12. Function settings

To adjust the functions of this product according to the installation environment, various types of function settings are available.

NOTE: Incorrect settings can cause a product malfunction.

12-1. Function settings on indoor unit

### ■ Models: ARYG72LHTA and ARYG90LHTA

By using some components on the PCB, you can change the function settings.

Related components on the PCB and the applicable settings

Component		Setting content
DIP switch100	1	Remote controller address setting
	2	
	3	
	4	
DIP switch101	1	Setting change prohibited
	2	Setting change prohibited
	3	Fan delay setting

● Component location

Components on the indoor unit main PCB used for the function settings are located as shown in the following figure.
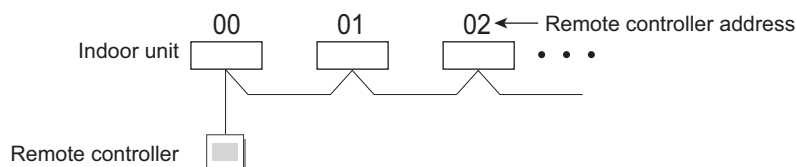

SW100

SW101

1 2 3 4

1 2 3
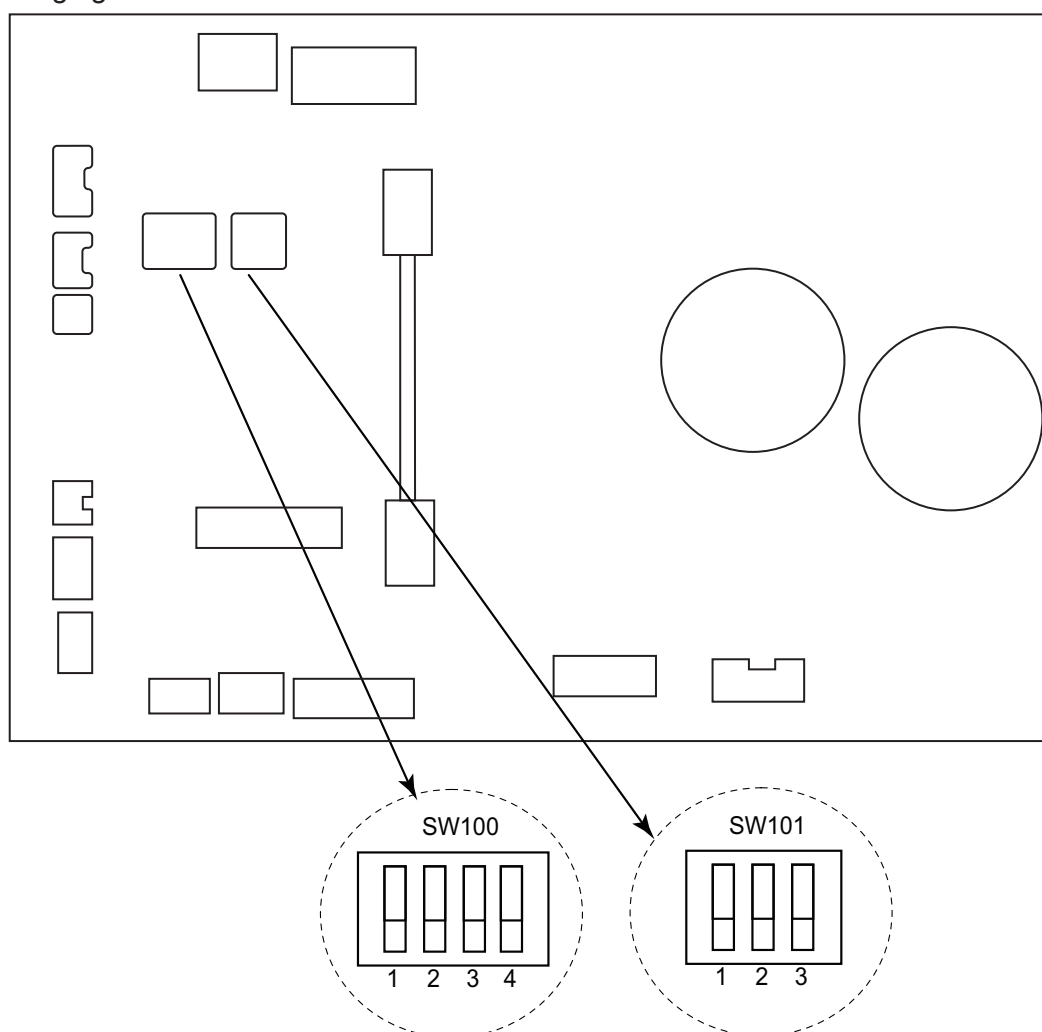
● DIP switch setting

- ## Remote controller address setting (SW100)
  When operating a number of indoor units by using a wired remote controller, DIP switch setting for assigning unit number to each indoor unit is required.
  DIP switches are normally set to make the unit number 00.

Remote controller address	DIP switch number				Factory setting
	1	**2**	**3**	**4**	
00	OFF	OFF	OFF	OFF	♦
01	ON	OFF	OFF	OFF	
02	OFF	ON	OFF	OFF	
03	ON	ON	OFF	OFF	
04	OFF	OFF	ON	OFF	
05	ON	OFF	ON	OFF	
06	OFF	ON	ON	OFF	
07	ON	ON	ON	OFF	
08	OFF	OFF	OFF	ON	
09	ON	OFF	OFF	ON	
10	OFF	ON	OFF	ON	
11	ON	ON	OFF	ON	
12	OFF	OFF	ON	ON	
13	ON	OFF	ON	ON	
14	OFF	ON	ON	ON	
15	ON	ON	ON	ON	

```
                    00        01        02 ←── Remote controller address
   Indoor unit   [      ]   [      ]   [      ]   • • •


   Remote controller   [■]
```

- ## Switch 1: Setting change prohibited (SW101)
- ## Switch 2: Setting change prohibited (SW101)
- ## Switch 3: Fan delay setting (SW101)
  When the indoor unit is stopped while operating in conjunction with auxiliary heater, the indoor unit fan operation will continue for 1 minute.

Switch 3	Fan delay	Factory setting
ON	Enabled	
OFF	Disabled	♦

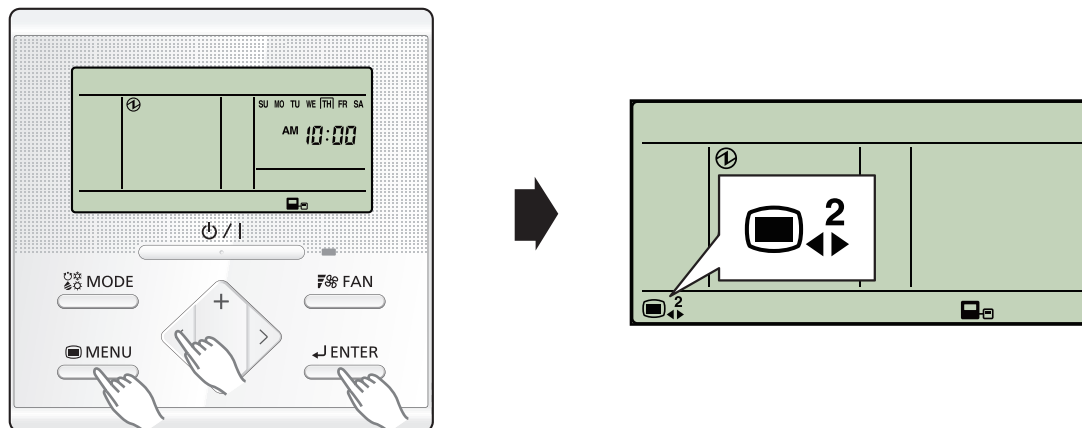# 12-2. Function settings by using remote controller

Some function settings can be changed on the remote controller. After confirming the setting procedure and the content of each function setting, select appropriate functions for your installation environment.
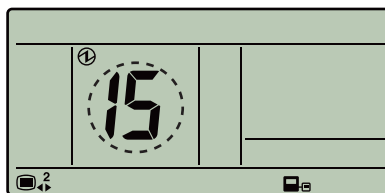
■ Remote controller address setting

● Remote controller address confirmation

NOTE: The address of this remote controller is set automatically. Do not change the indoor unit remote controller address from the factory setting "0". (Verify that the address is "0".)
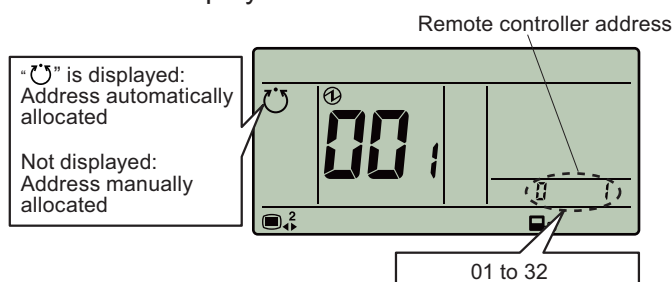
1. To activate the address setting mode, hold down the three buttons of "MENU", "<", and "ENTER" at the same time for 2 seconds or longer. Menu 2 setting screen is displayed.

2. Select the "15" in Menu 2 settings. Then press the "ENTER" button.

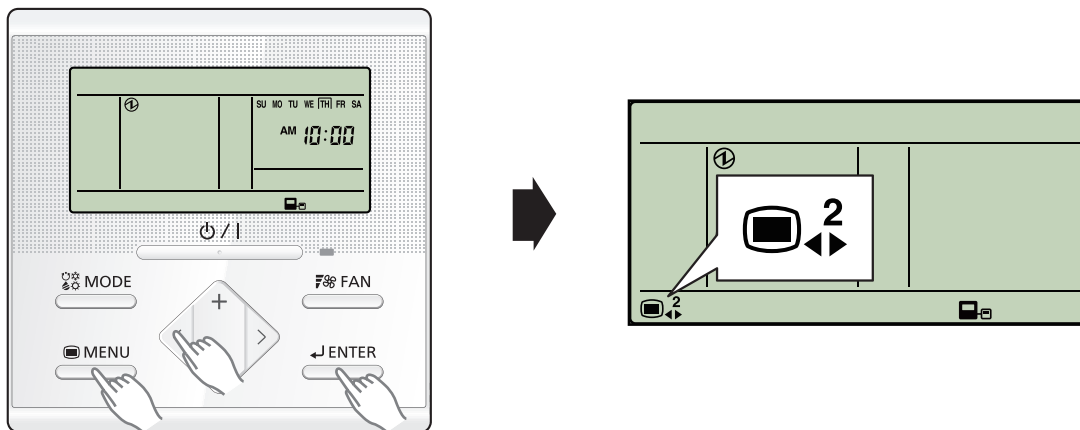3. The address of this unit is displayed on the screen.

Remote controller address

" ⟳ " is displayed:
Address automatically allocated

Not displayed:
Address manually allocated

01 to 32

Press the "ENTER" button to return to the Menu 2 item selection screen.

## ● Setting the remote controller address manually

NOTES:
- Perform manual address setting only when setting the address with an arbitrary number. Indoor unit remote controller address setting is necessary. Set the remote controller address of indoor units connected by the same remote controller cable within a range of 1 to 9 and A (10) to F (15) so that there is no duplication. (Do not set to "0".)
- The address of this unit is set within a range of 1 to 32, but set it so that it does not duplicate the remote controller address of an indoor unit connected by the same remote controller cable.
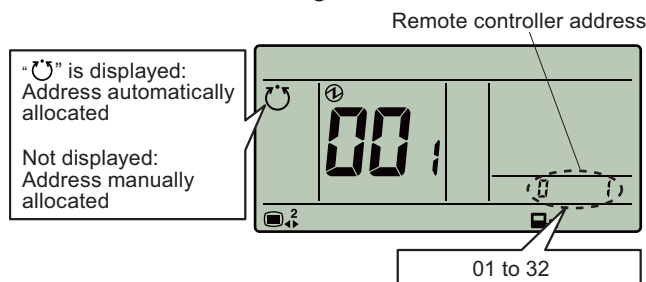
1. To activate the address setting mode, hold down the three buttons of "MENU", "<", and "EN-TER" at the same time for 2 seconds or longer. Menu 2 setting screen is displayed.

2. Select the "15" in Menu 2 settings. Then press the "ENTER" button.
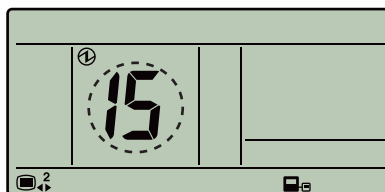
3. The address of this unit is displayed on the screen. Set the unit number with the "+" or "-" buttons. System number cannot be changed.

Remote controller address

" ⟳ " is displayed:
Address automatically allocated

Not displayed:
Address manually allocated

01 to 32

Press the "ENTER" button to return to the Menu 2 item selection screen.

● Resetting the manual address setting number

1. To activate the address setting mode, hold down the three buttons of "MENU", "<", and "EN-TER" at the same time for 2 seconds or longer. Menu 2 setting screen is displayed.

2. Select the "14" in Menu 2 settings. Then press the "ENTER" button.
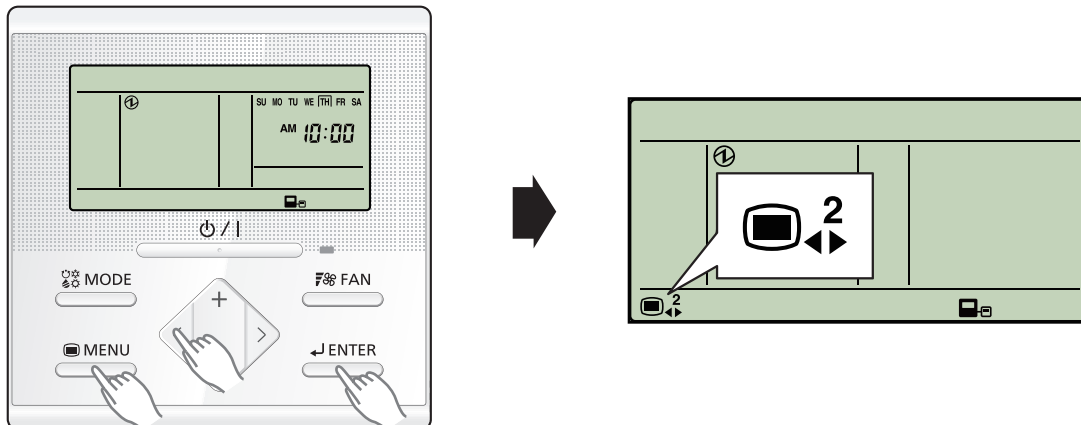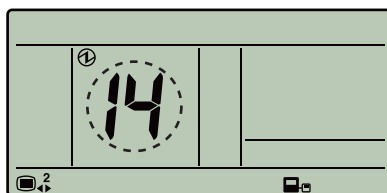
3. To reset address, select "1: Reset" with the "+" or "-" buttons. If not resetting, press the "MENU" button to the Menu 2 item selection screen.

" ↻ " is displayed:
Address automatically allocated

Not displayed:
Address manually allocated

0: Not reset
1: Reset

Press the "ENTER" button to return to the Menu 2 item selection screen.

■ Remote controller master/slave setting

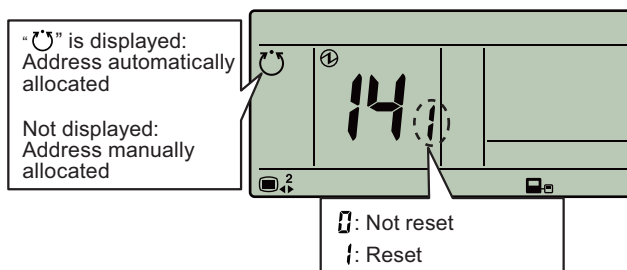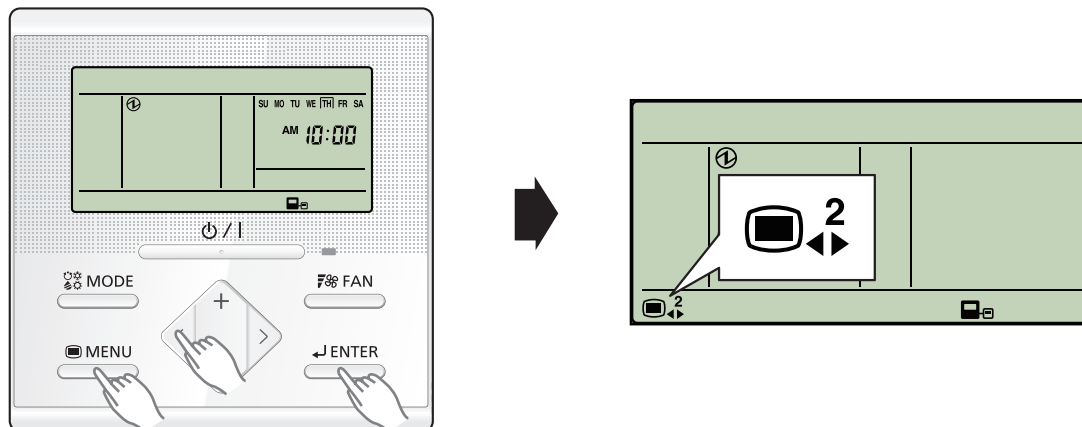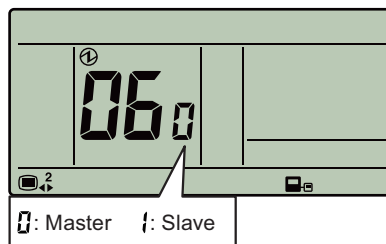**NOTE:** Set only one Master remote controller.

1. To activate the address setting mode, hold down the three buttons of "MENU", "<", and "ENTER" at the same time for 2 seconds or longer. Menu 2 setting screen is displayed.

2. Select the "06" in Menu 2 settings. Then press the "ENTER" button.

3. Select the "0: Master" or the "1: Slave" with the "+" or "-" buttons.

0: Master   1: Slave

4. Press the "ENTER" button. If there is no problem, return to Menu 2 items selection screen.
   In the case of settings at initial booting, "Monitor mode screen" is displayed.
   - There's 0 or more than 2 "Master" units: The number will be displayed.
   - "Master" is 0: Press the "ENTER" button to return to the Menu 2 item selection screen.
   - "Master" is more than 2: Press the "ENTER" button to return to the screen of step 2.
   - "Master" is 0 or more than 2: Press the "MENU" button to return to the Menu 2 item selection screen.

Number of Master units
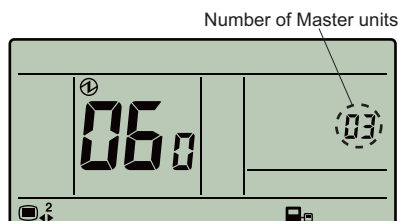
■ Setting procedure by using wired remote controller

The function number and the associated setting value are displayed on the LCD of the remote controller. Follow the instructions written in the local setup procedure supplied with the remote controller, and select appropriate setting according to the installation environment.

Before connecting the power supply of the indoor unit, reconfirm following items:

• Piping air tight test and vacuuming have been performed firmly.

• There is no wiring mistake.

1. Connect the power supply.
2. To activate the address setting mode, hold down the three buttons of "MENU", "<", and "ENTER" at the same time for 2 seconds or longer. Menu 2 setting screen is displayed.
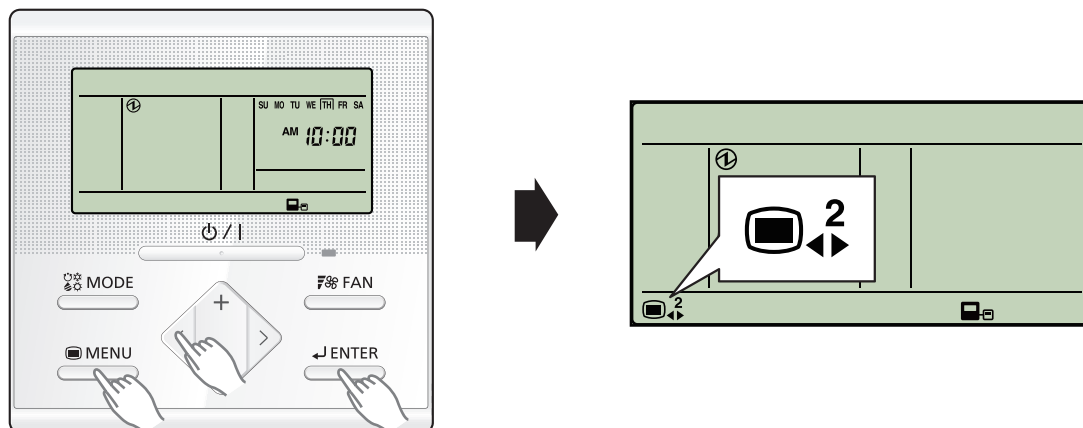

3. Select the "13" in Menu 2 settings. Then press the "ENTER" button.
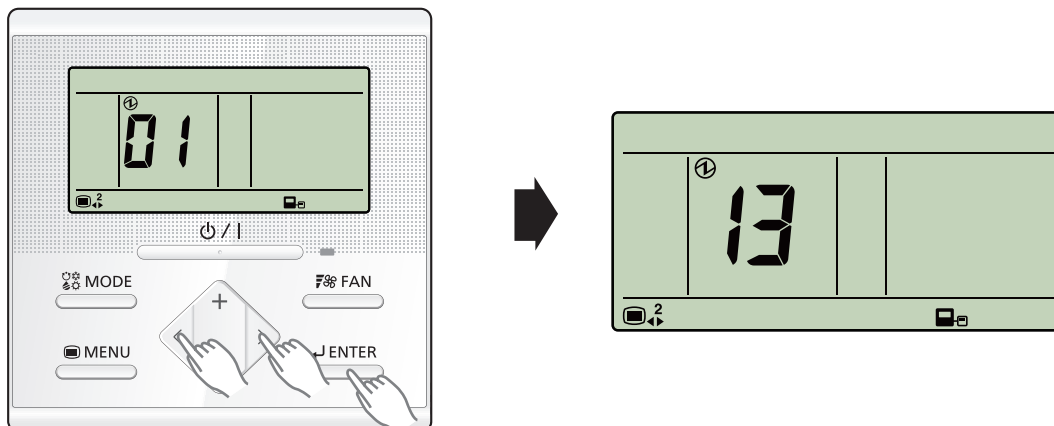
4. Pressing the "+" or "-" button, select a remote controller address (select the indoor unit you want to operate). Then press the "ENTER" button.

Remote controller address

Example: When remote controller address "01" is selected.
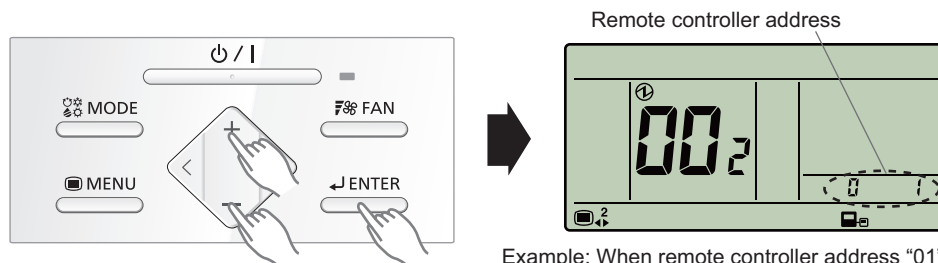
5. Pressing the "+" or "-" button, to select the function number. Then press the "ENTER" button.

Function number
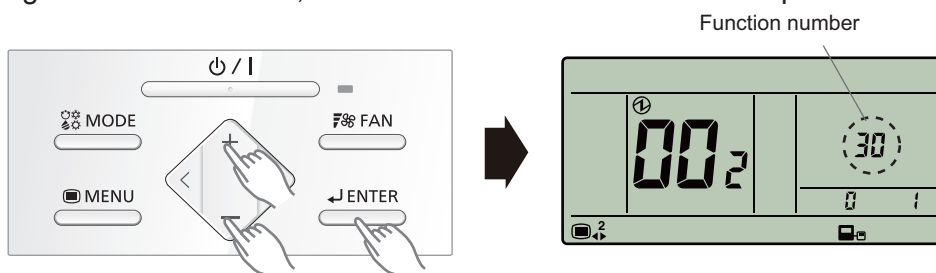
6.   Pressing the "+" or "-" button, to select the setting number. Then press the "ENTER" button.

Setting number

Example: Function number 30
Setting number 01

Error   Good
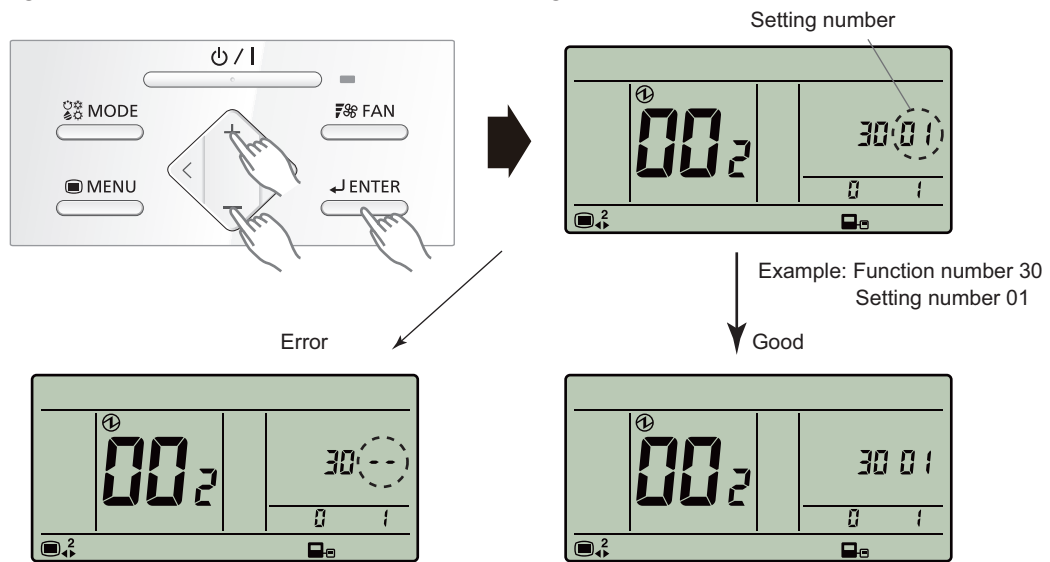
・When the data was not set up on the indoor unit   ・When the data was normally set up on the indoor unit.
  (" --" is displayed.)

・Set up the data again.

Pressing the "ENTER" button to return to the address selection screen.

If setting has been completed, pressing the "MENU" button to return to the Menu 2 item selection screen.

■ Contents of function setting

Each function setting listed in this section is adjustable in accordance with the installation environment.

NOTE: Setting will not be changed if invalid numbers or setting values are selected.

● Function setting list

	Function no.	Functions
1)	11	Filter sign
2)	26	Static pressure
3)	30/31	Room temperature control for indoor unit sensor
4)	35/36	Room temperature control for wired remote controller sensor
5)	40	Auto restart
6)	42	Room temperature sensor switching
7)	43	Cold air prevention
8)	44	Remote controller custom code
9)	46	External input control
10)	48	Room temperature sensor switching (Aux.)
11)	49	Indoor unit fan control for energy saving for cooling
12)	60	Switching functions for external output terminal

1) Filter sign

Select appropriate intervals for displaying the filter sign on the indoor unit according to the estimated amount of dust in the air of the room.
If the indication is not required, select "No indication" (03).

Function number	Setting value	Setting description	Factory setting
11	00	Standard (2,500 hours)	
	01	Long interval (4,400 hours)	
	02	Short interval (1,250 hours)	
	03	No indication	♦

2) Static pressure

Select the appropriate static pressure according to the installation conditions.

Function number	Setting value	Setting description	Factory setting
26	05	50 Pa	
	06	60 Pa	
	07	70 Pa	
	08	80 Pa	
	09	90 Pa	
	10	100 Pa	
	11	110 Pa	
	12	120 Pa	
	13	130 Pa	
	14	140 Pa	
	15	150 Pa	
	16	160 Pa	
	17	170 Pa	
	18	180 Pa	
	19	190 Pa	
	20	200 Pa	
	31	Standard (72 Pa)	♦
	32	Automatic airflow adjustment	

NOTE: Range of static pressure is different by model.

Type name	Setting of static pressure range
72 type	50 to 150 Pa
90 type	50 to 200 Pa

3) Room temperature control for indoor unit sensor

Depending on the installed environment, correction of the room temperature sensor may be required. Select the appropriate control setting according to the installed environment.

The temperature correction values show the difference from the Standard setting "00" (manufacturer's recommended value).

Function number		Setting value	Setting description		Factory setting
30 (For cooling)	31 (For heating)	00	Standard setting		♦
		01	No correction 0.0 °C		
		02	-0.5 °C	More cooling Less heating	
		03	-1.0 °C		
		04	-1.5 °C		
		05	-2.0 °C		
		06	-2.5 °C		
		07	-3.0 °C		
		08	-3.5 °C		
		09	-4.0 °C		
		10	+0.5 °C	Less cooling More heating	
		11	+1.0 °C		
		12	+1.5 °C		
		13	+2.0 °C		
		14	+2.5 °C		
		15	+3.0 °C		
		16	+3.5 °C		
		17	+4.0 °C		

4) Room temperature control for wired remote controller sensor

Depending on the installed environment, correction of the wire remote temperature sensor may be required. Select the appropriate control setting according to the installed environment.

To change this setting, set Function 42 to Both "01".

Ensure that the Thermo Sensor icon is displayed on the remote controller screen.

Function number		Setting value	Setting description		Factory setting
35 (For cooling)	36 (For heating)	00	No correction		♦
		01	No correction 0.0°C		
		02	-0.5 °C	More cooling Less heating	
		03	-1.0 °C		
		04	-1.5 °C		
		05	-2.0 °C		
		06	-2.5 °C		
		07	-3.0 °C		
		08	-3.5 °C		
		09	-4.0 °C		
		10	+0.5 °C	Less cooling More heating	
		11	+1.0 °C		
		12	+1.5 °C		
		13	+2.0 °C		
		14	+2.5 °C		
		15	+3.0 °C		
		16	+3.5 °C		
		17	+4.0 °C		

5) Auto restart

Enables or disables automatic restart after a power interruption.

Function number	Setting value	Setting description	Factory setting
40	00	Enable	♦
	01	Disable	

NOTE: Auto restart is an emergency function such as for power outage etc. Do not attempt to use this function in normal operation. Be sure to operate the unit by remote controller or external device.

6) Room temperature sensor switching

(Only for wired remote controller)

When using the wired remote controller temperature sensor, change the setting to "Both" (01).

Function number	Setting value	Setting description	Factory setting
42	00	Indoor unit	♦
	01	Both	

00: Sensor on the indoor unit is active.

01: Sensors on both indoor unit and wired remote controller are active.

NOTE: Remote controller sensor must be turned on by using the remote controller.

7) Cold air prevention

This setting is to disable the cold air prevention function during heating operation. When disabled, the fan setting will always follow the setting on the remote controller. (Excluding defrost mode)

Function number	Setting value	Setting description	Factory setting
43	00	Enable	♦
	01	Disable	

8) Remote controller custom code

(Only for wireless remote controller)

The indoor unit custom code can be changed. Select the appropriate custom code.

Function number	Setting value	Setting description	Factory setting
44	00	A	♦
	01	B	
	02	C	
	03	D	

9) External input control

"Operation/Stop" mode or "Forced stop" mode can be selected.

Function number	Setting value	Setting description	Factory setting
46	00	Operation/Stop mode 1	♦
	01	(Setting prohibited)	
	02	Forced stop mode	
	03	Operation/Stop mode 2	

10) Room temperature sensor switching (Aux.)

To use the temperature sensor on the wired remote controller only, change the setting to "Wired remote controller" (01).

This function will only work if the function setting 42 is set at "Both" (01).

When the setting value is set to "Both" (00), more suitable control of the room temperature is possible by setting function setting 30 and 31 too.

Function number	Setting value	Setting description	Factory setting
48	00	Both	♦
	01	Wired remote controller	

11) Indoor unit fan control for energy saving for cooling

Enables or disables the power-saving function by controlling the indoor unit fan rotation when the outdoor unit is stopped during cooling operation.

Function number	Setting value	Setting description	Factory setting
49	00	Disable	
	01	Enable	
	02	Remote controller	♦

00: When the outdoor unit is stopped, the indoor unit fan operates continuously following the setting on the remote controller.

01: When the outdoor unit is stopped, the indoor unit fan operates intermittently at a very low speed.

02: Enable or disable this function by remote controller setting.

NOTES:

• As the factory setting, this setting is initially inactivated.

• Set to "00" or "01" when connecting a remote controller that cannot set the Fan control for energy saving function or connecting a network converter.
To confirm if the remote controller has this setting, refer to the operating manual of each remote controller.

12) Switching functions for external output terminal

Functions of the external output terminal can be switched. For details, refer to "External input and output".

Function number	Setting value	Setting description	Factory setting
60	00	Operation status	♦
	01—08	(Setting prohibited)	
	09	Error status	
	10	Indoor unit fan operation status	
	11	External heater	