Installation manual for wired remote controller

Read together with indoor unit's installation manual.

MARNING Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal Ð Loose connection or hold will cause abnormal heat generation or fire.

Make sure the power supply is turned off when electric wiring work. Otherwise, electric shock, malfunction and improper running may occur.

DO NOT install the remote controller at the following places in order to avoid malfunction. (4) Hot surface or cold surface enough to generate condensation (1) Places exposed to direct sunlight (5) Places exposed to oil mist or steam directly (2) Places near heat devices (3) High humidity places (6) Uneven surface

DO NOT leave the remote controller without the upper case.

In case the upper cace needs to be detached, protect the remote controller with a packaging box or bag in order to keep it away from water and dust.

Accessories	Remote controller, wood screw (ø3.5×16) 2 pieces	
Prepare on site	Remote controller cord (2 cores) the insulation thickness in 1mm or mo	
	[In case of embedding cord] Erectrical box, M4 screw (2 pieces)	
	[In case of exposing cord] Cord clamp (if needed)	

Installation procedure

- Open the cover of remote controller, and remove the screw under the (1)buttons without fail.
- (1)

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② Remove the upper case of remote controller. Insert a flat-blade screwdriver into the dented part of the upper part of the remote controller, and wrench slightly.

[In case of embedding cord]

③ Embed the erectrical box and remote controller cord beforehand.



(4) Prepare two M4 screws (recommended length is 12-16mm) on site, and install the lower case to erectrical box. Choose either of the following two positions in fixing it with screws.



- (5) Connect the remote controller cord to the terminal block. Connect the terminal of remote controller (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)
- 6 Install the upper case as before so as not to catch up the remote controller cord, and tighten with the screws.

[In case of exposing cord]

3 You can pull out the remote controller cord from left upper part or center upper part. Cut off the upper thin part of remote controller lower case with a nipper or knife, and grind burrs with a file etc. P

④ Install the lower case to the flat wall with attached two wooden screws.

- (5) Connect the remote controller cord to the terminal block. Connect the terminal of remote controller (X,Y)
- with the terminal of indoor unit (X,Y). (X and Y are no polarity) Wiring route is as shown in the right diagram depending on the pulling out direction.



Lowe Lower `Wiring Wirin In case of pulling out from In case of pulling out from

upper left

The wiring inside the remote controller case should be within 0.3mm² (recommended) to 0.5mm². The sheath should be peeled off inside the remote controller case. The peeling-off length of each wire is as below.

Pulling out from upper left	Pulling out from upper center	
X wiring : 215mm	X wiring : 170mm	
Y wiring : 195mm	Y wiring : 190mm	

- (6) Install the upper case as before so as not to catch up the remote controller cord, and tighten with the screws
- In case of exposing cord, fix the cord on the wall with cord clamp so as not to slack.

Installation and wiring of remote controller

(1)Wiring of remote controller should use 0.3mm² × 2 core wires or cables. (on-site configuration) ② Maximum prolongation of remote controller wiring is 600 m. If the prolongation is over 100m, change to the size below.

But, wiring in the remote controller case should be under 0.5mm². Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure. ····0.5mm² × 2 cores 100 - 200m···

- ····0.75mm² × 2 cores Under 300m ····
- Under 400m1.25mm² × 2 cores
- Under 500m ····2.0mm² × 2 cores

Master/ slave setting when more than one remote controllers are used

A maximum of two remote controllers can be connected to one indoor unit (or one group of indoor units.)



Set SW1 to "Slave" for the slave remote controller. It was factory set to "Master" for shipment. Note: The setting "Remote controller thermistor enabled" is only selectable with the master remote controller in the position where you want to check room temperature.

The air conditioner operation follows the last operation of the remote controller regardless of the master/ slave setting of it.

The indication when power source is supplied

When power source is turned on, the following is displayed on the remote controller until the communication between the remote controller and indoor unit settled.

Master remote controller : "@WAIT@ M Slave remote controller : " @WAIT @ -S"

At the same time, a mark or a number will be displayed for two seconds first.

This is the software's administration number of the remote controller, not an error cord,

When remote controller cannot communicate with the indoor unit for half an hour, the below indication will appear

Check wiring of the indoor unit and the outdoor unit etc.





beeling-off length

of sheath

upper center

79°F) When you set upper and lower limit by this function, control as below.

[If upper limit value is set]

The range of temperature setting

Heating: 16~30°C (55~86°F)

[If lower limit value is set]

[If upper limit value is set] But, the indication is the same as the temperature set.

[If lower limit value is set] But, the indication is the same as the temperature set.

How to set upper and lower limit value

- seconds
- The indication changes to "FUNCTION SET ▼".
- 4.
- 5. Press () (SET) button to fix.
- 6. When "UPPER LIMIT ▼" is selected (valid during heating)
- (1) Indication: " $\bigcirc \lor \land \mathsf{SET} \mathsf{UP}" \to "\mathsf{UPPER 30}^\circ \mathsf{C} \lor$ " (blinking)
- (1) Indication: " $\bigcirc \lor \land \mathsf{SET} \mathsf{UP}" \to \mathsf{"LOWER} 18^\circ \mathsf{C} \land "$ (blinking)
- 8. Press ON/OFF button to finish.
 - · It is possible to finish by pressing ON/OFF button on the way, but unfinished change of setting is unavailable.
- During setting, if you press (RESET) button, you return to the previous screen.





M4 screw × 2 (Prepare on site)

Upper

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Lower case

Lower

Upper

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Lower cas

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(4)

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The thin part

When shipped, the range of set temperature differs depending on the operation mode as below.

Except heating (cooling, fan, dry, automatic) : 18~30°C (62~86°F)

• Upper limit and lower limit of set temperature can be changed with remote controller. Upper limit setting: valid during heating operation. Possible to set in the range of 20 to 30°C (68 to 86°F). Lower limit setting: valid except heating (automatic, cooling, fan, dry) Possible to set in the range of 18 to 26°C (62 to

1. When (2) TEMP RANGE SET, remote controller function of function setting mode is "INDN CHANGE" (factory setting).

During heating, you cannot set the value exceeding the upper limit.

During operation mode except heating, you cannot set the value below the lower limit.

2. When (2) TEMP RANGE SET, remote controller function of function setting mode is "NO INDN CHANGE"

During heating, even if the value exceeding the upper limit is set, upper limit value will be sent to the indoor unit.

During except heating, even if the value lower than the lower limit is set, lower limit value will be sent to the indoor unit.

1. Stop the air-conditioner, and press (SET) and (MODE) button at the same time for over three

2. Press ▼ button once, and change to the "TEMP RANGE ▲ " indication.

3. Press () (SET) button, and enter the temperature range setting mode.

Select "UPPER LIMIT ▼ " or "LOWER LIMIT ▲ " by using ▲ ▼ button.

(2) Select the upper limit value with temperature setting button ∇ \wedge . Indication example: "UPPER 26°C $\vee \wedge$ "

③ Press (SET) button to fix. Indication example: "UPPER 26°C" (Displayed for two seconds) After the fixed upper limit value displayed for two seconds, the indication will return to "UPPER LIMIT V". 7. When "LOWER LIMIT ****" is selected (valid during cooling, dry, fan, automatic)

② Select the lower limit value with temperature setting button \bigtriangledown \land . Indication example: "LOWER 24°C $\lor \land$ "

③ Press O (SET) button to fix. Indication for example: "LOWER 24°C" (Displayed for two seconds) After the fixed lower limit value displayed for two seconds, the indication will return to "LOWER LIMIT V".



The functional setting



(finished)

