint in all four modes, and the fan speed is Speed 7 + Auto;

Rules

Type: HRV

Time: 06 : 30

Switch: On

Setpoint(°C): 17

Mode: Bypass Discharge Fan Auto Heat Exchange

Fan: 1

Cancel Save

PART 3. IMMP-BAC SECTION

3. AUTO mode features five operating modes: auto, cooling, heating, dehumidification, and fan. In AUTO mode, "cooling" indicates the cooling temperature and "heating" indicates the heating temperature. In cooling, heating, and dehumidification modes, "cold" indicates the set temperature, and "heat" is invalid. In Dry mode, the default fan speed is Speed 1 and cannot change. You cannot adjust the set temperature in Fan mode. The range of the set temperature is 17-30.




The screenshot shows the 'Rules' configuration interface for 'Auto Mode'. The 'Type' is set to 'Auto Mode'. The 'Time' is set to 06:30. The 'Switch' is set to 'On'. The 'Setpoint(°C)' is set to 20 for both 'C' and 'H'. The 'Mode' is set to 'Auto'. The 'Fan' is set to 1. There are 'Cancel' and 'Save' buttons at the bottom.



4. In the No Auto mode, there is only one temperature setpoint (which does not have an Auto mode). The rest are similar to that in the Auto mode.

The screenshot shows the 'Rules' configuration interface for 'No Auto Mode'. The 'Type' is set to 'No Auto Mode'. The 'Time' is set to 06:30. The 'Switch' is set to 'On'. The 'Setpoint(°C)' is set to 17. The 'Mode' is set to 'Cool'. The 'Fan' is set to 1. There are 'Cancel' and 'Save' buttons at the bottom.

PART 3. IMMP-BAC SECTION

Note:

1. Tap "+" or "-" on Setpoint to increase or decrease the temperature by 0.5.
2. Tap "+" or "-" on Time to increase or decrease the time by 1.
3. Tap the left and right arrows to turn on/off the switch. No impact on the mode settings when the Off command is sent.
4. Tap the left and right arrows to toggle the fan speed.
5. If the model in the schedule does not support this command, refer to the response of the actual indoor unit.
6. Tap  to copy the operation with the latest time stamp and add one minute to the implementation time. The 23:59 command cannot be copied.
7. To edit time stamps that have already been saved, tap , or tap  to delete them.

Time	Status	Setpoint°C	C°C	H°C	Mode	Fan		
06:30	On	20			Cool	1		




*Please consult the Midea engineer on the specific implementation for the IDU.

3.1.4.2.4 Save

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.

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

3.1.4.2.5 Change Schedule

To edit the schedule, tap  on the main page or tap  on a schedule display page where the schedule serves as the logic. From the main page, you will be taken to the schedule that is marked with . On the view page, you will be taken to 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".

PART 3. IMMP-BAC SECTION

3.1.5 Report



On the Home Page, tap **Report** .

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.



3.1.5.1 Operating Duration

Operating duration report: View the total operation duration of the IDUs within a specified time period.

Note: You can query the time and energy statistics reports only after the operating electricity file has been generated. The electricity file is generated at every point.

PART 3. IMMP-BAC SECTION

3.1.5.1.1 Query Duration

Operating Duration

Devices(5) 2018-01-01 - 2018-01-05 **Query**

Name	Date	Total	C run
idu-2-0-50	2018-01-05	6930	0
idu-2-0-49	2018-01-05	6930	0
idu-2-0-48	2018-01-05	6930	0
idu-2-0-23	2018-01-05	6930	0
idu-2-0-5	2018-01-05	6930	27

Add Dev. **Export**

3.1.5.1.1 Operating Duration

3.1.5.1.2 Operating Procedures

1. Tap on "Device Selection" to enter the device selection page.
2. Details for the Device Selection Page are provided below:

Operating Duration

Devices(5)

- idu-2-0-50
- idu-2-0-49
- idu-2-0-48
- idu-2-0-23
- idu-2-0-5

All Devices Cancel OK

Group

- Floor 1
- Room 101
- Room 102
- Floor 2
- Floor 3
- Ungrouped

Floor 1 (16units)

idu-2-0-4

idu-2-0-3

idu-2-0-15

idu-2-0-14

idu-2-0-13

idu-2-0-12

idu-2-0-11

idu-2-0-10

idu-2-0-1

idu-2-0-0

idu-2-0-20

idu-2-0-19

idu-2-0-2

idu-2-0-18

idu-2-0-17









idu-2-0-16

Select All **Add**

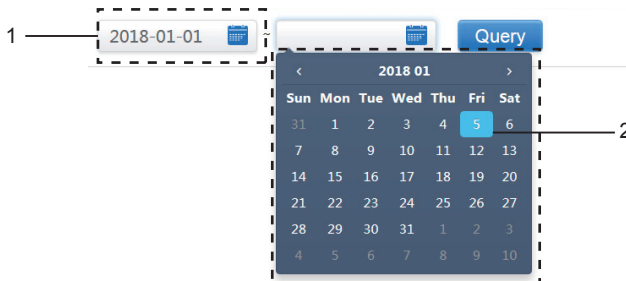
20:19

3.1.5.1.2a Device Selection Page

PART 3. IMMP-BAC SECTION

No.	Functions
1	The far right side shows devices that are awaiting selection. It shows devices that have not been added to the selected group. "1" is the selected device, which shows a  in the upper right corner.
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  activate "Select All".  indicates an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. If a unit is manually removed after using the "Select All" function, the "Select All" status will still apply to the remaining units, and you can tap  to deselect all units.
4	Tap to add the selected device.
5	Displays the device that has been added. You can 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. You can tap to select this operation. "6" is a selected device, tap to deselect it. A  symbol will appear on the left side of selected devices.
7	Tap  to activate "Select All".  indicates an active status. After activation, all the devices waiting to be selected in the group are selected. Tap again to deselect all. If a unit is manually removed after using the "Select All" function, the "Select All" status will still apply to the remaining units, and you can tap  to deselect all units.
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.



3.1.5.1.2b Time Selection Page

PART 3. IMMP-BAC SECTION

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 today's 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 year. Use the arrows on both sides at the top to quickly toggle the year and month. Each toggle is a 12-year duration for quick selection of year, 1-year duration for quick selection of month, and 1-month 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.

3.1.5.2 Running Record

The running record also needs to satisfy two conditions before the query is carried out. The operating procedures and query method are similar to 2.4.1 Operating Duration.




The query results are displayed in a table form. You can query the following data:

Operating duration, IDU name, model, IDU group number, IDU ID, operating mode, temperature setpoint, set temperature/cool temp_set in auto mode, heat temp set in auto mode, fan speed, IDU ambient temperature, error code, lock cooling set temp., lock heating set temp. mode-lock, wired controller lock, remote controller lock, fan-lock, On/Off lock, swing lock, up/down swing.

Note: Historical records can only display and export the most recent 500 records within the specified period.

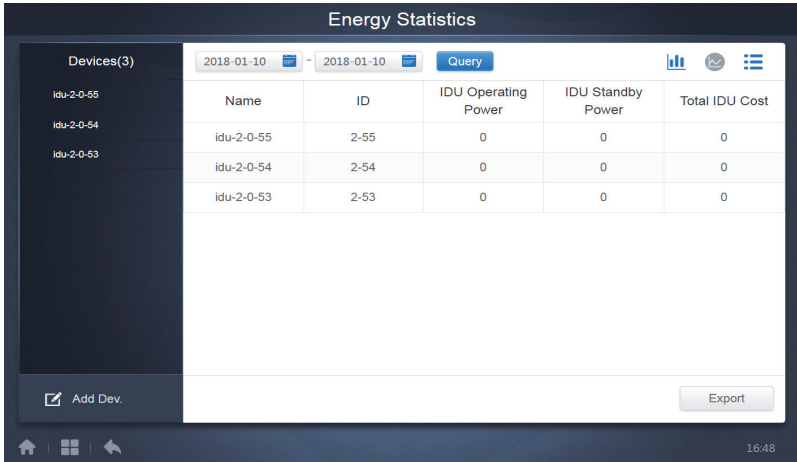
3.1.5.3 Energy Statistics

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.

Select the    buttons in the upper right corner to enter different modes. The selected mode will appear blue. These three display modes are histogram, line chart, and table.

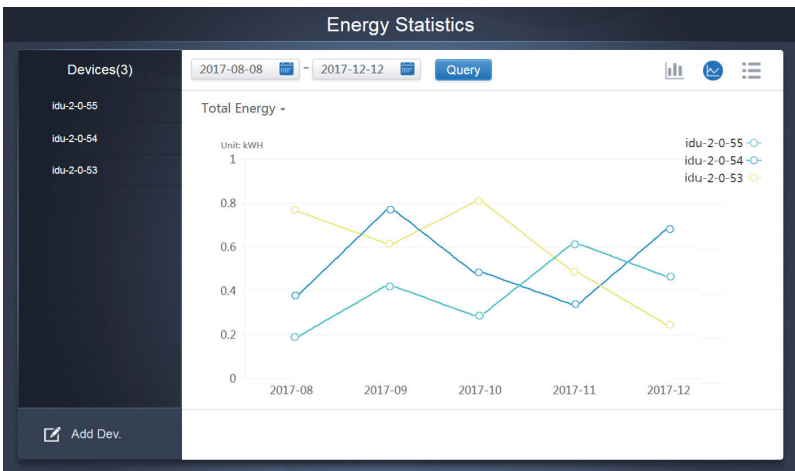
PART 3. IMMP-BAC SECTION

3.1.5.3.1 List View



List View

3.1.5.3.2 Histogram and Graph



Line Chart

PART 3. IMMP-BAC SECTION



Histogram


For histograms and graphs, you can only select 3 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".

	Operating Energy	Total Energy
IDU	Operating Electricity	Operating electricity + standby power
ODU	Operating Electricity	Operating electricity + standby power + exceptional energy

3.1.5.4 Log

Tap  in the lower left corner of the main page to enter the log interface.

PART 3. IMMP-BAC SECTION

Time	Func.	Detail	Type	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 ~ 2018-01-05 Query

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.

3.1.5.5 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.

PART 3. IMMP-BAC SECTION

The screenshot shows the 'Running Record' interface. On the left is a sidebar with a list of 21 devices, including 'idu-2-0-50' through 'idu-2-0-13'. The main area displays a table with columns for 'Operating Duration', 'Name', 'Type', and 'Group'. The table contains 8 rows of data, all with a date of '2018/01/05' and a time of '19:14:55'. The device names range from 'idu-2-0-23' to 'idu-2-0-12'. The 'Type' column shows a value of '1' for all entries. At the bottom right, there are 'Email' and 'Export' buttons.

Operating Duration	Name	Type	Group
2018/01/05 19:15:55	idu-2-0-23	1	
2018/01/05 19:14:24	idu-2-0-5	1	
2018/01/05 19:14:24	idu-2-0-4	1	
2018/01/05 19:14:24	idu-2-0-3	1	
2018/01/05 19:14:50	idu-2-0-15	1	
2018/01/05 19:14:50	idu-2-0-14	1	
2018/01/05 19:14:50	idu-2-0-13	1	
2018/01/05 19:14:50	idu-2-0-12	1	

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

3.1.6 Eco

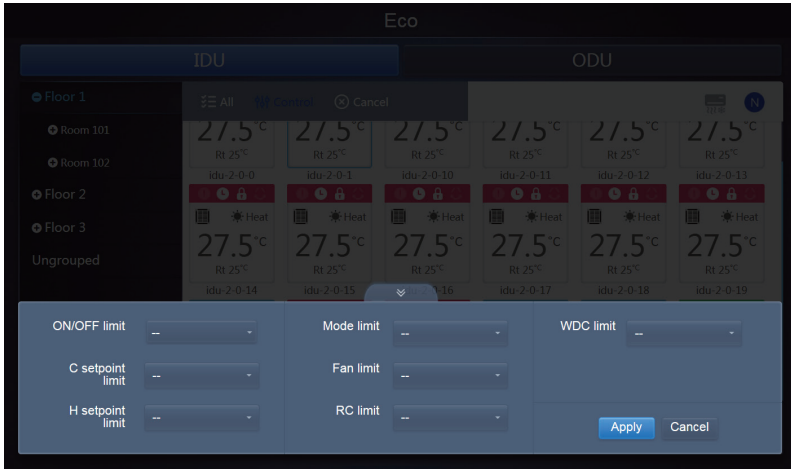
The screenshot shows the 'Eco' interface. At the top, there are tabs for 'IDU' and 'ODU'. Below the tabs is a sidebar with a tree view of rooms: 'Room 101', 'Room 102', 'Floor 2', 'Floor 3', and 'Ungrouped'. The main area is a grid of 18 control cards for individual rooms. Each card shows a temperature of '27.5°C' and a setpoint of 'Rt 25°C'. The cards are color-coded: blue for 'Cool' (e.g., idu-2-0-0, idu-2-0-1, idu-2-0-14, idu-2-0-15, idu-2-0-17, idu-2-0-18) and red for 'Heat' (e.g., idu-2-0-10, idu-2-0-11, idu-2-0-12, idu-2-0-13, idu-2-0-16, idu-2-0-19). The last card in the bottom row is for 'Fan' and shows '-°C' and 'Rt -25°C'. At the bottom right, there is a '20:41' timestamp.

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.

PART 3. IMMP-BAC SECTION



Certain indoor units may not support one or more locks described above.

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

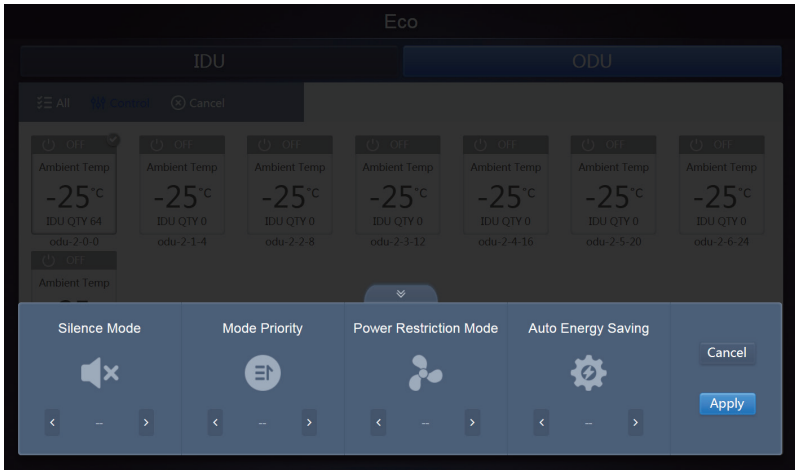
*Certain indoor unit models may not support all the lock functions mentioned above. Please consult the Midea engineer on details regarding the different lock functions supported by different IDU models.

*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 gateway, and they are independent.

PART 3. IMMP-BAC SECTION

ODU:

Outdoor unit page directly displays ODU objects.



Certain outdoor units may not support one or more lock commands described above.

The IMMP-BAC gateway 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. To use the software settings, the corresponding function dial code must be configured in the outdoor units.

"—" is the default setting for all parameters. This will not issue a command.

PART 3. IMMP-BAC SECTION

Definition	ODU Parameter	Centralized Controller Options
Silent mode	0 Night silent 1 (factory default)	8
	1 Night silent 2	9
	2 Night silent 3	10
	3 Night silent 4	11
	4 No silent mode	0
	5: Silent mode 1	1
	6: Silent mode 2	2
	7: Silent mode 3	3
	8: Super silent mode 1	4
	9: Super silent mode 2	5
	A: Super silent mode 3	6
	B: Super silent mode 4	7
	F: Set silent mode with the centralized controller	
Mode priority	000: Auto priority	Auto Priority
	001: Cool priority	Cool Priority
	010: VIP	VIP
	011: Heat Only	Heat Only
	100: Cool Only	Cool Only
	111: Set mode priority with the centralized controller	— (a 15 indicates that this parameter is not modified)

PART 3. IMMP-BAC SECTION

Definition	ODU Parameter	Centralized Controller Options
Energy output limit (power limit settings)	N41: Energy saving mode 1	Speed 0
	N42: Energy saving mode 2	Speed 1
	N43: Energy saving mode 3	Speed 2
	N44: Energy saving mode 4	Speed 3
	N45: Energy saving mode 5	Speed 4
	N46: Energy saving mode 6	Speed 5
	N47: Energy saving mode 7	Speed 6
Energy saving	ON: ("1" - In auto energy-saving mode) Off: ("0" - Exit energy-saving mode) - (Message is 15. This parameter is not modified)	

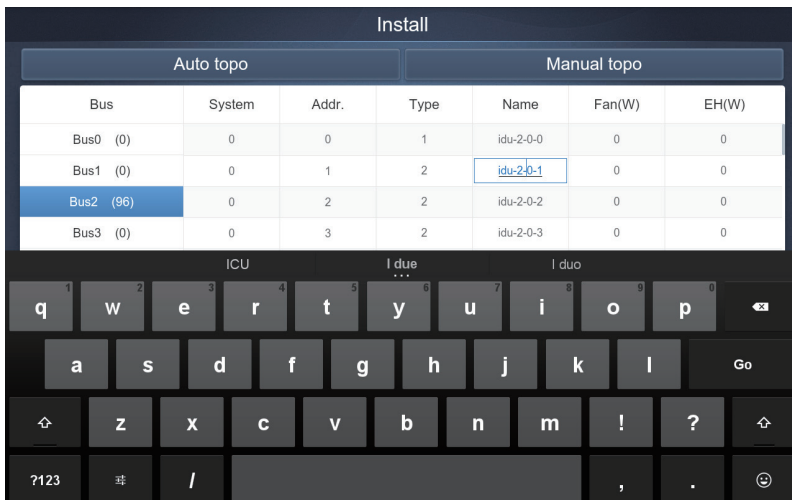
PART 3. IMMP-BAC SECTION

3.1.7 Install

Engage a professional and qualified engineer to be responsible for IMMP-BAC installation and debugging. This manual only introduces the IMMP-BAC functions, their uses and operating procedures. Details relating to installation and debugging are not described in this manual.

3.1.7.1 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.



Note:

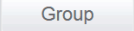
The acceptable range for the model is an integer from 0 to 12, and the model corresponds to the unit number in the device monitor.

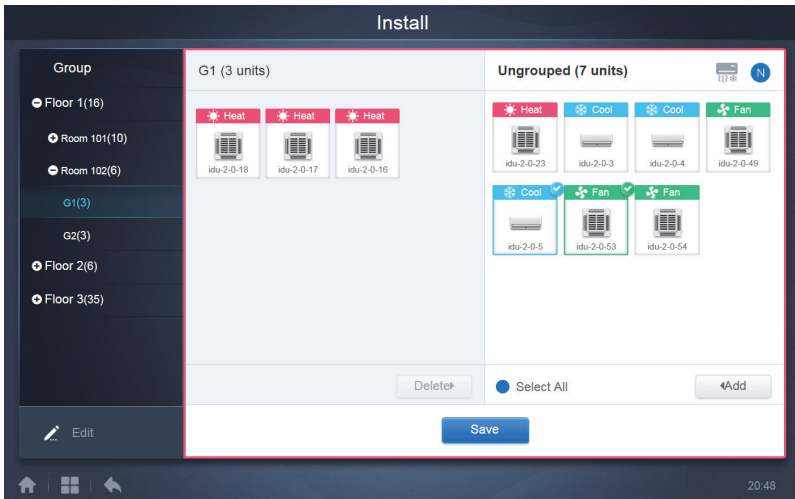
The maximum values of the fan power and the auxiliary heating power must not exceed 65535, and must not be negative values.

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.

PART 3. IMMP-BAC SECTION

3.1.7.2 Group

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

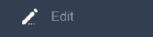


Group creation is on the left.

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 right.

3.1.7.2.1 Create, Edit, and Delete Group

Tap  in the bottom left corner to enter the page to create, edit, and delete groups.

The IMMP-BAC gateway supports three group levels.

PART 3. IMMP-BAC SECTION


Level 1	Level 2	Level 3
Floor 1	Room 101	G1
Floor 2	Room 102	G2
Floor 3		

Each column has an '+ Add' button at the bottom. A 'Save' button is centered at the bottom of the screen.

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

PART 3. IMMP-BAC SECTION

3.1.7.2.1.1 Create Group

Tap  and an editable text box for the corresponding group level will appear. This can be activated using the mouse.

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.

Maximum group name is 12 characters. You will receive a prompt during "Save" if the name exceeds 12 characters.

3.1.7.2.1.2 Editing or Deleting Groups

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



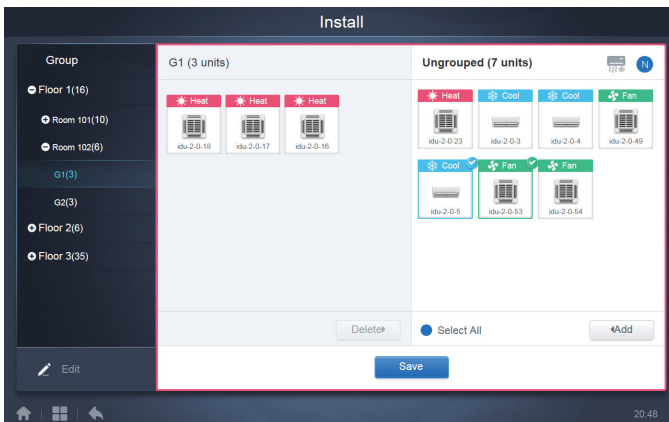
Tap the edit icon to go to the group name editor

Tap "Delete" to delete the group.

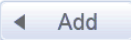
Note: Make sure you tap "Save" at the bottom of the page to save all create and edit operations. Otherwise, the changes will be discarded.

3.1.7.3 Add indoor unit to group

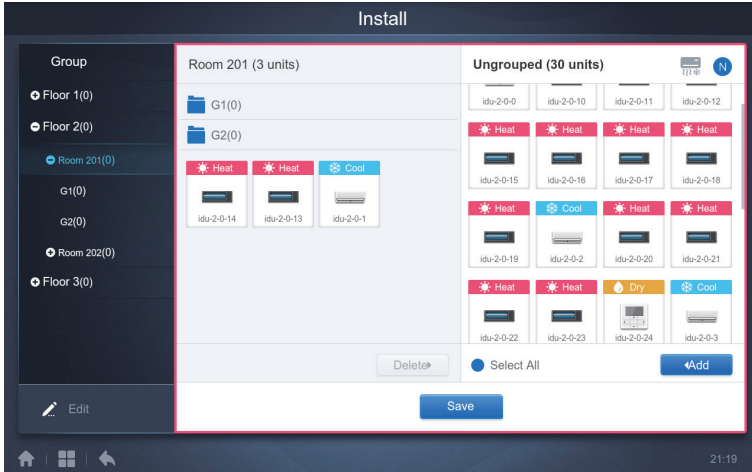
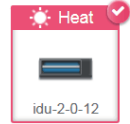
In the group page, you can add and delete the indoor units in the group.

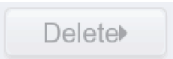



PART 3. IMMP-BAC SECTION

Select the indoor units that you would like to add from the list on the left, and tap  to add the indoor units to the corresponding group. If the selected groups have sub-groups, the screen will show the following:

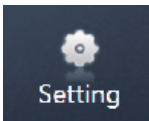
If the selected group has subgroups, they are displayed as follows:

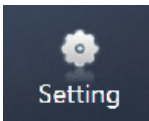


In the middle area, select the indoor units that you would like to delete and tap  to delete the corresponding indoor units from the group.

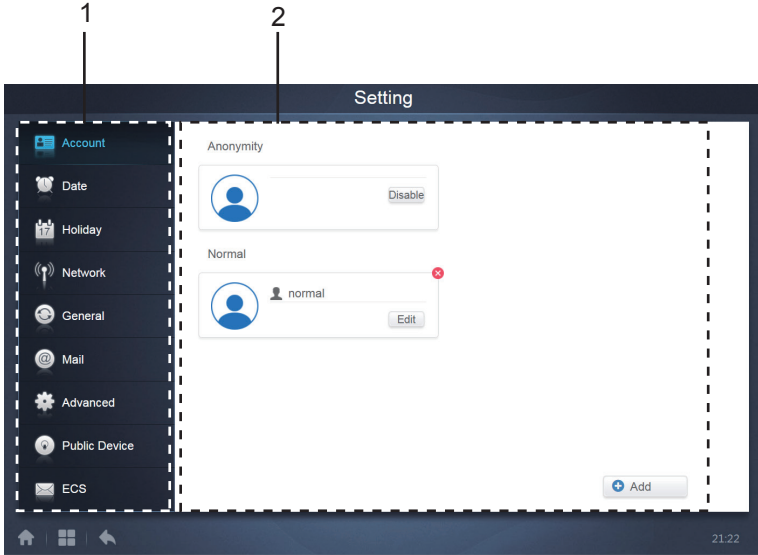
Note: To save your changes to each group's indoor devices, tap  below after editing. If you switch to another group without saving the changes, a message will appear asking you if you would like to save your changes.

3.1.8 Setting



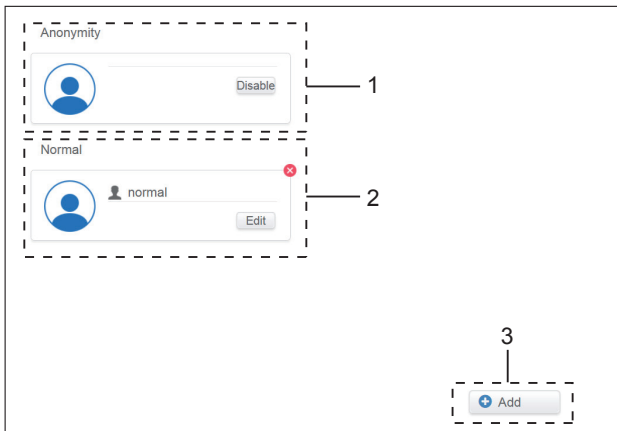
Tap  on the main page to enter the settings page. You will enter the User Management module by default.

PART 3. IMMP-BAC SECTION



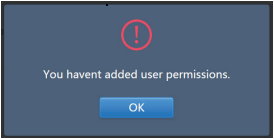
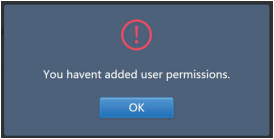
No.	Functions
1	List of available functions in the settings page. Tap to jump to the corresponding tab.
2	Shows details of the different tabs.

3.1.8.1 Account



Normal user page

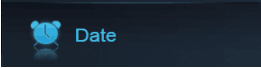
PART 3. IMMP-BAC SECTION

No.	Functions
1	View the status of the guest account. If the permissions have not been modified, tap to see 
2	Only display your own account information. You cannot delete your own account. You can only change the password. Operations to change password are similar to that for the administrator.
3	Tap when no operation permission has been set to see 

Default is maximum 15 characters for account name and password.

Default account is "normal", password "1";

3.1.8.2 Date

Tap  in the list to enter the Date Settings Tag page shown in figure 3.1.8.2.1. The default mode when you enter the page does not allow editing. On this page you can view the date and time. To change months, tap "◀" and "▶" or grey numbers that do not correspond with the current month. Tap to check the blue icon on the left of "Modify date and time" to enter the Edit mode as shown in Figure 3.1.8.2.2.

PART 3. IMMP-BAC SECTION

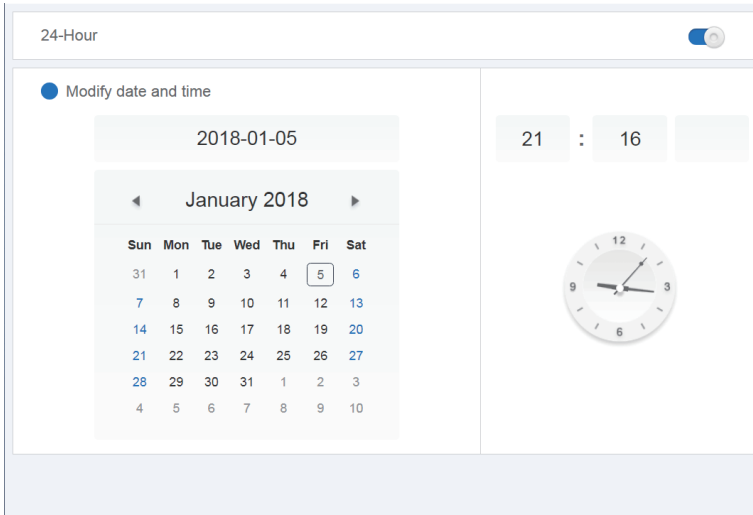


Figure 3.1.8.2.1 No Edit Mode

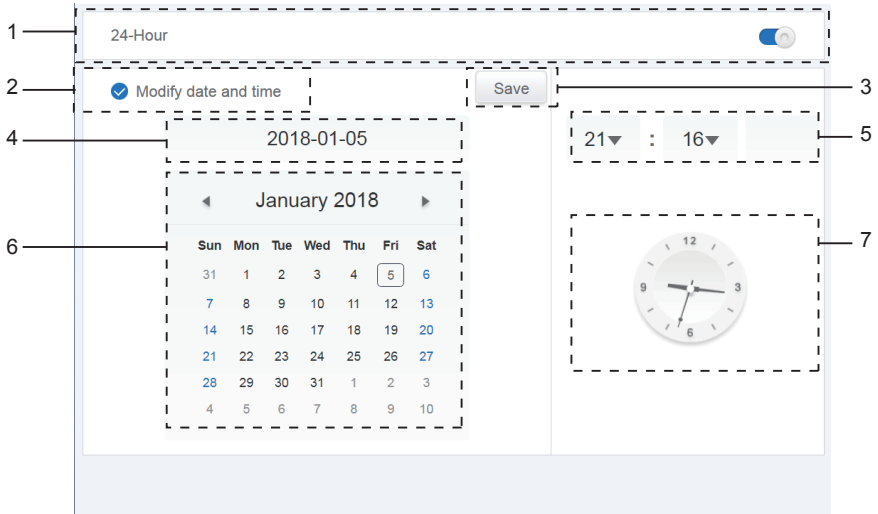


Figure 3.1.8.2.2 Edit Mode

PART 3. IMMP-BAC SECTION

No.	Functions
1	Use to switch between 24-hour clock 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 the date as a calendar, with the current date represented by a solid line. To change months, tap on the grey numbers or "◀" and "▶". In No Edit Mode, you can only view the calendar. In Edit Mode, tap the date that you would like to edit. Selected dates will 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.

3.1.8.3 Holiday

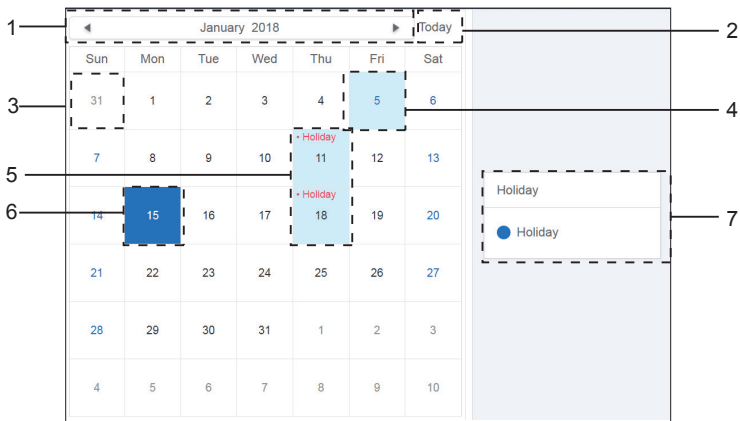




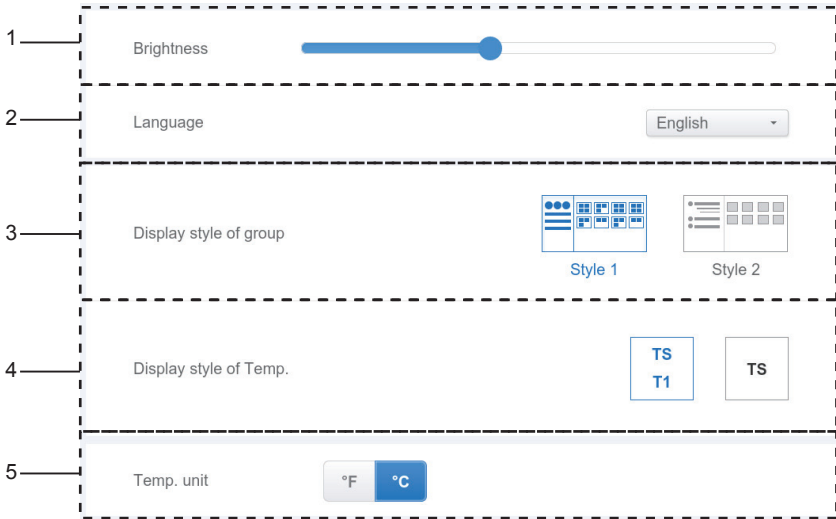
Figure 3.1.8.3.1

PART 3. IMMP-BAC SECTION

No.	Functions
1	Displays the current month and year. Tap "◀" and "▶" to switch months.
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 today's 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	The symbol for dates that are not holidays is  . The symbol for dates that are holidays is  . Select the corresponding date to view its status. Tap the blue icon to switch the status.

PART 3. IMMP-BAC SECTION

3.1.8.4 General

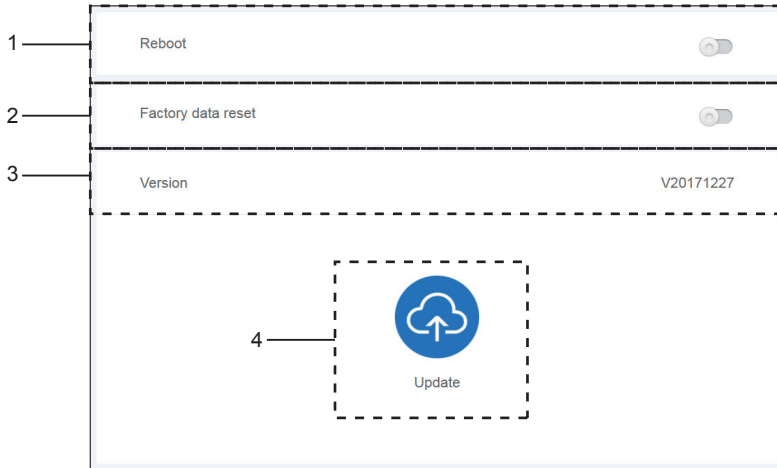


General Settings

No.	Functions
1	This function is not available in the IMMP-BAC.
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 should be 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.

PART 3. IMMP-BAC SECTION

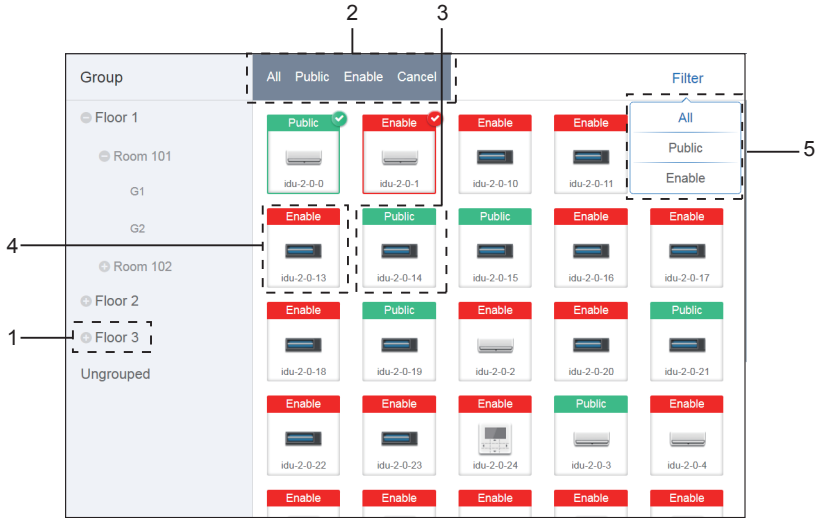
3.1.8.5 Advanced





No.	Functions
1	Tap the slider to activate the dialog box. Tap OK to reboot device. Tap Cancel to cancel all operations and exit.
2	Tap the slider to activate the dialog box. Tap OK to restore 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	Displays the unit code's QR code. Scan with the app to generate a unit code and activate the power billing function.
4	Displays the current version of the software.

PART 3. IMMP-BAC SECTION

3.1.8.6 Public Device



Public Settings

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	If "enabled devices" display method is used, a symbol will appear in the upper right corner of devices.  indicates that enabled devices are selected and  indicates that public units 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:

- When power is allocated on devices marked as public, they will be listed as enabled devices.
- Power for public devices is shared equally with other billing devices. 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).
- Wired controller groups do not currently support this function.

PART 3. IMMP-BAC SECTION

3.1.8.7 ECS

Price	<input type="text" value="1.0"/>	FTP	<input type="text" value="0"/>	version	<input type="text" value="Dec-26-2017"/>
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Standby power division type:

- The refrigerant system IDU undertakes the standby power of the corresponding refrigerant system.
- The standby power of all the refrigerant systems is divided equally among all the IDUs.

Whether to estimate the power consumption of IDU

Report output format:

- Display the operating power and standby power in separate columns
- Only display the total power (operating power and standby power)

Energy Settings

PART 3. IMMP-BAC SECTION

3.2. APPENDIX

3.2.1 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 Midea engineer to check if the error code of the specific model belongs to a "new generation of refrigerant system".

New generation of refrigerant systems

Error Codes for Indoor Unit (IDU)

Error Code	Details
E0	Mode conflict error
E1	Communication error between IDU and ODU
E2	T1 sensor error
E3	T2 sensor error
E4	T2B sensor error
E5	T2A sensor error
E6	DC fan error
E7	EEPROM error
E8	No feedback signal when the swing motor is power-up for the first time (cleared when operating with the keys on the remote controller or display board).
E9	Communication error between IDU and wired controller
Eb	EXV short circuit/freeze error
EC	IDU fan error
Ed	ODU fan error
EE	Water level alarm error
H1	Indoor unit temperature T0 error (FAPU)
H2	Low outdoor temperature (FAPU)
H3	High outdoor temperature (FAPU)
HF	M_Home mismatch error
FE	When the unit is powered on for the first time, if it does not have an address

PART 3. IMMP-BAC SECTION

Error Codes for Outdoor Unit (ODU)

Error Code	Details
E0	Communication error between outdoor units
E1	Phase sequence error of three-phase power supply
E2	Communication error between indoor unit and No. 0 outdoor unit
E3	Refrigerant electric heating sensor error
E4	T3 and T4 temperature sensor error
E5	Over/under voltage protection
E6	DC fan protection
E7	Discharge temperature sensor fault
E8	ODU address error fault
E9	EEPROM error
EA	Heating/hot water fans are protected in Zone A for 5 minutes
Eb	2 E6 errors have occurred in the past 10 minutes (power failure recovery)
EC	Tube water outlet temperature sensor error
Ed	Water tank temperature sensor error
EE	Refrigerant output tube sensor error
EF	Other error (centralized controller display)
EH	Return water temperature Th sensor error on hydraulic module tank
EL	Electronic lock error
EP	Cooling mode T4 low protection
P0	Inverter compressor top temperature protection
P1	High pressure switch protection or discharge temperature switch protection
P2	Low pressure protection for pressure switch
P3	Over current protection for inverter/digital compressor
P4	Protection against excessive discharge temperature of compressor
P5	T3 condenser high temperature protection
P6	Module protection (IPDU and IR341; can check specific contents)

PART 3. IMMP-BAC SECTION

Error Code	Details
P7	Fixed speed compressor over current protection
P8	Typhoon protection
P9	DC fan module protection
PA	Twater high temperature protection
Pb	Master unit anti-freezing protection
PC	Tt high temperature protection
Pd	Water pump over/under current protection
PE	Evaporator T2 high temperature protection
PF	Electronic lock non-lock/other protection (centralized controller display)
PH	Protection for excessive difference of water inlet/outlet (floor heating mode)
PL	Heat sink high temperature protection
PP	Insufficient superheat degree
H0	Communication error between main controller and module chips
H1	Communication error between main controller and 0537 communication chips
H2	ODU qty decrease fault
H3	ODU qty increase fault
H4	Protection for 3 occurrences of P6 in 60 minutes (power failure recovery)
H5	Protection for 3 occurrences of P2 in 60 minutes (power failure recovery)
H6	Protection for 3 occurrences of P4 in 100 minutes (power failure recovery)
H7	Mismatch indoor unit quantity (or the number of indoor units has decreased)
H8	High-pressure sensor fault
H9	Protection for 3 occurrences of P9 in 60 minutes (power failure recovery)
HA	Communication error (hydraulic module and outdoor unit)
Hb	Communication error (wired controller and hydraulic module)
HC	Mismatch of energy dial code (detached)
Hd	Slave unit error
HE	Floor heating return water temperature Tf sensor error

PART 3. IMMP-BAC SECTION

Error Code	Details
HF	M-Home mismatch
HH	Tube return water temperature Ti sensor error
HL	PFC module error
HP	Floor heating water outlet temperature sensor error
C0	TSJ water inlet temperature sensor error
C1	TSC1 water outlet temperature sensor 1 error
C2	TSC2 water outlet temperature sensor 2 error
C3	Low pressure sensor fault
C4	Protection when TSC water outlet temperature is too high or low
C5	Protection when TSJ water inlet temperature is too high or low
C6	Low voltage protection
C7	Protection against excessive temperature of the inverter module
C8	Open circuit protection for water flow switch
C9	Frequency abnormality protection
CA	Protection against excessive thyristor temperature
Cb	Fan 1 excessive temperature protection
CC	Fan 2 excessive temperature protection
Cd	Thyristor temperature sensor error
CE	Outdoor unit error (wired controller display)
CF	Outdoor unit protection (wired controller display)
CH	PFC-DC electrical under current protection
CL	Protection again low water temperature in heating mode
CP	Pump-idling protection
F0	3 occurrences of insufficient superheat
F1	Bus voltage error (PTC)
F2	High pressure ratio error
F3	T5 error

PART 3. IMMP-BAC SECTION

Error Code	Details
F4	T6 error
F5	T7 error
F6	Electronic expansion valve miss error
d0	Oil return
dF	Defrost
L0	DC compressor module error
L1	DC bus low voltage protection
L2	DC bus high voltage protection
L4	MCE error/sync/closed loop
L5	Zero speed protection
L7	Phase sequence error protection
L8	Protection for when the previous and next speed change is > 15 Hz
L9	Protection for a difference of > 15 Hz between the set speed and operating speed

PART 3. IMMP-BAC SECTION

Non next-generation refrigerant system

Error Codes for Indoor Unit (IDU)

Error Code	Details
EF	Other errors
EE	Water level detection error
ED	Outdoor error protection
EC	Clean error
EB	Inverter module protection
EA	Compressor over current (4 times)
E9	Communication error between main board and display board
E8	Fan speed detection error
E7	EEPROM error
E6	Zero-crossing detection error
E5	T3, T4, or digital compressor discharge temperature sensor error Outdoor error protection
E4	T2B sensor error
E3	T2A sensor error
E2	T1 sensor error
E1	Communication error
E0	Phase sequence error or phase loss
PF	Other protections
P2	High temperature protection of condenser
P1	Anti cold wind and defrost protection
P0	Evaporator temperature protection

PART 3. IMMP-BAC SECTION

Error Codes for Outdoor Unit (ODU)

Error Code	Details
EF	Other errors
H3	ODU increase error (master unit effective)
H2	ODU decrease error (master unit effective)
H0	DSP communication error
H1	Network communication error
E9	Voltage error
E6	T6 sensor error
E3	T3, T4, or digital compressor discharge temperature sensor error
E2	Indoor/outdoor unit communication error
E1	Phase sequence error or phase loss
E0	ODU communication fault
PF	Other protections
PE	Oil balance
PD	Oil return
PA	Defrost protection
P9	Power source over/under voltage protection
P8	Compressor over current protection 3
P7	Compressor over current protection 2
P6	Inverter module protection
P5	High temperature protection of condenser
P4	Air discharge pipe temperature protection
P3	Compressor over current protection 1
P2	Low discharge pressure protection
P1	High discharge pressure protection
P0	Temperature protection for compressor top

PART 3. IMMP-BAC SECTION

3.2.2 Software Use Precautions

- a) If the web interface is not displaying correctly and showing incorrect titles or misplaced icons, etc., please refresh the webpage using your browser's refresh button (the keyboard shortcut for Chrome is Shift + F5)

3.2.3 Wired Controller Group

For the new units, certain wired controllers support the access of multiple IDUs 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", "Power consumption report"	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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