MUND�CLIMA®

- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- In order to ensure correct service of the wired controller please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.

CONTENTS

1 GENERAL SAFETY PRECAUTIONS

1.1 About the documentation

- The original documentation is written in English. All other languages are translations.
- The precautions described in this document cover very important topics, follow them carefully.
- All activities described in the installation manual must be performed by an authorized installer.

1.1.1 Meaning of warnings and symbols

⚠ CAUTION

Indicates a situation that could result in minor or moderate injury.

💡 NOTE

Indicates a situation that could result in equipment or property damage.

ℹ INFORMATION

Indicates useful tips or additional information.

1.2 For the user

- If you are not sure how to operate the unit, contact your installer.
- The appliance is not intended for use by persons, including children, with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure that they do not play with the product.

⚠ CAUTION

Do NOT rinse the unit. This may cause electric shocks or fire.

♡ NOTE

- Do NOT place any objects or equipment on top of the unit.
- Do NOT sit, climb or stand on the unit.

• Units are marked with the following symbol:

This means that electrical and electronic products may not be mixed with unsorted household waste. Do not try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, of oil and of other parts must be done by an authorized installer and must comply with applicable legislation. Units must be treated at a specialized treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. For more information, contact your installer or local authority.

2 BASIC PARAMETERS

Items	Description
Rated voltage	DC18V
Wiring size	RVVP-0.75mm² x 2
Operating enviroment	-5°C ~43
Humidity	≤ RH90%

3 ACCESSORIES LIST

No.	Name	Quantity
1	Wired controller	1
2	Philips head screw, M4×25	2
3	Installation and Operation Manual	1
4	Plastic support bar	2
5	Bottom cap of the wired controller	1
6	Round head screw ST4X20	3
7	Plastic expansion pipe	3

4 INSTALLATION

4.1 Installation Precautions

- To ensure correct installation, read the "Installation" section of this manual.
- The content provided here covers warnings, which contain important information about safety that must be followed.

⚠ CAUTION

Entrust a local distributor or local service agent to appoint a qualified technician to perform the installation. Do not try to install the unit by yourself.

Do not knock, throw, or randomly disassemble the wired controller.

The wiring must be compatible with the wired controller current.

Use the specified cables, and do not place any heavy object on the wiring terminals.

The wired controller line is a low-voltage circuit, which cannot come into direct contact with the high voltage l

ine or be laid in the same wiring tube together with the high voltage line. The minimum spacing of wiring tubes is 300 to 500 mm.

Do not install the wired controller in corrosive, flammable and explosive environments or places with oil mist (such as a kitchen).

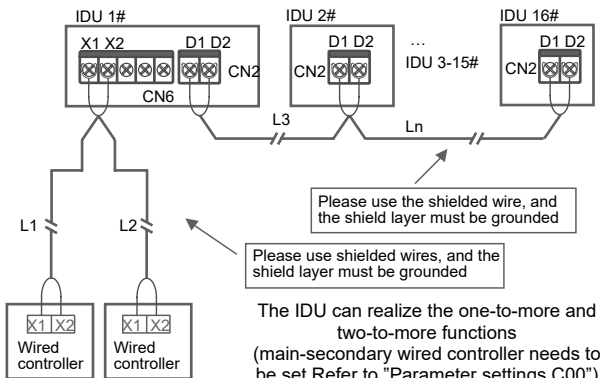Do not install the wired controller in a wet place and avoid direct sunlight.

Do not install the wired controller when it is powered on.

Please install the wired controller after painting the wall; otherwise, water, lime and sand may enter the wired controller.

4.2 Installation Method

4.2.1 Wiring requirements

One-to-more and two-to-more

IDU 1#

X1 X2   D1 D2 CN2

CN6

IDU 2#
D1 D2
CN2

... IDU 3-15#

IDU 16#
D1 D2
CN2

L3   Ln

Please use the shielded wire, and the shield layer must be grounded

Please use shielded wires, and the shield layer must be grounded

L1   L2

X1 X2   X1 X2
Wired controller   Wired controller

The IDU can realize the one-to-more and two-to-more functions (main-secondary wired controller needs to be set.Refer to "Parameter settings C00")

The one-to-more function must be set for the wired controller. (Refer to "Parameter settings N37") After the communication between the wired controller and IDU lasts 3 minutes and 30 seconds, the control can be implemented.

One-to-one

- Applicable to bi-directional communication between wired controller and IDU.
- One-to-one: One wired controller controls one IDU. The parameters displayed on the wired controller are updated in real time according to changes in the parameters of the IDU.
- The permissible longest wiring length of the system is 200 m.
- Communication cables between the IDU and the wired controller (X1, X2) may be connected in reverse order.

| P/Q/ E | P/Q/ E | P/Q/ E | P/Q/E |

| X1/X2 | X1/X2 | X1/X2 |

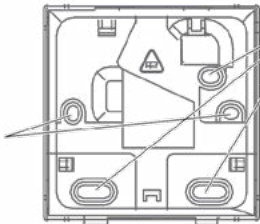| One-to-one | One-to-one | One-to-one |
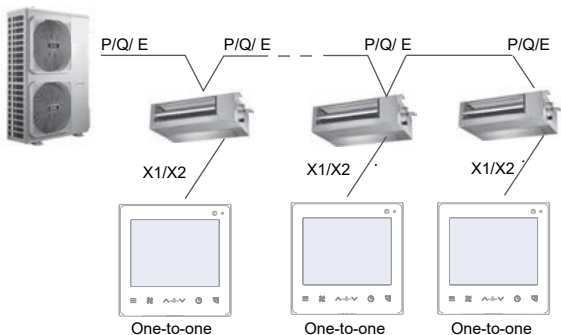
Two-to-one

- Applicable to bi-directional communication between wired controller and IDU.
- Two-to-one: Two wired controller controls one IDU. The parameters displayed on the wired controller are updated in real time according to changes in the parameters of the IDU. Two-to-one:wired controller must be set as main or secondary.
- Refer to "Parameter settings C00"
- The permissible longest wiring length of the system is 200 m.

Two-to-one One-to-one   Two-to-one
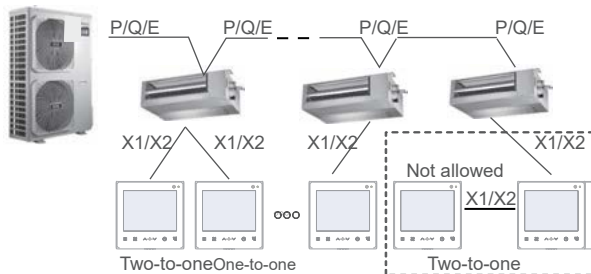
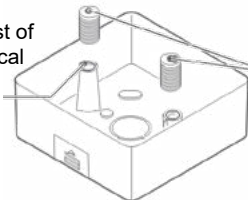**4.2.2 Installlation of bottom cap of the wired controller**

Screw hole installed on the wall Use three round head screw ST4X20 and plastic expansions pipe

Screw hole installed on 86 Electrician box, use two Philips head screw, M4x25

When installed 86 Electrician box:
Adjust the lengths of the two plastic support bars in the accessory package. Ensure that the bottom cap of the wired controller stays level with the wall when installed on the screw post of electrical box.
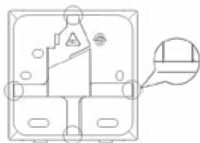

Use a cutting tool to adjust the lengths of the two plastic support bars

Screw post of the electrical box
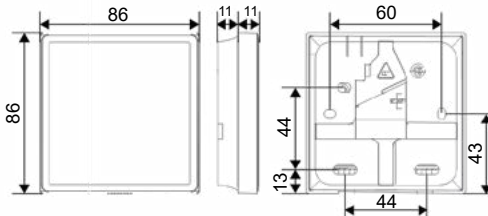
When installed on the wall:
The wire can be placed outlet or inside. Wire outlet have four side to select.

Cutting place of up,down,left and right side wire outlet

Installation Dimensions:

86

86

11 11

60

44

13

43

44

4.2.3 Lead the 2-core shielded cable through the wiring hole in the bottom cap of the wired controller, and use screws to reliably fasten the shielded cable onto terminals X1 and X2. Then fix the bottom cap of the wired controller onto the electrical box by using pan head screws.
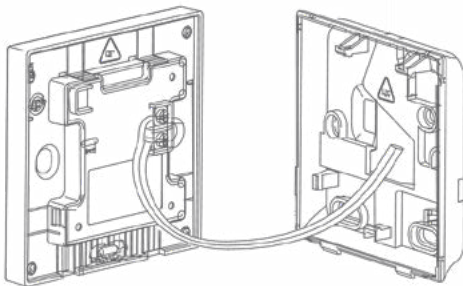
💡 **NOTE**

Do not perform wiring operations on energized parts.
Make sure that you remove the wired controller before
proceeding. Otherwise, the wired controller may be
damaged.

Do not overtighten the pan head screws; otherwise,
the bottom cap of the wired controller may deform and
cannot be levelled on the wall surface, which makes it
difficult to install or not securely installed.

Avoid the water enter into the wired remote controller, use trap and putty to seal the connectors of wires during wiring installation.
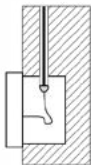
Electrician box   wire inside   wire outlet

4.2.4 Buckle the wired controller and the rear cover as shown in the following figure.
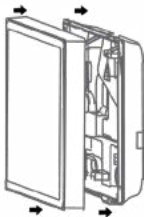
When they are correctly buckled
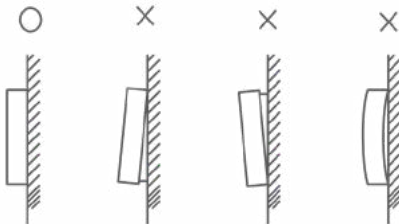
⏻ NOTE

Make sure that no cables are clamped when buckling the wired controller and bottom cap.

The wired controller and bottom cap should be installed correctly. Otherwise, they may get loose and fall apart.

5 OPERATION INSTRUCTIONS

5.1 User Interface Overview

15

5.2 Icon Explanation

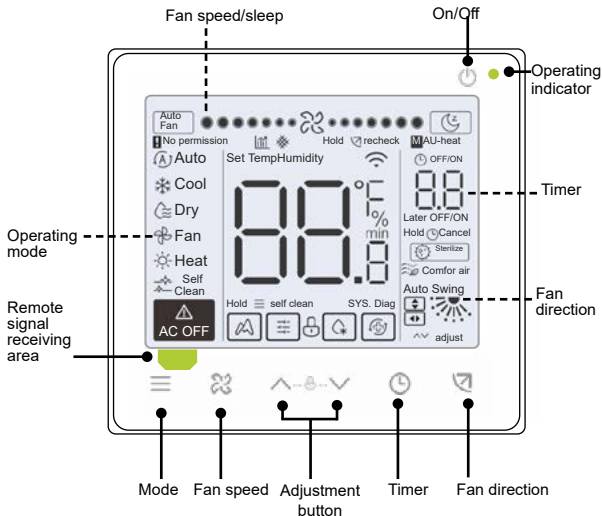| N.	Icon	Name	Description
1	🏛	Energy Efficiency Attenuation	It will be flashed when IDU energy efficiency attenuated.When "Parameter settings C17" is seted "yes",the screen displays IDU Energy Efficiency Attenuation percentage when the wired controller is in off mode,.Efficiency Attenuation percentage and filter blockage percentage will be displayed alternately in off mode when "Parameter settings C17 and C18" are seted "yes".
2	☾	Sleep Mode	It will be lighten when the unit is in sleep mode
3	⚕	ETA Function	It will be lightened when the ETA Function is activated.
4	🔒	Key Lock	Refer to page 24
5	❄	Defrosting Mode	Refer to page 24
6	☰	Lock Mode	It will be lightened when the controller is locked by central control or the controller lock the mode, temp by itseft.
7	🖐	Backup Mode	It will be flashed when IDU or ODU in sensor backup state.
8	❋	Filter Blockage	Refer to page 25
9	M	Main/secondary	It will be lightened when the controller is set as the main controller

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5.3 Operation Instructions

On/Off

$\circlearrowleft$

Press " $\circlearrowleft$ " to turn on or off the IDU.

ℹ INFORMATION

The screen and operating indicator get dimmed when the unit is powered off.

⚠ AC OFF   The icon is displayed when the IDU is off.

Mode Selection

$\equiv$

Each time " $\equiv$ " is pressed, the operating mode changes according to the order shown below (Auto mode is specific to some IDUs; Dry mode is not supported on FAPUs):

➡ Auto ➡ Cool ➡ Dry ➡ Fan ➡ Heat
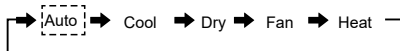
Set temperature

$\wedge$ $\vee$

Except for fan mode, press " $\wedge$ " or " $\vee$ " to adjust the indoor set temperature. Holding the button can rapidly increase or decrease the temperature value.

5.3.1 Auto mode temperature setting

In auto mode, the wired controller sends Tsc and Tsh to the indoor unit, which will operate in cooling/heating mode according to the real-time room temperature and the set temperature will be adjusted to Tsc (Tsh) of auto cooling (heating).

The DTs_AutoChange(auto cooling and heating temperature difference) can be set through engineering parameter settings which will calculates the set temperature Tsh (Tsc) of auto heating (cooling) (for example, if DTs_AutoChange is effective and DTs_AutoChange=5 °C and the Tsc of auto cooling is set to 25 °C, then the heating Tsh automatically set to 20 °C).

In Auto mode, the wired controller displays Auto/Cool or Auto/Heat. When the IDU is operating for cooling in Auto mode, the "Auto" and "Cool" icons light up; when the IDU is operating for heating in Auto mode, the "Auto" and "Heat" icons light up.

5.3.2 Self clean function

self clean function.

Press and hold " ☰ " for 2s to start self clean function.

The self-cleaning process takes approximately 50 minutes and falls into four steps:

Preprocessing ➡ Freezing ➡ Melting and cleaning ➡ Drying

Hold for 2s
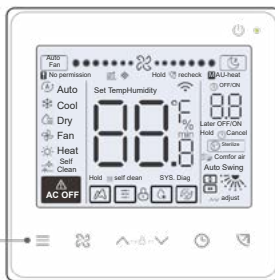
After self clean function is completed, the IDU powers itself off.

ⓘ INFORMATION

To exit self clean function during operation, press " ⏻ ".

Some models do not have self clean function. For details, please refer to the manual of IDU.

When self clean function is enabled, all indoor units (sharing the same outdoor unit) start the process of self clean function.
During the process of self clean function, the IDU may blow out cool air or hot air.

5.3.3 Fan speed and fan direction setting

Adjust fan speed   Press " ꝕ " to adjust fan speed, ranging from Auto, 7 speeds and sleep mode.

⌁

➡ 🕒 ➡ • ꝕ • ➡ • • ꝕ • • ➡ … ➡ •••••••• ꝕ •••••••• ➡ Auto Fan

ℹ️ **INFORMATION**

After sleep mode has been running for 8 hours, the " ⏾ " icon is dimmed and the unit will exit the mode automatically.

Press the fan speed button to exit sleep mode.

In Auto mode and Dry mode, fan speed is automatic by default, and the fan speed is unadjustable.

Depending on IDU models, 3-speed or 7-speed can be set.

While ensuring efficiency, the IDU may adjust fan speeds depending on the indoor temperature. Therefore, it is normal if the real-time fan speed differs from the set fan speed or the fan stops.

After the fan speed is set, it takes time for the IDU to respond. It is normal if the IDU does not respond to the setting immediately.

In auto mode, the fan speed is decided by optimal operating strategy, and the fan speed displayed on the wired controller may not be consistent with the set fan speed.

The present publication is drawn up for informational purposes only. Specifications are subject to change as product improvements and developments without prior notice.

Set swing

$\triangleleft$

By pressing " " each, the fan direction is switched in the following sequence:

Comfor air → Auto Swing → ➙ ➙ ➙ ➙

Position 1 Position 2 Position 3 Position 4 Position 5

INFORMATION

It applies to IDUs containing electric air outlet panels.

When the unit is closed, the wired controller automatically shuts louvers of the air outlet panels.

For units that feature up/down and left/right swing, follow the steps below to change swing angle.

By pressing " $\triangleleft$ ", " $\updownarrow$ " lights up, and the angle of swing up and down 2 Hz flashes. Press " $\vee$ " and " $\wedge$ " to change the angle, and code is sent after 0.5s. By pressing " $\triangleleft$ ", " $\leftrightarrow$ " lights up, and the angle of swing left and right 2 Hz flashes. Press " $\vee$ " and " $\wedge$ " to change the angle, and code is sent after 0.5s. Then press " $\triangleleft$ " to exit swing angle setting. The interface displays the set up and down angle. When both vertical and horizontal swing or louver angle are set simultaneously, the controller interface alternately displays the status of vertical and horizontal settings.

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⬆️⬇️ up/down swing:

→ ❄️ Comfor air → Auto Swing → Position 1 → Position 2 → Position 3 → Position 4 → Position 5

◀▶ left/right swing:

→ Position 1 → Position 2 → Position 3 → Position 4 → Position 5

5.3.4 Timer setting

Timer On setting:

🕐 → Timer On

hours later On
Press and hold 🕐
to cancel

→ ∧ ∨ →

Timer On

hours later On
Press and hold 🕐
to cancel

→ By pressing " 🕐 "
or if no operation
is performed for
5s, the timer is
confirmed.

Timer Off setting:

🕐 → Timer Off

hours later Off
Press and hold 🕐
to cancel

→ ∧ ∨ →

Timer Off

hours later Off
Press and hold 🕐
to cancel

→ By pressing " 🕐 "
or if no operation
is performed for
5s, the timer is
confirmed.
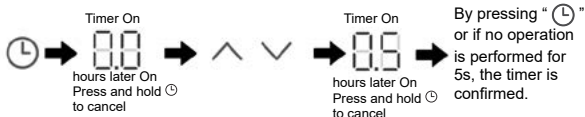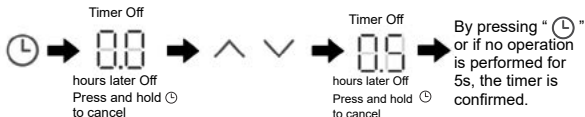
Cancelling timer function:

🕐 → Press and hold " 🕐 " or
change the time to "0.0" → Cancel timer

23
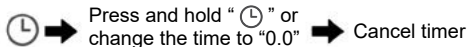
Timer Off can be set when the IDU is on and Timer On can be set when the IDU is off.

5.3.5 Auxiliary heater on/off

This function works in heating mode.

Auto auxiliary heater on:

If the N16 setting is set to auto, in heating mode, when the electric auxiliary heating is enable on the controller, the auxiliary heater will automatically turn on based on the settings N11~N13 to determine the ambient temperature. Alternatively, according to the N16 settings, electric auxiliary heating can be forcibly turned on or not turned on in heating mode.

If auxiliary heat source used alone is needed: N15 parameter need tobe set as 01, and the IDU is in fan mode.

Auxiliary heater on:

Holding both for 3 seconds

24

Auxiliary heater off:

∧ + ⍋ ➡ AU-heat

Holding both for 3 seconds

ⓘ INFORMATION

The auxiliary heater is an additional heating component to the IDU unit, but it increases power consumption after it starts working.

5.3.6 Key lock setting

Enable key lock:

∧ + ∨ ➡

Holding both for 1 second

Enable key lock

The wired controller doesn't respond when buttons are pressed and " 🔒 " flashes.

Disable key lock:

∧ + ∨ ➡

Holding both for 1 second

Disable key lock
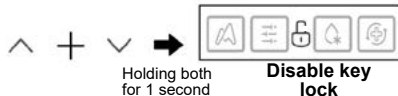
5.3.6 Defrosting Reminder

When frost builds up on the surface of the outdoor unit, the heating effect will be compromised. In this case, the unit starts defrosting automatically.

5.3.7 Clean Filer Reminder

When the operating time reaches the preset time or when the filter blockage level reaches 10, the Filter icon " ✿ " flash to remind users to clean the filter.

- Press and hold " ▽ "button for 3 seconds to remove the Filter icon " ✿ "
- Go to "Parameter settings C03" to turn on/off this function or preset time of this function.
- The secondary wired controller has no clean filer reminder function.

IDU filter blockage display

After open the IDU filter blockage display function from "Parameter settings C18", when the wired controller is in off mode, the screen displays IDU filter blockage percentage.

⚲ NOTE

If constant air flow is selected for IDU, the filter resistance will be set via the wired controller. The smaller you set this value, the more frequently you need to clean your filter. But this is more energy efficient and healthier. If you set this value too large, you can have the unit work for longer time without performing any maintenance. But it will consume more power and become dusty.

5.3.8 Sterilize mode

It only works with an IDU containing a sterilization module.

Enabling sterilization mode:

∨ + ☑ ➡ ⚙ Sterilize

Holding both
for 3 seconds

Disabling sterilization mode:

∨ + ☑ ➡ ⚙ Sterilize

Holding both
for 3 seconds

ℹ️ **INFORMATION**

On the Project Commissioning page, you can enable or disable sterilization feature.

Parameter N42 on the engineering setting page allows you to set the sterilization module.

It works only with the IDU provided with sterilization feature.

The sterilization module stops when the swing function is enabled, and does not resume operation until the swing function is disabled.

5.3.9 Humidity setting

In dry mode, press " $\wedge$ " and " $\vee$ " to change humidity in the range of 35-75%.

ⓘ INFORMATION

This function only works when used with a humidity sensor. When the IDU is not equipped with a humidity sensor, the Dry interface displays the set temperature.

The humidity is 65% by default when the wired controller is powered on for the first time.

Each time you press " $\wedge$ " and " $\vee$ ", the value changes by 1%. Hold the button to speed up your operation.

5.3.10 Indoor temperature display
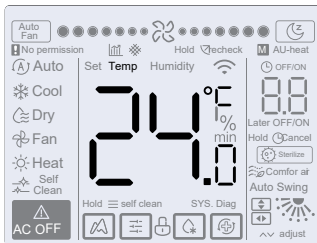
- This function can be set via the wired controller by setting the parameter C05 "whether indoor ambient temperature is displayed".
- Press any button on the screen to return to the previous page.

5.3.11 Functions of the main/secondary wired controller

- When two wired controllers control one indoor unit at the same time (2-to-1 system), one controller will be the Main, and the other will be the Secondary.
- The main wired controller rather than the secondary wired controller allows you to set the timer and IDU parameters.

5.4 Mode Conflict Reminder
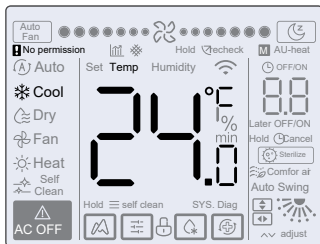
When the indoor unit detects a mode conflict, the icon " 🔒 No permission" flashes with the current mode display.

5.5 Engineering Settings

5.5.1 Restore factory settings

- Holding " ⚌ ", " ⏲ " and " ⬗ " at the same time for 5 seconds can restart and reset the Parameter settings of wired controller.

5.5.2 Automatically identifying models

• The wired controller can automatically identify the model of the IDU, based on which, the wired controller automatically updates the information, such as the spot check condition and error code of the IDU.

5.5.3 IDU address query

• If the indoor unit has no address, the wired controller will display U38 error.

• Press and hold " ∧ " and " ⊕ " at the same time for 5s to enter IDU address query interface. Press " ⊕ " to exit the interface.

• Once you are on the address query page, the wired controller displays the current address if the indoor unit has an address.

• Addresses can be set to allow control of one IDU by one controller or two controllers (can be set with the main wired controller, not any secondary wired controller). Press and hold " ⊕ " and " ∧ " for 5s to enter IDU address query and setting interface. Then press " ⊠ " and the number area begins flashing. Press " ∧ " and " ∨ " to change address and press " ⊠ " to confirm your changes. The wired controller will automatically exit the address setting page if no operation is performed for 60s, or you can press " ⊕ " to exit the address setting page.

5.5.4 Parameter settings of the wired controller

- Parameters can be set in the power-on or power-off state.
- Hold " ▽ " and " ≡ " for 3 seconds to enter the parameter setting interface.
- After entering the parameter setting interface, the ODU displays u00, the IDU displays n00-n75, and the wired controller displays CC. Press " ∧ " and " ∨ " to switch the parameter code. Set parameters according to the Table of Parameter Settings. Press "Swing" to enter the parameter setting interface. Then press " ∧ " and " ∨ " to change parameter value and press " ▽ " to save changes.
- Press the " ⏲ " button to return to the previous page until exiting the parameter setting or exiting the parameter setting after 60s without any operation.
- When it is in the parameter settings page, the wired controller does not respond to any remote control signal.

- When it is in the parameter settings page, the mode, fan speed, and switch buttons are invalid.
- Parameter C14 allows you to return to the home screen after pressing " ⊘ ".

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
C00	Main and secondary wired controller setting	0 indicates the main wired controller and 1 indicates a secondary wired controller	0	If two wired controllers control one IDU, addresses for two wired controllers must be different. You are not allowed to set IDU parameters via the secondary wired controller (address 1), but can set the wired controller.
C01	Cooling only/cooling and heating setting of wired controller	00: Cooling and Heating 01: Cooling Only	00	No Heat mode for wired controller set with Cooling Only
C02	Auto restart function setting for the wired controller	00: No 01: Yes	00	If the value is set to 00, the wired controller screen displays cooling, medium fan speed, and set temperature 24°C after each power-on. If the value is set to 01, the wired controller screen displays the mode, temperature, and fan speed that were previously set before a power failure upon each power-on.
C03	Time to remind users to clean the filter on the wired controller	00/01/02/03/04	01	00: No filter cleaning reminder 01: 1200 hours 02: 2500 hours 03: 5000 hours 04: 10000 hours
C04	Settings for infrared receiver of wired controller	00: Disable 01: Enable	01	When "Disable the infrared receiver of the wired controller" is on, the wired controller cannot receive remote control signal.
C05	Whether ambient temperature is displayed	00: No 01: Yes	00	Common IDU, V8 AHU-kit, and V8 FAPU is displayed. V6 FAPU and V6 AHU-kit : Subject to the unit type

Parameter Code	Parameter Name	Parameter Range		Default Value	Remarks
C06	LED indicator of wired controller	00: Off 01: On		01	When it is on, LED indicator shows the on/off state of the indoor unit. When it is off, LED indicator is off
C07	Wired controller Follow Me temperature calibration	Celsius: -5.0 to 5.0 Fahrenheit: -9.0 to 9.0		Celsius: -1.0 Fahrenheit: -2.0	Note: Accuracy is 0.5°C or 1°F
C08	Minimum cooling temperature	Model	Range	Default Value	
		Common V8 IDU	16°C to 30°C	16°C	
		Common V6 IDU (including V6 AC FAPU)	17°C to 30°C	17°C	
		V8 FAPU (Supply air temperature control)	13°C to 30°C	13°C	
		V8 FAPU (Room temperature control)	16°C to 30°C	16°C	
		V6 DC FAPU	13°C to 30°C	13°C	
		V8 AHU kit (Supply air temperature control)	10°C to 30°C	10°C	
		V8 AHU kit (Return air temperature control)	16°C to 30°C	16°C	
		V6 AHU kit (Supply air temperature control)	10°C to 30°C	10°C	
		V6 AHU kit (Return air temperature control)	17°C to 30°C	17°C	

Parameter Code	Parameter Name	Parameter Range		Default Value	Remarks
C09	Maximum cooling temperature	Model	Range	Default Value	The setting is valid only when the wired controller is connected to a V8 IDU.
		Common V8 IDU	16°C to 30°C	30°C	
		Common V6 IDU (including V6 AC FAPU)	N/A	N/A	
		V8 FAPU (Supply air temperature control)	13°C to 30°C	30°C	
		V8 FAPU (Room temperature control)	16°C to 30°C	30°C	
		V6 DC FAPU	N/A	N/A	
		V8 AHU kit (Supply air temperature control)	10°C to 30°C	30°C	
		V8 AHU kit (Return air temperature control)	16°C to 30°C	30°C	
		V6 AHU kit (Supply air temperature control)	N/A	N/A	
		V6 AHU kit (Return air temperature control)	N/A	N/A	

Parameter Code	Parameter Name	Parameter Range		Default Value	Remarks
C10	Minimum cooling temperature	Model	Range	Default Value	The setting is valid only when the wired controller is connected to a V8 IDU.
		Common V8 IDU	16°C to 30°C	16°C	
		Common V6 IDU (including V6 AC FAPU)	N/A	N/A	
		V8 FAPU (Supply air temperature control)	13°C to 30°C	13°C	
		V8 FAPU (Room temperature control)	16°C to 30°C	16°C	
		V6 DC FAPU	N/A	N/A	
		V8 AHU kit (Supply air temperature control)	10°C to 30°C	10°C	
		V8 AHU kit (Return air temperature control)	16°C to 30°C	16°C	
		V6 AHU kit (Supply air temperature control)	N/A	N/A	
		V6 AHU kit (Return air temperature control)	N/A	N/A	

Parameter Code	Parameter Name	Parameter Range		Default Value	Remarks
C11	Maximum heating temperature	Model	Range	Default Value	
		Common V8 IDU	16°C to 30°C	30°C	
		Common V6 IDU (including V6 AC FAPU)	N/A	N/A	
		V8 FAPU (Supply air temperature control)	13°C to 30°C	30°C	
		V8 FAPU (Room temperature control)	16°C to 30°C	30°C	
		V6 DC FAPU	N/A	N/A	
		V8 AHU kit (Supply air temperature control)	10°C to 30°C	30°C	
		V8 AHU kit (Return air temperature control)	16°C to 30°C	30°C	
		V6 AHU kit (Supply air temperature control)	N/A	N/A	
		V6 AHU kit (Return air temperature control)	N/A	N/A	
C12	0.5°C display setting	00/01		01	00: Without 0.5°C display 01: With 0.5°C display
C13	Wired controller button light setting	00/01		01	00: Off 01: On

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
C14	One click to deliver IDU parameter settings		01	The latest configuration parameters stored in the wired controller will be changed after power on for two hours or after configuration parameters of wired controller are changed. Note: 1: Applicable to one-to-one scenario 2: Only for 2nd generation IDU
C15	Whether buzzer of the wired controller rings	00/01	01	00: No 01: Yes
C16	Backlight on time	00/01/02	00	00: 15s 01: 30s 02: 60s
C17	Whether energy efficiency attenuation is displayed when the IDU is powered off	00/01	00	00: Disable 01: Enable The setting is valid only when the wired controller is connected to a V8 IDU.
C18	Whether IDU blockage is displayed when the IDU is powered off	00/01	00	00: Disable 01: Enable The setting is valid only when the wired controller is connected to a V8 IDU.

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks	
C19	T1 temperature source selection	F0/F1/F2/F3/##	F1(For Floor-standing unit : F0)	Applicable model (the setting is valid only when the wired controller is connected to a V8 IDU)	Only for the V8 FAPU, the value of C19 parameter cannot be set and T1 value is fixed to F1. For other models, the value of this parameter can be set.
				F0	T1 temperature sensor configured for the IDU
				F1	Follow Me T1 temperature sensor embedded in the wired controller
				F2	Second temperature sensor (reserved)
				F3	Ground temperature sensor (reserved)
				## (number of the IDU address)	T1 temperature sensor of other IDUs in the system (numbers of the IDU addresses: 00 to 63. If the wired controller is connected to multiple IDUs, the number of the main IDU address is displayed)
C20	Swing motor direction setting	00/01	00	00: Forward 01: Reverse	(The setting is valid only when the wired controller is connected to a common V8 IDU.)

5.5.5 Wired Controller Parameter Settings and Applicable IDU Models

Wired controller parameter settings	Common IDU		FAPU		AHU Kit	
	V6 series	V8 series	V6 series	V8 series	V6 series	V8 series
C00	√	√	√	√	√	√
C01	√	√	√	√	√	√
C02	√	×	√	×	√	×
C03	√	√	√	√	√	√
C04	√	√	√	√	√	√
C05	√	√	√	√	√	√
C06	√	√	√	√	√	√
C07	√	√	√	√	√	√
C08	√	√	√	√	√	√
C09	×	√	×	√	×	√
C10	×	√	×	√	×	√
C11	√	√	√	√	√	√
C12	√	√	√	√	√	√
C13	√	√	√	√	√	√
C14	√	×	√	×	√	×
C15	√	√	√	√	√	√
C16	√	√	√	√	√	√
C17	×	√	×	√	×	√
C18	×	√	×	√	×	√
C19	×	√	×	√	×	√
C20	×	√	×	×	×	×

5.5.6 IDU Parameter Settings (V6 Protocol)

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
N00	IDU static pressure	IDU static pressure: 00/01/02/03/04/05/06 /07/08/09/~/19/FF	FF	IDU static pressure is set based on the parameter value, FF (VRF unit: main board DIP of IDU; other models: reserved)
N01	Auto restart	00/01	01	00: No; 01: Yes
N02	IDU up/down swing	00/01	01	00: No; 01: Yes
N03	IDU left/right swing	00/01	01	00: No; 01: Yes
N04	infrared receiver of IDU display box	00/01	00	00: Enable 01: Disable
N05	Whether buzzer of the IDU rings	00/01	01	00: No 01: Yes
N06	Light (display box) setting	00/01	01	00: Off 01: On
N07	Temperature unit	00/01	00	00: Celsius; 01: Fahrenheit
N08	Mode switch interval in auto mode (min)	00/01/02/03	00	00: 15 minutes 01: 30 minutes 02: 60 minutes 03: 90 minutes
N10	Auxiliary heat source available for IDU (embedded electric heater)	00/01	01	00: No; 01: Yes
N11	Set outdoor temperature for auxiliary heat source/ alternative heat source to turn on	Celsius: -5 to 20 Fahrenheit: 23 to 68	15°C	Note: Accuracy is 1°C or 1°F

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
N16	Auxiliary heat source on/off	00/01/02	00	00: Auto; 01: Forced on; 02: Forced off
N17	IDU's anti-cold wind temperature setting in heating mode	00/01/02/03/FF	00	Common IDU: 00: 15°C/59°F 01: 20°C/68°F 02: 24°C/75°F 03: 26°C/79°F FF: Main board DIP of IDU FAPU: 00/01/02/03/FF AHU-kit: 00/01/02/03/FF Note: The temperature of FAPU and AHU-kit corresponding to 00/01/02/03 differs. For details, see the instructions.
N20	Fan speed in heating standby mode	00/01/14	00	00: Termal; 01: Speed 1; 14: Fan speed before entering standby mode
N21	Time to stop the fan of IDU in heating mode (Termal)	00/01/02/03/04/ FF	01	00: Fan on; 01: 4min; 02: 8min; 03: 12min; 04: 16min; FF: Main board DIP (stop the fan for Xmin; open the fan at speed 1 for 1min to detect the actual T1 temperature)
N22	EXV opening during heating standby	00/01/02	01	00: 56P; 01: 72P; 02: 00P; FF: IDU DIP
N23	Cooling return difference temperature	00/01/02/03/04	00	00: 1°C; 01: 2°C; 02: 0.5°C; 03: 1.5°C; 04: 2.5°C

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks					
N25	IDU heating temperature compensation	00/01/02/03/04	00	VRF unit: 00: 6°C/43°F 01: 2°C/36°F 02: 4°C/39°F 03: 6°C/43°F 04: 0°C/32°F FF: Main board DIP of IDU			Split unit and mini VRF unit: 00: 6°C/43°F 01: 2°C/36°F 02: 4°C/39°F 03: 8°C/46°F 04: 0°C/32°F FF: Reserved		
N26	IDU cooling temperature compensation	VRF unit: 00/01/FF Split unit: 00/01/02/03/FF Mini VRF unit: 00/01/02/03/04/FF	00	Parameter	00	01	02	03	04	FF
				VRF unit	0°C/ 32°F	2°C/ 36°F				
				Split unit	0°C/ 32°F	1°C/ 34°F	2°C/ 36°F	3°C/ 37°F		Reserved
				Mini VRF unit	0°C/ 32°F	1°C/ 34°F	2°C/ 36°F	3°C/ 37°F	-1°C/ 30°F	Reserved
N28	Maximum automatic fan speed in cooling mode	4/5/6/7	5	4: Speed 4; 5: Speed 5; 6: Speed 6; 7: Speed 7					
N29	Maximum automatic fan speed in heating mode	4/5/6/7	6	4: Speed 4; 5: Speed 5; 6: Speed 6; 7: Speed 7					
N30	Constant air flow selection	00/01	01	00: Constant speed; 01: Constant air flow					
N42	Sterilization	00/01	00	00: No sterilization (default); 01: Plasma Sterilization					
N43	Sterilization enabling method	01/02	02	01: On; 02: Off					
N44	Whether silent mode is enabled	00/01	00	00: Off; 01: On					
N45	ECO	00/01	00	0: Off; 01: On					

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
N46	Drying time at self-cleaning	0/1/2/3	00	0: 10 minutes; 1: 20 minutes; 2: 30 minutes; 3: 40 minutes
N57	On-site air flow adjustment factor	00/01	00	00: 1; 01: 1.1
N58	Initial static pressure detection	00/01	00	00: Not reset; 01: Reset
N61	Fresh air dry contact 1	00/01	00	A function of V6 FAPUs
N62	Fresh air dry contact 2	00/01	00	A function of V6 FAPUs
N63	Fresh air dry contact 3	00/01	00	A function of V6 FAPUs

5.5.7 IDU Parameter Settings (V8 Protocol)

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
N00	IDU static pressure	IDU static pressure: 00/01/02/03/04/05/06 /07/08/09/~/19	FF	The IDU sets the selected corresponding static pressure.
N01	Auto restart	00/01	01	00: No; 01: Yes
N02	IDU up/down swing setting	00/01/02/03/04	01	00: None 01: Available 02/03: Reserved 04: Q4/Qmin four air vents Note: The IDU can automatically identify up/ down swing, so this function is invalid
N03	IDU left/right swing setting	00/01	01	00: None 01: Available Note: The IDU can automatically identify up/ down swing, so this function is invalid

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
N04	Infrared receiver of IDU display box	00/01	00	00: Yes; 01: No
N05	Whether buzzer of the IDU rings	00/01/02	02	00: No; 01: Yes 02: Only the display box rings.
N06	Light (display box) setting	00/01	01	00: Off; 01: On
N07	Temperature unit	00/01	00	00: Celsius; 01: Fahrenheit
N08	Mode switch interval in auto mode (min)	00/01/02/03	00	00: 15 minutes; 01: 30 minutes; 02: 60 minutes; 03: 90 minutes
N09	Heating and cooling temperature difference setting in auto mode	00/01/02/03/04/05/06 /07/08	00	00: 0°C; 01: 1°C; 02: 2°C; 03: 3°C; 04: 4°C; 05: 5°C; 06: 6°C; 07: 7°C; 08: 8°C
N11	Set outdoor temperature for auxiliary heat source/ alternative heat source to turn on	Celsius: -25°C to 20°C Fahrenheit: -13°F to 68°F	0°C	Note: Accuracy is 1°C or 1°F
N12	Indoor temperature for auxiliary heat source/ alternative heat source to turn on	10°C to 30°C	24°C	Accurate to 1°C
N13	T1 temperature difference for auxiliary heat source/ alternative heat source to turn on	0-7	3	0 to 7 indicate 0 to 7°C/°F (The value is accurate to 1°C or 1°F.)
N14	T1 temperature difference when auxiliary heat source/ alternative heat source is off	0-10	5	0 to 10 indicate -4 to 6°C/°F. (The value is accurate to 1°C or 1°F.)
N15	Auxiliary heat source used alone	00/01	00	00: Disable; 01: Enable

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
N16	Auxiliary heat source on/off	00/01/02	00	00: Auto; 01: Forced on; 02: Forced off
N17	IDU's anti-cold wind temperature setting in heating mode	00/01/02/03/04	00	Common IDU: 0: 15; 1: 20; 2: 24; 3: 26; 04: Anti-cold wind disabled Fan coil unit: 00: 32°C; 01: 34°C; 02: 36°C; 03: 38°C; 04: anti-cold wind invalid
N18	Fan speed in cooling standby mode	00/01/02/03/04/05/06 /07/14	01	00: Fan off after a delay 01: Speed 1; 02: Speed 2 03: Speed 3; 04: Speed 4 05: Speed 5; 06: Speed 6 07: Speed 7; 14: Fan speed before entering standby mode
N19	Standby fan speed L1 range in dry mode	00/01/02/03	01	00: Fan off; 01: L1; 02: L2; 03: Speed 1
N20	Fan speed in heating standby mode	00/01/14	00	0: Termal; 1: Speed 1 14: Fixed to Speed 1
N21	Time to stop the fan of IDU in heating mode (Termal)	00/01/02/03/04	01	00: Stop the fan; 01: 4min; 02: 8min; 03: 12min; 04: 16min (stop the fan for Xmin; open the fan at speed 1 for 1min to detect the actual T1 temperature)
N22	EXV opening during heating standby	00/01/02/14	14	00: 56P; 01: 72P; 02: 00P; 14: Auto adjustment
N23	Cooling return difference temperature	00/01/02/03/04	00	00: 1°C; 01: 2°C; 02: 0.5°C; 03: 1.5°C; 04: 2.5°C
N24	Heating return difference temperature	00/01/02/03/04	00	00: 1°C; 01: 2°C; 02: 0.5°C; 03: 1.5°C; 04: 2.5°C
N25	IDU heating temperature compensation	00/01/02/03/04	00	00: 6°C 01: 2°C 02: 4°C 03: 8°C 04: 0°C
N26	IDU cooling temperature compensation	00/01/02/03/04	00	00: 0°C; 01: 1°C; 02: 2°C 03: 3°C; 04: -1°C

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
N27	Maximum indoor temperature drop D3 in dry mode	00/01/02/03/04	01	00: 03°C; 01: 04°C; 02: 05°C; 03: 06°C; 04: 07°C
N30	Constant air flow setting	00/01	01	00: Constant speed; 01: Constant air flow
N31	High ceiling	00/01/02	00	00: H≤3m; 01: 3<H≤4m; 02: 4<H≤4.5m; (H: IDU Mounting height)
N32	Q4/Q4min air outlet 1 setting	00/01	00	00: Free control; 01: Close
N33	Q4/Q4min air outlet 2 setting	00/01	00	00: Free control; 01: Close
N34	Q4/Q4min air outlet 3 setting	00/01	00	00: Free control; 01: Close
N35	Q4/Q4min air outlet 4 setting	00/01	00	00: Free control; 01: Close
N37	One-to-more of wired controller enabled	00/01	00	00: No; 01: Yes
N38	Remote On/Off port logic of the IDU	00/01	00	00: Remote off (closed); 01: Remote off (open) Note: When powered off remotely, the digital display of wired controller of V8 displays d6, while that of V6 does not display this code
N39	Remote OFF delay settings	00/01/.../06	00	00: No delay; 01: Delayed 1 minutes; 02: 2 minutes; 03: 3 minutes; 04: 4 minutes; 05: 5 minutes; 06: 10 minutes
N40	Alarm port logic	00/01	00	00: Alarm when closed; 01: Alarm when open
N41	Powerful operation	00/01	00	00: Off; 01: On
N42	Sterilization	00/01	00	00: No sterilization (default); 01: Sterilization
N43	Sterilization enabling method	00/01/02	00	00: Auto; 01: Forced on; 02: Forced off
N44	Whether silent mode is enabled	00/01	00	00: Off; 01: On

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
N45	ECO	00/01	00	00: Off; 01: On
N46	Drying time at self-cleaning	0/1/2/3	0	0: 10 minutes; 1: 20 minutes; 2: 30 minutes; 3: 40 minutes
N47	Mildew-proof fan operation duration (power off in cooling/ dry mode, except power off due to faults)	00/01/02/03	00	00: 40s; 01: 120s; 02: 300s; 03: 600s
N48	Dirt proof for ceiling	00/01	00	00: Invalid, 01: Valid
N49	Condensation proof	00/01	00	00: Invalid, 01: Valid
N50	Human sensor	00/01/02	01	00: Invalid; 01: Used to adjust the set temperature when unattended; 02: Used to turn off the unit when unattended
N51	Setting temperature adjustment interval when unattended	00/01/02/03/04/05	00	00: 15 minutes 01: 30 minutes 02: 45 minutes 03: 60 minutes 04: 90 minutes 05: 120 minutes
N52	Setting maximum temperature adjustment when unattended	00/01/02/03	03	00: 1°C 01: 2°C 02: 3°C 03: 4°C
N53	Stop delay when unattended	00/01/02/03/04/05	01	00: 15 minutes 01: 30 minutes 02: 45 minutes 03: 60 minutes 04: 90 minutes 05: 120 minutes
N54	Enabling IDU energy-saving function	00/01	01	00: Off; 01: On

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
N55	ETA level of cooling	00/01/02	00	00: Level 1; 01: Level 2; 02: Level 3
N56	ETA level of heating	00/01/02	00	00: Level 1; 01: Level 2; 02: Level 3
N57	On-site air flow adjustment factor	00/01/02/03/04/05/06: 0.85	00	00: 1; 01: 1.05; 02: 1.1; 03: 1.15; 04: 0.95; 05: 0.9;
N58	Initial static pressure detection	00/01	00	00: Not reset; 01: Reset
N59	Filter ending - initial static pressure setting	00/01/.../19	00	00: 10 Pa; 01: 20 Pa; 02: 30 Pa ; 19: 200 Pa
N60	Ambient temperature when preheating is turned on	00/01/02	00	00: 5°C; 01: 0°C; 02: -5°C
N61	Fresh air dry contact 1	00/01	00	00: Disconnected 01: Connected Note: Applicable to FAPU only
N62	Fresh air dry contact 2	00/01	00	00: Disconnected 01: Connected Note: Applicable to FAPU only
N63	Fresh air dry contact 3	00/01	00	00: Disconnected 01: Connected Note: Applicable to FAPU only
N64	Whether to open valve when the fan coil unit works in heating mode	00/01	00	00: Open the value in heating mode; 01: Do not open the value in heating mode Note: Applicable to fan coil unit only
N65	Fan coil unit's anti-hot wind temperature setting in cooling mode	00/01/02/03/04	00	00: 0°C; 01: -2°C; 02: -4°C; 03: -6°C; 04: Invalid anti-hot wind Note: Applicable to fan coil unit only
N66	Auto Dry	00/01	00	00: Valid (default) 01: Valid Note: Applicable to cooling operation in cooling mode or auto mode
N67	Target relative humidity of Auto Dry	40%/41%/42%/ .../70%	65%	
N68	Refrigerant leakage fault reset	00/01	00	00: Not reset 01: Reset

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
N69	Target humidity for third-party dehumidifiers	35%/36%/37%/.../75%	65%	
N70	Target humidity for third-party humidifiers	35%/36%/37%/.../75%	65%	
N71	IDU control type	01/02	01	Valid to V8 FAPU 01: Supply air temperature control 02: Room temperature control.
N72	Minimum temperature settings of cooling operating range	00/01/02/03/04/05/06/07	00	Valid to V8 FAPU.
N73	Maximum temperature settings of heating operating range	00/01/02/03/04/05/06/07	00	Valid to V8 FAPU.
N74	Anti-cold wind temperature setting of special IDUs	00/01/02/03/04	00	00/01/02/03: corresponds to different values; 04: Anti-cold wind disabled
N75	IDU operating mode setting if the IDU is shut down remotely	00/01	00	00: After the remote shutdown signal is canceled, the IDU runs in the preset mode or based on the command that is received during shutdown period. The preset mode is the mode set before the remote shutdown signal is triggered. 01: After the remote shutdown signal is canceled, the IDU is shut down.

5.5.8 IDU Parameter Settings and Applicable IDU Models

Wired controller parameter settings	Common IDU		FAPU		AHU Kit	
	V6 series	V8 series	V6 series	V8 series	V6 series	V8 series
N00	√	√	√	√	×	×
N01	√	√	√	√	√	√
N02	√	√	×	×	×	×
N03	√	√	×	×	×	×
N04	√	√	√	√	√	√
N05	√	√	√	√	√	√
N06	√	√	√	√	√	√
N07	√	√	√	√	√	√
N08	√	√	×	√	×	Supply air control √
						Return air control √
N09	×	√	×	Supply air control ×	×	√
				Room control √		
N10	√	×	×	×	×	×
N11	√	√	×	√	×	√
N12	×	√	×	√	×	√
N13	×	√	×	√	×	√
N14	×	√	×	√	×	√
N15	×	√	×	√	×	√
N16	√	√	×	√	×	√
N17	√	√	√	×	√	×
N18	×	√	×	√	×	√
N19	×	√	×	×	×	√
N20	√	√	×	√	√	√

Wired controller parameter settings	Common IDU		FAPU			AHU Kit		
	V6 series	V8 series	V6 series	V8 series		V6 series	V8 series	
N21	√	√	×	×		×	√	
N22	√	√	√	√		×	√	
N23	√	√	×	Supply air control	×	×	Supply air control	×
				Room control	√		Return air control	√
N24	×	√	×	Supply air control	×	×	Supply air control	×
				Room control	√		Return air control	√
N25	√	√	×	×		×	×	
N26	√	√	×	×		×	×	
N27	×	√	×	√		×	√	
N28	√	×	×	×		×	×	
N29	√	×	×	×		×	×	
N30	√	√	√	√		×	×	
N31	×	√	×	×		×	×	
N32	×	Valid only to Q4/Q4min models	×	×		×	×	
N33	×		×	×		×	×	
N34	×		×	×		×	×	
N35	×		×	×		×	×	
N37	×	√	×	√		×	√	
N38	×	√	×	√		×	√	
N39	×	√	×	√		×	√	
N40	×	√	×	√		×	√	
N41	×	√	×	×		×	Supply air control	×
							Return air control	√

Wired controller parameter settings	Common IDU		FAPU		AHU Kit	
	V6 series	V8 series	V6 series	V8 series	V6 series	V8 series
N42	√	√	√	√	×	√
N43	√	√	√	√	×	√
N44	√	√	×	×	Supply air control × / Return air control √	√
N45	√	√	×	×	Supply air control × / Return air control √	Supply air control × / Return air control √
N46	√	√	×	×	×	×
N47	×	√	×	×	×	×
N48	×	√	×	×	×	×
N49	×	√	×	×	×	×
N50	×	√	×	×	×	×
N51	×	√	×	√	×	×
N52	×	√	×	√	×	×
N53	×	√	×	√	×	×
N54	×	√	×	×	×	×
N55	×	√	×	×	×	×
N56	×	√	×	×	×	×
N57	√	√	×	√	×	×
N58	√	√	×	√	×	×
N59	×	√	×	√	×	×
N60	×	√	×	√	×	√
N61	×	×	√	×	×	×
N62	×	×	√	×	×	×
N63	×	×	√	×	×	×

Wired controller parameter settings	Common IDU		FAPU		AHU Kit	
	V6 series	V8 series	V6 series	V8 series	V6 series	V8 series
N64	×	×	×	×	×	×
N65	×	×	×	×	×	×
N66	×	√	×	×	×	×
N67	×	√	×	×	×	×
N68	×	√	×	√	×	√
N69	×	√	×	√	×	√
N70	×	√	×	√	×	√
N71	×	×	×	√	×	×
N72	×	×	×	√	×	×
N73	×	×	×	√	×	×
N74	×	×	×	√	×	√
N75	×	√	×	√	×	√

5.5.9 Parameter Settings for ODU

Parameter Code	Parameter Name	Parameter Range	Default Value	Remarks
U0	Energy rating of ODU	40-100%, every 1%	100%	
U1	Silence level of ODU	00/01/…/14	00	Level 0-14
U2	VIP indoor unit address	0~63	0xFF	When more than one unit is controlled by one wired controller, the controller can only set the IDU physically connected to it to be the VIP IDU.
U3	Heating and air supply enabled at the same time	00/01	00	00: Off 01: On
U4	System priority mode	00/01/…/09	00	00: Automatic priority mode 01: Cooling priority mode 02: VIP indoor unit + voting priority mode(Address of VIP indoor unit will be sent at the same time) 03: In response to heating only mode 04: In response to cooling only mode 05: Heating priority mode 06: Change over(Address of VIP indoor unit wil be sent at the same time) 07: Voting priority mode 08: First on priority mode 09: Capability requirements priority mode Note: When the mode priority be activated on the controller, the connected indoor unit (the master indoor unit in gorup when group control is activated) will be set as a VIP indoor unit.

ℹ️ **INFORMATION**

The parameter settings of the main and secondary wired controllers are mutually independent, and do not affect each other. Parameters of IDU and ODU cannot be set via the secondary wired controller.

5.5.10 Query Operations of Wired Controller

Parameters

Check No.
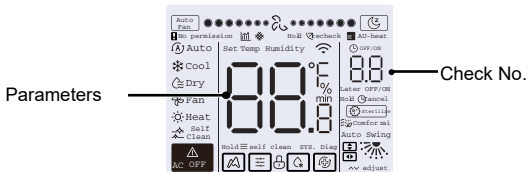
- On the home screen, press and hold "≡" and "∧" at the same time for two seconds to enter the query interface, and u00-u03 indicates ODUs, n00-n74 indicates IDUs, and CC indicates the wired controller. Press "∧" and "∨" to switch the parameter code. Press "Swing" to enter the parameter query page.
- Press "⊕" to exit the query page. The parameter query page automatically closes if no button is pressed within the next 60 seconds.
- Press "∧" or "∨" to query he parameters, and the parameters can be queried cyclically.
- On the top of the query page, the "Timing area" displays the check list serial number, and the "Temperature area" displays the check list parameters.
- Check list query information is listed as follows: Information may vary depending on unit model. Check list of parameters applies to VRF units and mini VRF units of V6 (including IDUs and ODUs), inverter split of V6 (including IDUs and ODUs), as well as IDUs and ODUs of V8 only.

Check list content:
1. Query of wired controller address

Parameter Code	Parameter Name	Remarks
1	Query of active IDU addresses for wired controller (one-to-more)	Each address is displayed for 1.5s. Addresses are alternatively displayed. To clear historical addresses, restore the wired controller to factory settings.
2	Historical record query of IDU addresses for wired controller (one-to-more)	
3	Wired controller program version No.	
4	Packet loss rate display	Display content (displayed every 2 seconds in sequence): Cooling+ value: indicates a 5-digit increase in the number of sending times Drying+numerical value: indicates a 5-digit decrease in the number of sending times Fan+numerical value: indicates a 5-digit increase in the number of receiving times Heating+numerical value: indicates a 5-digit decrease in the number of receiving times

2. 2nd generation IDU check list

NO.	V6 VRF unit	V6 mini VRF unit	Inverter split
1	IDU address	IDU address	IDU address(00)
2	Capacity HP of IDU	Capacity HP of IDU	IDU capacity (kW)
3	Indoor unit network address	Indoor unit network address	IDU network address (00)
4	Actual set temperature Ts	Actual set temperature Ts	Current set temperature
5	Actual T1 indoor temperature	Actual T1 indoor temperature	Indoor ambient temperature T1
6	Actual T2 indoor temperature	Actual T2 indoor temperature	Indoor pipe temperature T2
7	Actual T2A indoor temperature	Actual T2A indoor temperature	--
8	Actual T2B indoor temperature	Actual T2B indoor temperature	--
9	Temperature of FAPU, Ta	Temperature of FAPU, Ta	--
10	Compressor discharge temperature	Compressor discharge temperature	Compressor discharge temperature
11	Target superheat	Target superheat	--
12	EXV opening (actual opening/8)	EXV opening (actual opening/8)	--
13	Software version No.	Software version No.	Software version No.
14	Error code	Error code	Error code

3. V8 IDU Spot Check Items

No.	Check item for V8 IDU	Check item for V8 FAPU	Check item for V8 AHU Kit
1	IDU and ODU communication address	IDU and ODU communication address	IDU and ODU communication address
2	Capacity HP of IDU	Capacity HP of IDU	Capacity HP of IDU
3	Actual set temperature Ts	Actual set temperature Ts	Actual set temperature Ts
4	Current running set temperature Ts	Current running set temperature Ts	Current running set temperature Ts
5	Actual T1 indoor temperature	Actual T0 temperature	T0 temperature (supply air temperature control) or T1 temperature (return air temperature control)
6	Modified indoor temperature T1_modify	Modified indoor temperature T1_modify	Modified indoor temperature T1_modify
7	T2 heat exchanger intermediate temperature	T2 heat exchanger intermediate temperature	T2 heat exchanger intermediate temperature
8	T2A heat exchanger liquid pipe temperature	T2A heat exchanger liquid pipe temperature	T2A heat exchanger liquid pipe temperature
9	T2B heat exchanger gas pipe temperature	T2B heat exchanger gas pipe temperature	T2B heat exchanger gas pipe temperature
10	Actual set humidity RHs	Actual set humidity RHs	Actual set humidity RHs
11	Actual RH indoor humidity	Actual RH indoor humidity	Actual RH indoor humidity
12	[– – –] is displayed	Actual TA-supply air temperature	Actual TA-supply air temperature
13	Air discharge pipe temperature	Air discharge pipe temperature	Air discharge pipe temperature
14	Compressor discharge temperature	Compressor discharge temperature	Compressor discharge temperature
15	Target overheating (system)	Target overheating (system)	Target overheating (system)
16	EXV opening (actual opening/8)	EXV opening (actual opening/8)	EXV opening (actual opening/8)
17	Software version No.	Main control software version No. for FAPU	Main control software version No.
18	Historical error code (recent)	Historical error code (recent)	Historical error code (recent)
19	Historical error code (sub-recent)	Historical error code (sub-recent)	Historical error code (sub-recent)
20	Fan drive version No.	Fan drive version No.	[000] is displayed
21	[– – –] is displayed	[– – –] is displayed	[– – –] is displayed

4. ODU check list

Display	V6 VRF unit	V6 mini VRF unit	Inverter split	V8 VRF unit	Description
1	ODU address	ODU address	ODU address (00) Unit capacity	ODU address	0 to 3
2	Unit capacity	Unit capacity	Number of ODUs	ODU capacity	Unit: HP
3	Number of ODUs	Number of ODUs		ODU Qty	1 to 4
4	--	--	--	IDU Qty settings	
5	ODU capacity demand	ODU capacity demand	ODU load target	ODU capacity demand	Only displayed on the master unit, while the slave unit displays 0.
6	Compressor 1 frequency	Compressor 1 frequency	Operating frequency	Actual frequency of compressor 1	Actual Frequency
7	Compressor 2 frequency	--	--	Actual frequency of compressor 2	Actual Frequency
8	Operating mode	Operating mode	Operating mode	Operating mode	0: Off
					2: Cool
					3: Heat
					5: Hybrid cooling
					6: Hybrid heating
9	Mode priority	Priority mode	--	--	
10	Speed of DC fan A/A1	Operating fan speed	Operating speed of DC fan	Fan speed 1	Fan speed
11	Speed of DC fan B/B1			Fan speed 2	Fan speed
12	T2 average temperature (corrected)	T2 average temperature (corrected)	Indoor pipe temperature	T2 average	Actual temperature
13	T2B average temperature (corrected)	T2B average temperature (corrected)	Indoor pipe temperature	T2B average	Actual temperature
14	T3 condenser tube temperature	T3 tube temperature	Outdoor pipe temperature T3	T3	Actual temperature

Display	V6 VRF unit	V6 mini VRF unit	Inverter split	V8 VRF unit	Description
15	T4 ambient temperature	T4 ambient temperature	Outdoor ambient temperature	T4	Actual temperature
16	--	--	--	T5	Actual temperature
17	T6A plate heat exchanger inlet temperature	--	--	T6A	Actual temperature
18	T6B plate heat exchanger outlet temperature	--	--	T6B	Actual temperature
19	Inverter compressor A discharge temperature	T5 discharge temperature	Discharge temperature	T7C1	Actual temperature
20	Inverter compressor B discharge temperature	--	--	T7C2	Actual temperature
21	--	--	--	T71	Actual temperature
22	--	--	--	T72	Actual temperature
23	--	--	--	T8	Actual temperature
24	Tf1 inverter module A temperature	Tf module temperature	--	Ntc	Actual temperature
25	Tf2 inverter module B temperature (reserved)	--	--		
26	--	--	--	T9	Actual temperature
27	--	TL refrigerant cooling pipe temperature	--	TL	Actual temperature
28	System discharge superheat degree	--	--	Discharge superheat degree	Actual temperature
29	--	--	--	Primary current	
30	Inverter compressor A current	Actual current value	Current value	Compressor 1 current	Actual current
31	Inverter compressor B current	--	--	Compressor 2 current	

Display	V6 VRF unit	V6 mini VRF unit	Inverter split	V8 VRF unit	Description
32	Opening of electronic expansion valve A	EXV Opening	Expansion valve opening	EXVA opening	V6 VRF unit: opening = displayed value × 4 V6 mini VRF unit: opening = displayed value × 8 Inverter split: opening = displayed value × 8
	Opening of electronic expansion valve B	--	--	EXVB opening	V8 VRF unit: opening = displayed value × 24
34	Opening of electronic expansion valve C	--	--	EXVC opening	Opening = Displayed value × 4
	--			EXVD opening	
36	High pressure of system	--	--	High pressure	Pressure = Displayed value / 100
37	Low pressure of the system (reserved)	--	--	Low pressure	Pressure = Displayed value / 100
38	--	--	--	Online IDU Qty	/
39	Number of indoor units running (in the case of virtual addresses, this is the number of units with the virtual addresses included)	Running IDU Qty		Running IDU Qty	Actual Qty
40	VIP indoor unit address	VIP indoor unit address		/	
41	--	--		Heat exchanger status	0: Heat exchanger off
	--	--			1: C1
	--	--			2: D1
	--	--			3: D2
	--	--			4: E1
	--	--			5: F1
					6: F2

Display	V6 VRF unit	V6 mini VRF unit	Inverter split	V8 VRF unit	Description
42	--	--		System startup status	[0] No special mode
	--	--			[1] Oil return
	--	--			[2] Defrosting
	--	--			[3] Start
	--	--			[4] Stop
	--	--			[5] Quick inspection
	--	--			[6] Self-cleaning
43	--	--		Silent settings	0 to 14 correspond to the noise level
44	--	--	--	Static pressure settings	0: 0Pa
	--	--	--		1: 20Pa
	--	--	--		2: 40Pa
	--	--	--		3: 60Pa
	--	--	--		4: 80Pa
	--	--	--		5: 100Pa
	--	--	--		6: 120Pa
45	--	--	--	TES	Actual temperature
46	--	--	--	TCS	Displayed value -25
47	--	--	--	DC voltage	Actual voltage = Displayed value × 10
48	--	--	--	AC voltage	Actual voltage = Displayed value × 2
49	--	--	--	ODU blockage	0 to 10
50	Program version No.	Program version No.	--	Software version	
51	Last malfunction	Last error or protection code	--	Last malfunction	

5.5.9 Error display

Error code — (pointing to temperature area)

IDU and ODU address — (pointing to timer area)
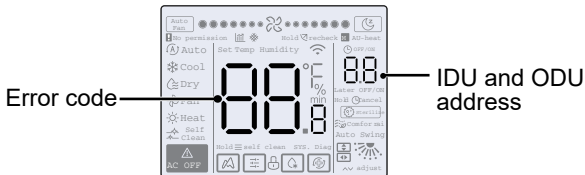
- When a communication fault occurs between the wired controller and any of the IDUs, the wired controller reports "C51". If an IDU has no address, the wired controller of V8 system displays "U38".

- In case an IDU fails, the address of the IDU is displayed in the timer area and the fault code displayed in the temperature area. In case an ODU fails, the address of the ODU is displayed in the timer area and the fault code displayed in the temperature area.

- Notify the distributor of the error code. Do not disassemble, modify or repair the IDU without authorization.

Code and Error Explanation about wire controller.

Code	Explanation
C51	Communication failure between indoor unit and wire controller
C76	Master slave wire control communication error
E31	Wire controller temperature sensor fault

● For Code and Error Explanation about IDU and ODU, please refer to the instruction manual of IDU and ODU.

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