daitsu

MODE AUTO COOL DRY HEAT FAN LOCK

daitsu

WIRE REMOT CONTROL ROOF-TOP

Serie
WIRE REMOT CONTROL ROOF-TOP

Edition
01/21

Models
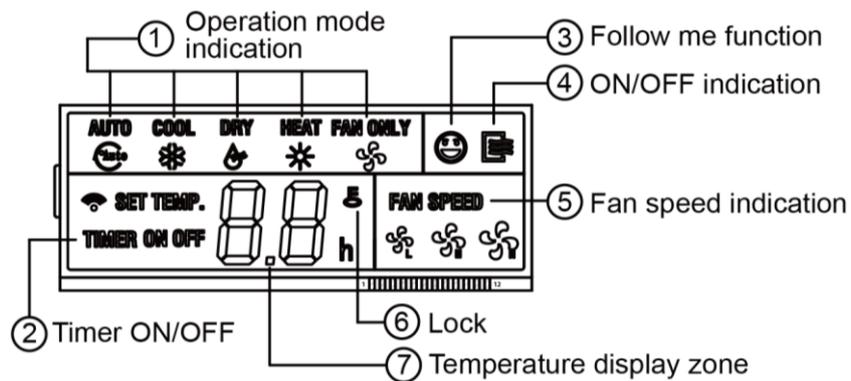**CCRTD-12B**

1. Wired controller: CCRTD-12B

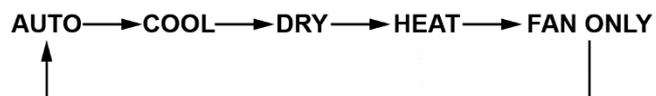**CCRTD-12B**

1.1 Wired controller specifications

Model	CCRTD-12B
Power supply	5.0V DC
Operation temperature	-15°C～43°C
Operation humidity	40%~90% RH

1.2 Introduction of indicators function

1. Operation mode indication:

When press '**MODE**' button, the following mode can be selected in circle.

AUTO ——► COOL ——► DRY ——► HEAT ——► FAN ONLY

For cooling only model, the indicator '*HEAT'* is skipped.

2. Timer ON/OFF

When adjust setting on time or only on time is set, the indicator '*ON*' is lighted.

When adjust setting off time or only off time is set, the indicator '*OFF*' is lighted.

If timer-on and timer-off timer both set, the indicators '*ON*' and '*OFF*' will be both lighted.

3. Follow me function

There is a temperature sensor inside the wired controller, after setting temperature; the detected temperature by this sensor will be compared with setting temperature. The space of wired controller will be same as the setting temperature.

It is available under cooling, heating and auto mode.

4. ON/OFF indication

When it is on, the icon will be displayed, otherwise it is extinguished.

5. Fan speed indication (For rooftop packages, it is not available.)

There are four fan modes: low, medium, high and auto. For some models, there is not medium fan speed, and the medium fan speed is seen as high speed.

6. LOCK

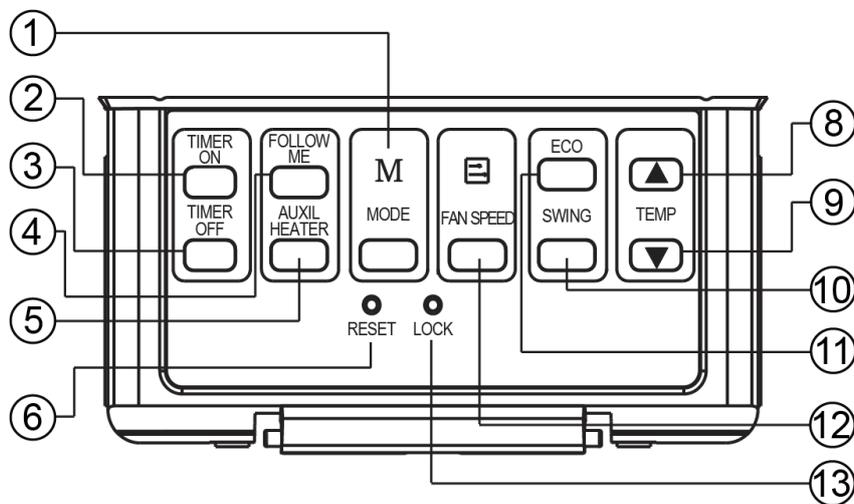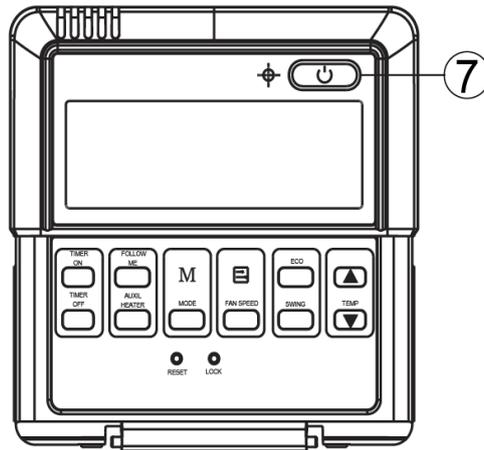When the '**LOCK**' button is pressed, the icon will be displayed and other button is unable. Press the '**LOCK**' again, the icon will be extinguished.

7. Temperature display zone

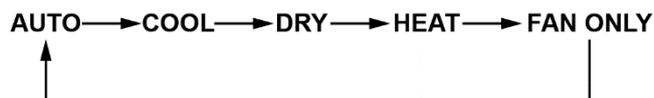Generally it displays setting temperature, it can be adjusted by press temperature button ▲and ▼. But in fan only mode, the temperature display zone will be blank.

1.3 Introduction of buttons

1. **Mode** button:

When press this button, the operation mode changes as the following sequence:

AUTO → COOL → DRY → HEAT → FAN ONLY

But for the cooling only model, the heating mode is skipped.

2. **TIMER ON** button:

Press this button, timer-on function is active. Then every press, the time will increase 0.5h, after 10 hours, increase by 1 hour for each press. If cancel this function, just set it to 0.0.

3. **Timer off** button:

Press this button, timer-off function is active. Then Then every press, the time will increase 0.5h, after 10 hours, increase by 1 hour for each press. If cancel this function, just set it to

.

c

.

.

.

.

0.0

4. FOLLOW ME button:

When under cool, heat and auto mode, and press this button, follow me function is active. Press again, this function is ineffective.

5. AUXIL HEATER button: (Only available for Cooling only with EHK model.)

If press this button in heat mode, electrical heater function become ineffective.

6. RESET button: (Hidden)

Use a 1 mm stick to press in the little hole, then the current setting is canceled. The wired controller enters into original state.

7. ON/OFF button

When in off state, press this button, the indicator is on, the wired controller enters into on state, and send setting information to main PCB board. When in on state, press this button, the indicator is off, and send instruction. If timer-on or timer-off has been set, it cancels this setting then sends instruction to stop the machine.

8. TEMP ▲ adjust button:

Set indoor temperature up. If press and hold on, it will increase at 1°C (2°F) per 0.5 second.

9. TEMP ▼ adjust button:

Set indoor temperature up. If press and hold on, it will decrease at 1°C (2°F) per 0.5 second.
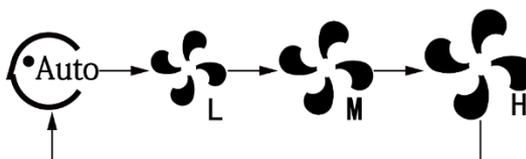
10. SWING button: (Reserved)

First press, then start swing function; after second press, stop swing.

11. ECO button: (Economy operation, Reserved)

Press this button, and then the unit will operate in economy mode. Press again, this mode can be exited.

12. FAN SPEED button: (For rooftop packages, it is not available.)

When press this button consecutively, and then the indoor side fan speed will circles as following:

13. **LOCK** button: (Hidden)

When push the **LOCK** button, all current settings are locked in and the wired controller does not accept any instruction except that of the **LOCK** button. Use the lock mode when want to prevent setting from being changed accidentally or play fully. Push the **LOCK** button again when want to cancel the lock mode.

1.4 Operation

Automatic operation

Connect to the power supply, and the operation lamp in main PCB board will flash.

Step 1: Press **MODE** button, and select *AUTO* icon.

Step 2: Press the button ▲ and ▼, set temperature as requirement; generally it is among from 17°C to 30°C.

Step 3: Press **ON/OFF** button, operation lamp is on, the unit can be worked in auto mode, and indoor side fan speed is auto, and cannot be changed. Auto is displayed on LCD. Press it again to stop.

Notes: Economy operation is valid in auto mode.

Cool / Heat / Fan only mode operation

Step 1: Press **MODE** button, and select *COOL*, or *HEAT*, or *FAN ONLY* icon.

Step 2: Press temperature adjust button to select setting temperature.

Step 3: Press **FAN SPEED** button to select high, medium, low or auto. (For rooftop packages, it is not available.)

Step 4: Press **ON/OFF** button, indoor unit operation lamp on, it works in selected mode. Press **ON/OFF** button again, it stops to work.

Notes: In fan only mode, temperature cannot be set.

Dry operation

Step 1: Press **MODE** button, select *DRY* icon.

Step 2: Press temperature adjust button to select setting temperature.

Step 3: Press **ON/OFF** button, indoor unit operation lamp on, it works in dry mode. Press **ON/OFF** button again, it stops to work.

Notes: Under dry mode, economy operation and fan speed adjustment are ineffective.

Timer setting

The timer time is relative time, and that is delay after setting time. So when timer is set, the standard time cannot be adjusted.

Timer setting – Timer on only

Step 1: Press **TIME ON** button, it display *SET* on LCD screen, and display *H* and *ON*, it is waiting for timer on setting.

Step 2: Press **TIMER ON** button repeatedly to adjust time setting.

Step 3: If press this button and hold on, the time will increase at 0.5h, after 10 hours, it increase at 1 hour.

Step 4: After setting 0.5 second, the wired controller sends timer-on information to the unit, it is finished.

Timer setting – Timer off only

Step 1: Press **TIME OFF** button, it display *SET* on LCD screen, and display *H* and *OFF*, it is waiting for timer on setting.

Step 2: Press **TIMER OFF** button repeatedly to adjust time setting.

Step 3: If press this button and hold on, the time will increase at 0.5h, after 10 hours, it increase at 1 hour.

Step 4: After setting 0.5 second, the wired controller sends timer-on information to the unit, it is finished.

Timer-on and timer-off both

Step 1: Set timer-on time as the corresponding step 1 and step 2.

Step 2: Set timer-off time as the corresponding step 1 and step 2.

Notes: Timer-off time must be longer than timer-on time.

Step 3: 0.5 second after setting, the wired controller send information to the unit. And the setting is finished.

Change timer

When need to change timer time, press corresponding button to revise it. If cancel timer, please change timer time to 0.0.

1.5 Installation of wired controller

Caution

✧ Do not install it in a place where combustible gas easily leaks. Once combustible gas leaks and remains around wired controller, fire may be cause. Do not install it in a place with oil, steam or sulphur gas, or else deform or malfunction may occur.

✧ Wires must be suitable for the current of the wired controller. Otherwise, electricity leakage or heating may be caused, which may result in fire.

✧ Install the wire joint (5P) to the appointed position of the electric controlling box.

✧ Circuit of wired controller is low voltage circuit, and never connected with a standard 220V or 380V circuit. Also do not put it into a same wiring tube, and the interval must be more than 300~ 500mm.

✧ The shield cable must be connected stable to the ground, otherwise transmission may fail.

✧ Wire must be suitable for wired controller, never bring outside force to bear on the terminal.

✧ Do not to attempt to extend the shield cable by cutting. If it is necessary, please use terminal connection block to connect.
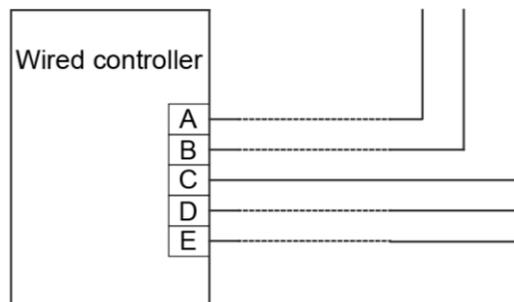
Accessories

Item	Quantity	Remarks
Wired controller	1	\
Wood mounting screw	3	M4×20 (For mounting on the wall)
Mounting screw	3	M4×25 (For mounting on the electrical switch box)
Installation manual	1	\
Owner's manual	1	\
5P terminal group	\	\
Installation screw	\	For fixing terminal.

Preparing at site

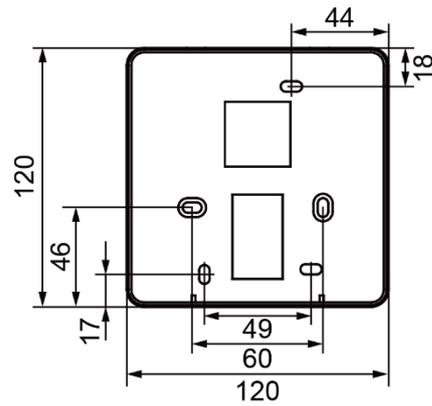| Item	Quantity	Remarks
5-core shield cable	1	RVVP-05mm^2×5. The longest wire is 30m.
Switch box	1	\
Wiring tube	1	Insulating sleeve and tightening screw.

Wiring principle

When it is necessary to use the wired controller, please follow the label of A/B/C/D/E to connect the wired controller. And the other side of the signal wire should be connected with main PCB board well. A is anode, and B is cathode. C is +5V. D is GND and E is RUN.
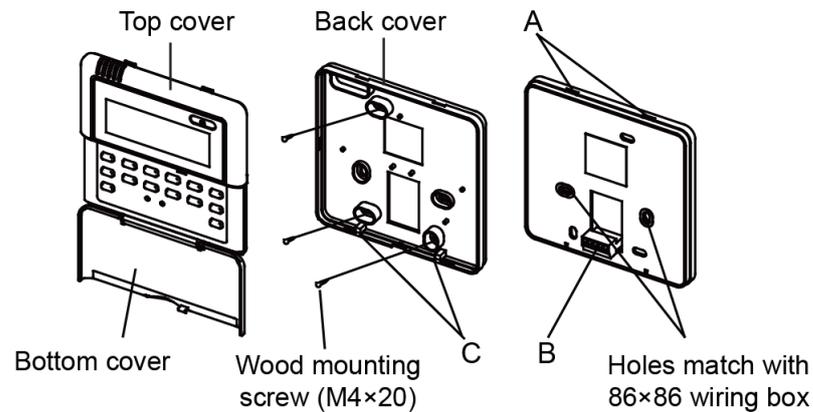
Installation:

Confirm the installed location of wired controller, before install the wired controller. If install it on the wall without electric switch box, the hole for 5P-terminal of wired controller is necessary.

Dimension of rear cover as following picture (Unit: mm):

Installation figure as following:

Top cover   Back cover   A

Bottom cover   Wood mounting screw (M4×20)   C   B   Holes match with 86×86 wiring box

A: Turn a screwdriver at the concave on bottom panel of the wired controller to remove the back cover.

B: When installing the wired controller cover, it is sure that there is a hole in the wall to avoid the wired controller back cover being fixed directly to the wall which is not allowed for the wire joint extrudes out of the back cover.

C: When installing the wired controller, adjust the bottom of the controller board to the back cover which should be fixed first, then press the other end of the controller board.

Notes: The connecting wire should be a little longer as to take away the switch board and controller easily for maintenance.

daitsu