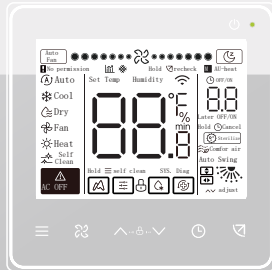


INSTALLATION & OWNER'S MANUAL

Wired Controller
NC-86S



Original instructions.

Please read this manual carefully and keep it for future reference.
All the pictures in this manual are for illustrations purpose only.

- 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	01
• 1.1 About the documentation	01
• 1.2 For the user	02
2 BASIC PARAMETERS	04
3 ACCESSORIES LIST	04
4 INSTALLATION INSTRUCTIONS	05
• 4.1 Installation Precautions	05
• 4.2 Installation Method	06

5 OPERATION INSTRUCTIONS	13
• 5.1 Product Features	13
• 5.2 Product Overview	14
• 5.3 Operation Instructions	15
• 5.4 Project Commissioning	21

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 Safety sign

CAUTION

Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

NOTE

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

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	DC 18 V
Wiring size	RVVP-0.75 mm ² × 2
Operating environment	-5 °C to 43 °C
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	Rear Cover of the wired controller	1
6	Round head screw ST4 X 20	3
7	Plastic expansion pipe	3

4 Installation Instructions

4.1 Installation Precautions

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

CAUTION

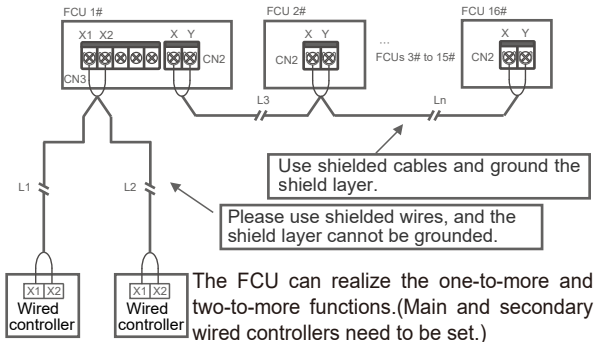
- The controller must be installed by qualified technicians designated by the local dealer or service agent. Do not install it by yourself.
- Do not knock, throw, or disassemble the unit.
- The wiring must be compatible with the current of the wired controller.
- Use the specified cables, and do not place heavy objects on the terminal block.
- The wired controller line is a low-voltage circuit, which cannot come into direct contact with any high-voltage line or share the same wiring tube with any high-voltage line.
The minimum spacing of wiring tubes should be 300 to 500 mm.
- Do not install the controller in corrosive, flammable, or explosive environments or in places with oil mist (such as a kitchen).
- Do not install the wired controller in a damp place. Keep it out of 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 system

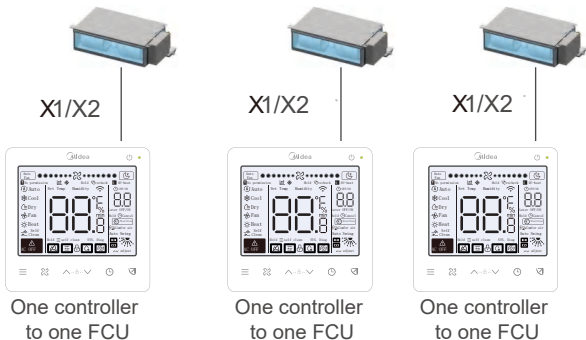


NOTE

One-to-more and two-to-more function can only be achieved on FCUs equipped with T1 temperature sensors.

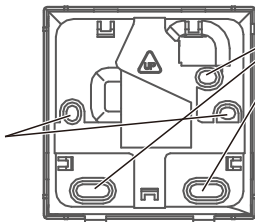
One-to-one system

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



4.2.2 Installation of rear cover of the wired controller

Screw hole installed on 86 Electrical Box, use two Philips head screw, M4×25

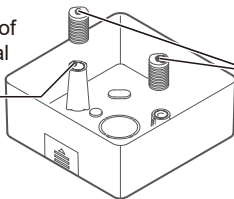


Screw hole installed on the wall Use three round head screw ST4X20 and plastic expansion pipe

When installed on 86 Electrical Box:

Adjust the lengths of the two plastic support bars in the accessory package. Ensure that the Rear Cover of the wired controller stays level with the wall when installed on the screw post of Electrical Box.

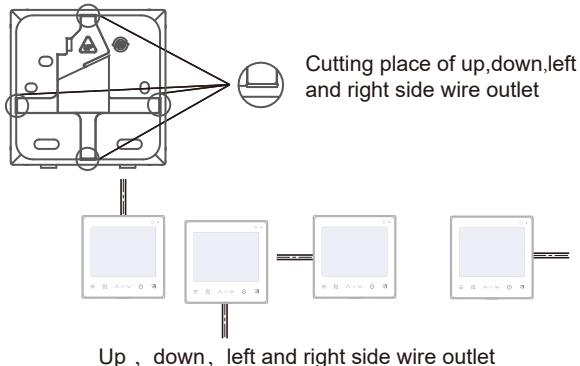
Screw post of the Electrical Box



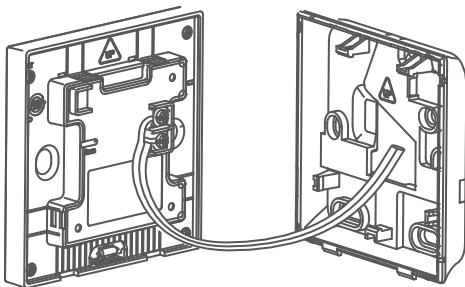
adjust the lengths of the two plastic support bars

When installed on the wall:

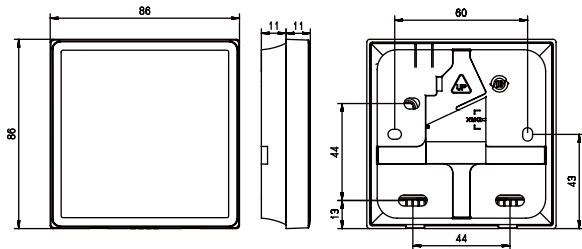
The wire can be placed outlet or inside. Wire outlet have four side to select.



4.2.3 Lead the 2-core shielded cable through the wiring hole in the Rear Cover of the wired controller, and use screws to reliably fasten the shielded cable onto terminals X1 and X2. Then fix the Rear Cover of the wired controller onto the Electrical Box by using pan head screws.



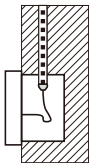
Installation Dimensions:



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.

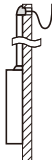
Do not overtighten the pan head screws; otherwise, the Rear Cover of the wired controller may deform and cannot be levelled on the wall surface, which makes it difficult to install or not securely installed.



86 Electrician
box



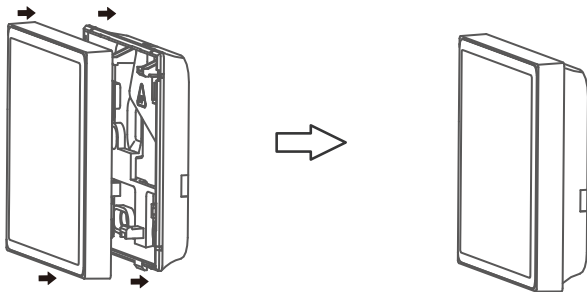
Wire
inside



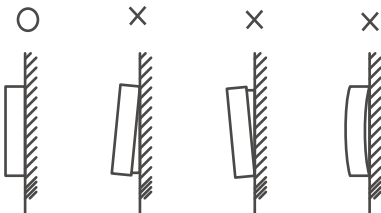
Wire
outlet

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

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 Rear Cover.

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

5 Operating Instructions

5.1 Product Features



Swing



Sleep mode

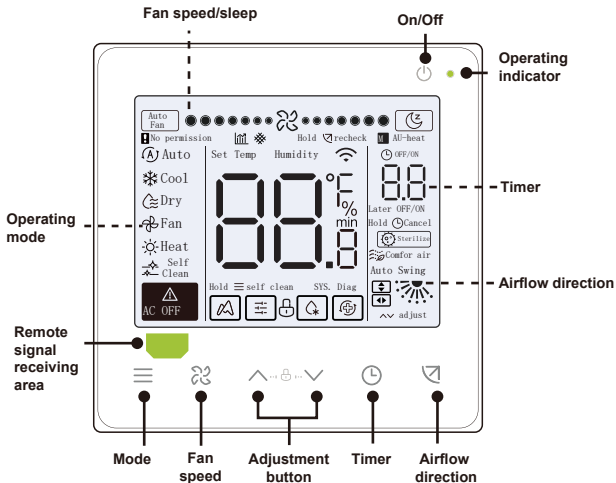


Timer function



Child lock

5.2 Product Overview



5.3 Operation Instructions

1 On/Off

Press "  " to turn on or off the FCU.



NOTE

- The screen and operating indicator get dimmed when the unit is powered off.
-  The icon is displayed when the FCU is off.

2 Mode selection

Each time "  " is pressed, the operating mode changes according to the order shown below (Auto mode is specific to some models):



3 Set temperature

Except in Fan mode, press "  " or "  " to adjust the indoor set temperature. Holding the button can rapidly increase or decrease the temperature value.



4 Fan speed and airflow direction setting

1 Adjust fan speed

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



CAUTION

- 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.
- With efficiency ensured, the FCU may adjust the fan speed depending on the indoor temperature, leading to a difference between the real-time speed and the set speed, or causing the fan to stop. This is normal.
- After the fan speed is set, it takes time for the FCU to respond. It is normal if the FCU does not respond to the setting immediately.

2 Set swing

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



CAUTION

- It applies to FCUs containing electric air outlet panels.
- When the unit is off, the wired controller automatically shuts the louvers of the air outlet.

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

After "↙" is pressed, "↕" lights up, and the up/down swing icon flashes at 2 Hz. Press "∧" and "∨" to change the angle, and a code is sent after 0.5 s. After "↙" is pressed again, "↔" lights up, and the left/right swing icon flashes at 2 Hz. Press "∧" and "∨" to change the angle, and a code is sent after 0.5 s. Then, press "↙" to exit swing angle setting. The interface displays the set up and down angle. At this time, "↕" is lighted and "↔" is dimmed.

5 Timer settings

1 Timer On setting:



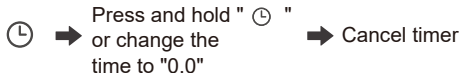
By pressing "⌚" or if no operation is performed for 5 s, the timer is confirmed.

2 Timer Off setting:



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

3 Cancelling timer:

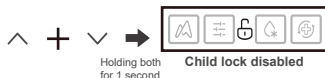


6 Child lock setting

1 Enable child lock



2 Disable child lock



7 Filter reminder

This feature records the operating time of the FCU. When the time reaches the target value, the wired controller will display a prompt to remind users to clean or replace the dirty filter.

- "  " and  flash on the wired controller. After the filter is cleaned or replaced, long press Swing for 3 s and flashing stops.

8 Sterilize mode

It only works with an FCU containing a sterilization module.



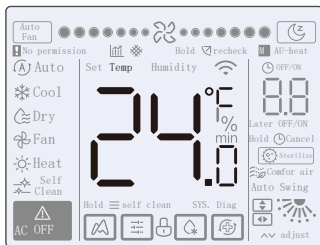
NOTE

On the engineering setting 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 FCU 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.

9 Indoor temperature display



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

14 Functions of the main/secondary wired controller

- When two wired controllers control one FCU 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 FCU parameters.

5.4 Project Commissioning

5.4.1 Restore factory settings

Holding "⌘", "⌚" and "↶" at the same time for 5 seconds can restart and reset the wired controller to factory settings.

5.4.2 FCU address query

- If the FCU has no address, the wired controller will display U38 error. Press and hold "∧" and "⌚" at the same time for 5s to enter the FCU 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 FCU has an address.

- Addresses can be set to allow control of one FCU by one controller or two controllers (can be set with the main wired controller, not any secondary wired controller). Press and hold "⌚" and "∧" for 5 s to enter the FCU address query and setting interface. Then, press "↗" and the number area begins flashing. Press "∧" and "∨" to change the address and press "↗" to confirm your change. 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.

NOTE

In the address query and setting state, the wired controller does not respond to or forward any remote control signal.

5.4.3 Parameter settings of the wired controller

- Parameters can be set while the unit is powered on or powered off.
- On the main page, hold "↗" and "≡" at the same time for 2 s to enter the parameter setting interface.
- After entering the parameter setting interface, the ODU displays u00 (unrelated to fan coil unit), the FCU displays n00-n63, and the wired controller displays CC. Press "∧" and "∨" to switch the parameter code. Select the parameter that you want to set according to the Table of Parameter Settings. Press "Swing" to enter the parameter

setting interface, press " ^ " and " \ " to change the parameter value, and press " " to save the change and complete parameter settings.

- Press the " " button to return to the previous page until exiting the parameter setting or the parameter setting will automatically exit if no operations are performed for 60 s.
- 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 "Swing".

Parameter code	Parameter name	Parameter range	Default value	Remarks
C00	Main and secondary wired controller setting	0 indicates the mainwired controller and 1 indicates a secondary wiredcontroller	0	If two wired controllers control one FCU,addresses for two wired controllers must be different. You are notallowed to set FCU 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	Power failure memory function setting for the wired controller	00: No 01: Yes	00	
C03	Time to remind users to clean the filter on the wired controller	00/01/02/ 03/04	01	00: No reminder to clean filter 01: 500 h 02: 1000 h 03: 2500 h 04: 5000 h

Parameter code	Parameter name	Parameter range	Default value	Remarks
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 indoor ambient temperature is displayed	00: No 01: Yes	00	
C06	LED indicator of wired controller	00: Off 01: On	01	When it is on, LED indicator displays the on/off state of the FCU. When it is off, LED indicator is off.
C07	Wired controller Follow Me temperature calibration	-5.0 °C to 5.0 °C	Celsius: -1.0	
C08	Lower limit of cooling temperature	17 °C to 30 °C	17 °C	
C09	Upper limit of cooling temperature	17 °C to 30 °C	30 °C	
C10	Lower limit of heating temperature	17 °C to 30 °C	17 °C	

Parameter code	Parameter name	Parameter range	Default value	Remarks
C11	Upper limit of heating temperature	17 °C to 30 °C	30 °C	
C12	Accurate to 0.5 °C	00/01	01	00: No 01: Yes
C13	Wired controller button light setting	00/01	01	00: Off 01: On
C14	Send configuration parameters stored when the wired controller is powered	00/01/02/03/04	01	(reserved)
C15	Whether buzzer of the wired controller rings	00/01	01	00: No 01: Yes
C16	Backlight time	00/01/02	00	00: 15 s 01: 30 s 02: 60 s
C17	Whether energy efficiency attenuation is displayed when power off	00/01	00	(reserved)
C18	Whether FCU blockage is displayed when power off	00/01	00	(reserved)

Parameter code	Parameter name	Parameter range	Default value	Remarks
C19	T1 temperature selection	F0/F1/F2/F3/... #FCU	F1	F0: T1 temperature sensor F1: Follow Me, #FCU (FCUs connected to the system, ranging from 0 to 63) (Note: The secondary wired controller does not respond to Follow Me) F2: (reserved) F3: (reserved)
C20	Swing direction setting	00/01	00	00: Forward (default) 01: Reverse

5.4.4 FCU parameter setting

Parameter code	Parameter name	Parameter range	Default value	Remarks
N00	Static pressure of FCU	FCU static pressure gear: 00/01/02/03/04/ 05/06/07/08/09/ ~/19	FF	The FCU sets the selected corresponding static pressure for DIP
N01	Does the FCU have memory for power failure	00/01	01	00: No 01: Yes
N02	Whether the FCU has up/down swing?	00/01/02/03/04	01	no setup

Parameter code	Parameter name	Parameter range	Default value	Remarks
N03	Whether the FCU has left/right swing?	00/01	01	no setup
N04	Whether the display board of FCU receives remote control signals	00/01	00	00: Yes 01: No
N05	Buzzer of the FCU rings?	00/01/02	02	00: No 01: Yes 02: Display panel only
N06	Light (display panel) setting	00/01	01	00: Off 01: On
N07	Temperature unit	00/01	00	00: Celsius 01: Fahrenheit
N08	Mode changeover time interval in the auto mode (min)	00/01/02/03	00	(reserved)
N11	Set outdoor temperature value when auxiliary heater is on	-25 °C to +20 °C	0 °C	(reserved)
N12	Indoor temperature when auxiliary heater is on	10 °C to 30 °C	24 °C	(Accurate to 1 °C)

Parameter code	Parameter name	Parameter range	Default value	Remarks
N13	T1 temperature difference when auxiliary heater is on	0-7	6	0-7 indicate 0 °C to 7 °C (Accurate to 1 °C)
N14	T1 temperature difference when auxiliary heater is off	0-10	5	0-10 indicate -4 °C to +6 °C (Accurate to 1 °C)
N15	Auxiliary heater on/off	00/01/02	00	00: Auto 01: (reserved) 02: (reserved)
N17	FCU's anti-cold wind temperature in heating mode	00/01/02/03/04	00	Fan coil unit: 00: 32 °C, 01: 34 °C, 02: 36 °C, 03: 38 °C, 04: anti-cold wind invalid
N18	Fan speed setting in cooling standby mode	00/01/02/03/04/05/06/07/14	01	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 going to standby mode
N19	Standby fan speed L1 range in dry mode	00/01/02/03	01	(reserved)

Parameter code	Parameter name	Parameter range	Default value	Remarks
N20	Fan speed setting in heating standby mode	0/1/14	0	0: Ternal 1: Speed 1 14: Fan speed before going to standby mode
N21	Time to stop the fan of FCU (Ternal)	00/01/02/03/04	01	00: stop 01: 4 min 02: 8 min 03: 12 min 04: 16 min
N22	EXV opening selection during heating standby	00/01/02/14	14	(reserved)
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	FCU heating temperature compensation	00/01/02/03/04	00	00: 6 °C 01: 2 °C 02: 4 °C 03: 8 °C 04: 0 °C

Parameter code	Parameter name	Parameter range	Default value	Remarks
N26	FCU cooling temperature compensation	00/01/02/03/04	00	00: 0 °C 01: 1 °C 02: 2 °C 03: 3 °C 04: -1 °C
N27	Maximum indoor temperature drop D3 in dry mode	00/01/02/03/04	01	(reserved)
N28	Upper limit of automatic fan speed in cooling	4/5/6/7	5	(reserved)
N29	Upper limit of automatic fan speed in heating mode	4/5/6/7	5	(reserved)
N30	Constant air flow setting	00/01	01	(reserved)
N31	High ceiling setting	00/01/02	00	Set FCU height, 00: 3 m 01: 4 m 02: 4.5 m
N32	Q4/Q4min air outlet 1 setting	00/01	00	00 - Free control 01 - Off
N33	Q4/Q4min air outlet 2 setting	00/01	00	00 - Free control 01 - Off

Parameter code	Parameter name	Parameter range	Default value	Remarks
N34	Q4/Q4min air outlet 3 setting	00/01	00	00 - Free control 01 - Off
N35	Q4/Q4min air outlet 4 setting	00/01	00	00 - Free control 01 - Off
N36	Cooling only for FCU	00/01	00	(reserved)
N37	One-to-more of wired controller enabled	00/01	00	00: No 01: Yes
N38	On/Off port logic via remote control	00/01	01	00: Remote off (closed) 01: Remote off (open) Note: When powered off remotely, the digital display of wired controller of V8 displays d61
N39	Power off delay viaremote control	00/01/.../06	00	00 - No delay 01 - 1 min delay 02 - 2 min 03 - 3 min 04 - 4 min 05 - 5 min 06 - 10 min
N40	Alarm port logic	00/01	00	(reserved)
N41	Powerful operation	00/01	00	(reserved)

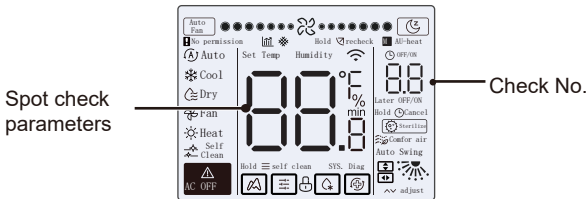
Parameter code	Parameter name	Parameter range	Default value	Remarks
N42	Sterilization setting	00/01	00	00 Sterilization unavailable (default) 01 Sterilization available
N43	Sterilization enabling method	00/01/02	00	00 Auto on 01 Forced on 02 Forced off
N44	Whether silent N44 (reserved) mode is enabled	00/01	00	(reserved)
N45	ECO	00/01	00	(reserved)
N46	Drying time at self-cleaning	0/1/2/3	00	(reserved)
N47	Mildew-proof fan operation duration (power off in cooling/dry mode, except power off due to faults)	00/01/02/03	00	(reserved)
N48	Dirt proof for ceiling	00/01	00	00: invalid 01: valid
N49	Condensation proof	00/01	00	00: invalid 01: valid

Parameter code	Parameter name	Parameter range	Default value	Remarks
N50	Human sensor	00/01/02	00	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 min 01: 30 min 02: 45 min 03: 60 min 04: 90 min 05: 120 min
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	00/01/02/03/04/05	01	00: 15 min 01: 30 min 02: 45 min 03: 60 min 04: 90 min 05: 120 min
N54	Enabling FCU energy-saving function	00/01	01	(reserved)
N55	Energy rating of cooling MPC	00/01/02	00	(reserved)

Parameter code	Parameter name	Parameter range	Default value	Remarks
N56	Energy rating of heating MPC	00/01/02	00	(reserved)
N57	On-site air flow adjustment factor (only applies to horizontal concealed unit)	00/01/02/03/04/05/06	00	Speed 7 Speed 1 00 (default) 1 1 01 1.05 1.05 02 1.1 1.1 03 1.15 1.15 04 0.95 1 05 0.9 1 06 0.85 1
N58	Initial static pressure detection	00/01	00	(reserved)
N59	Filter ending - initial static pressure setting	00/01/.../19	00	(reserved)
N60	Ambient temperature when preheating is turned on	00/01/02	02	(reserved)
N62	Fresh air dry contact 2	00/01	00	(reserved)
N63	Fresh air dry contact 3	00/01	00	(reserved)

Parameter code	Parameter name	Parameter range	Default value	Remarks
N64	Valve enabled/disabled at the time of heating, selection of auxiliary heater	00/01	00	00: Valve enabled at the time of heating 01: Valve disabled at the time of heating, applicable to fan coil unit only
N65	Set anti hot air temperature for FCU cooling [anti hot air temperature of fan coil unit of the old platform]	00/01/02/03/04	00	Fan coil unit: 00: 0 °C 01: -2 °C 02: -4 °C 03: -6 °C 04: Anti hot air invalid
N66	Auto Dry	00/01	00	(reserved)
N67	Target relative humidity of Auto Dry	40%/41%/42%/...../70%	65%	(reserved)
N68	Refrigerant leakage fault reset	00/01	00	(reserved)

5.4.5 Spot Check Query of Wired Controller



- On the home screen, press and hold "≡" and "∧" at the same time for two seconds to enter the query interface. u00-u03 indicates ODUs, n00-n63 indicates FCUs, 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 setting page automatically closes if no button is pressed within the next 60 seconds.
- Press "∧" or "√" to query the parameters. The parameters can be queried cyclically.
- On the top of the query page, the "Timing area" displays the spot check serial number, and the "Temperature area" displays the content of the spot check parameters.

Spot check content:

1 Query of wired controller address

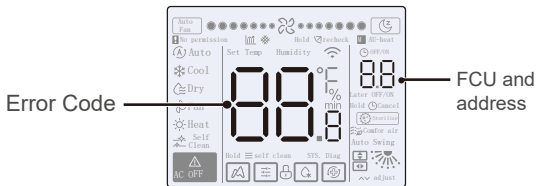
Parameter Code	Parameter Name	Remarks
1	Query of active FCU addresses for wired controller (one-to-more)	Each address is displayed for 1.5 s. Addresses are alternatively displayed. To clear historical addresses, restore the wired controller to factory settings.
2	Historical record query of FCU addresses for wired controller (one-to-more)	
3	Wired controller program version No.	

2 FCU check list

No.	Displayed content
1	FCU communication address
2	Capacity HP of FCU
3	Actual set temperature Ts
4	Set temperature of the unit that is operating currently, Ts (Remarks: The temperature displayed is the actual set temperature Ts)

No.	Displayed content
5	Actual T1 indoor temperature
6	Modified indoor temperature T1_modify
7	[—] is displayed
8	T2A heat exchanger pipe temperature
9	T2B heat exchanger pipe temperature
10	[—] is displayed
11	[—] is displayed
12	[—] is displayed
13	[—] is displayed
14	[—] is displayed
15	[—] is displayed
16	[—] is displayed
17	Software version No.
18	Historical error code (recent)
19	Historical error code (sub-recent)
20	[—] is displayed

5.4.6 Error display



- When a communication fault occurs between the wired controller and any of the FCUs, the wired controller displays the error code "C51". If an FCU has no address, the wired controller system displays "U38".
- If an FCU fails, the address of the FCU is displayed in the timer area and the fault code is displayed in the temperature area.
- Notify the distributor of the error code. Do not disassemble, modify or repair the FCU without authorization.

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