# 8.2 Simple wired remote controller (RCH-E3)

## Models RCH-E3



DO NOT install the remote controller at the following places in order to avoid malfunction.

- (1) Places exposed to direct sunlight (4) Hot surface or cold surface enough to generate condensation
- (2) Places near heat devices
- (3) High humidity places
- (5) Places exposed to oil mist or steam directly(6) Uneven surface
- PJZ000Z272







In case of exposing wiring



The remote controller wiring can be extracted from the upper center. After the thin part in the upper side of the remote controller upper case is scraped with a nipper or knife, remove burr with a file.



## Wiring specifications

(1) Wiring of remote controller should use 0.3 mm<sup>2</sup> imes 2 core wires or cables. (on-site configuration)

- (2) Maximum prolongation of remote controller wiring is 600m.
  - If the prolongation is over 100m, change to the size below.

But, the wiring in the remote controller case should be 0.3mm<sup>2</sup> (recommended) to 0.5mm<sup>2</sup>. 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.

Length	Wiring thickness	
100 to 200m	0.5mm <sup>2</sup> × 2 cores	
Under 300m	0.75mm <sup>2</sup> × 2 cores	
Under 400m	1.25mm <sup>2</sup> × 2 cores	
Under 600m	2.0mm <sup>2</sup> × 2 cores	

Adapted to ROHS directive

Unit:mm

# Simple Remote Controller Installation Manual

PJZ012D069

Read together with indoor unit's installation manual.

and secure with the removed screw.





Under  $600m \cdot \cdot \cdot \cdot 2.0mm^2 \times 2$  cores



### 6. Function setting

Each function of the remote controller and the indoor unit is automatically set to the initial setting, which is the standard use, on the occasion of connecting the remote controller with the indoor unit. In the case of the standard use, the setting change is unnecessary. However, if you whould like to change the initial setting "  $\bigcirc$  ", change the setting for only the item of the function number. <u>Record the setting contents and stored them.</u>

#### (1) Function setting item by switch on PCB

Switch No.	Setting	Setting detail	Initial setting	Sv	witch No.	Setting	Setting detail	Initial setting
SW1-1	ON	Slave remote controller			CW1 E	ON	"TEMP" button prohibited	
	OFF	Master remote controller	0		3W1-0	OFF	"TEMP" button enabled	0
SW1-2	ON	Remote controller thermistor enabled			CW1 6	ON	"FAN SPEED" button prohibited	* Note 1
	0FF	Remote controller thermistor disabled	0		SW1-0	OFF	"FAN SPEED" button enabled	* Note 1
SW1-3 -	ON	"MODE" button prohibited			CW1 7	ON	Auto restart function enabled	
	0FF	"MODE" button enabled	0		SW1-7	OFF	Auto restart function disabled	0
SW1-4	ON	"ON/OFF" button prohibited		CM	1 2 0 0	ON	Naturad	
	OFF	"ON/OFF" button enabled	0	51	vi-o, 9, U	OFF	1101 0500	



• As for the slave remote controller, function setting is impossible other than SW1-1.

 In the indoor unit with only one fan speed, "FAN SPEED" button cannot be enabled.

#### $(2) \quad \mbox{Function setting item by button operation} \\$

Classification	Function No.	Function	Setting No.	Setting	Initial setting	Remarks
			01	Fan speed: three steps	% Note 1	The fan speed is three steps, 🏶 📲 🖬 - 🕸 🖷 - 🕸 🖷 .
	01	Indeer unit fen eneed	02	Fan speed: two steps (Hi-Lo)	% Note 1	The fan speed is two steps, 🗱 🖬 🖬 🕈 📽 🖬 .
	UI	indoor unit tan speed	03	Fan speed: two steps (Hi-Me)		The fan speed is two steps, 🏶 💵 🖬 - 📽 💵 .
Remote			04	Fan: one step	% Note 1	The fan speed is fixed to one step.
			01	Remote controller thermistor: no offset	0	
			02	Remote controller thermistor: +3.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at +3.0°C.
		Remote controller	03	Remote controller thermistor: +2.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at +2.0°C.
	03	thermistor at the time	04	Remote controller thermistor: +1.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at +1.0°C.
		of cooling	05	Remote controller thermistor: -1.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at -1.0°C.
			06	Remote controller thermistor: -2.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offset temperature at -2.0°C.
			07	Remote controller thermistor: -3.0 °C		At the time of cooling, in the case of remote controller thermistor enabled, offsett temperature at -3.0°C.
controller			01	Remote controller thermistor: no offset	0	
function			02	Remote controller thermistor: +3.0 °C	_	At the time of heating, in the case of remote controller thermistor enabled, offset temperature at +3.0°C.
		Remote controller	03	Remote controller thermistor: +2.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at +2.0°C,
	04	thermistor at the time	04	Remote controller thermistor: +1.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at +1.0°C.
		of heating	05	Bemote controller thermistor: -1.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at -1.0°C.
			06	Bemote controller thermistor: -2.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at -2.0°C.
			07	Bemote controller thermistor: -3.0 °C		At the time of heating, in the case of remote controller thermistor enabled, offset temperature at -3.0°C.
			01	No ventilator connection	0	,
	05	Ventilation setting				In case of Single split series, by connecting ventilation device to CNT of the indoor printed circuit board (in case of VBE series, by
			02	Ventilator links air-conditioner		connecting it to CND of the indoor printed circuit board), the operation of ventilation device is linked with the operation of indoor unit.
	00	"Auto" operation	01	"Auto" operation enabled	※ Note 1	
	00	setting	02	"Auto" operation disabled	% Note 1	"Auto" operation disabled
	07	Operation permission/	01	Disabled	0	
	07	prohibition	02	Enabled		Operation permission/prohibition controller is enabled.
			01	Level input	0	
	08	External input	02	Pulse input		
			01	Standard	Note2	
	09	Fan speed setting	02	High speed 1	Note2	
			03	High speed 2	Note2	
			01	No remaining operation	0	After cooling stopped, no fan remaining operation
		Fan remaining	02	0.5 hours		After cooling stopped, fan remaining operation for 0.5 hours
	10	operation at the time	03	1 hour		After cooling stopped, fan remaining operation for 1 hour
		or cooling	04	6 hours		After cooling stopped, fan remaining operation for 6 hours
			01	No remaining operation	0	After heating stopped or after heating thermostat OFF, no fan remaining operation
		Fan remaining operation at the time of heating	02	0.5 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 0.5 hours
	11		03	2 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 2 hours
Indoor unit			04	6 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 6 hours
findoor unit		Setting temperature offset at the time of heating	01	No offset	0	
TUNCTION			02	Setting temperature offset + 3.0 °C	_	The setting temperature at the time of heating is offset by +3.0 °C.
	12		03	Setting temperature offset + 2.0 °C		The setting temperature at the time of heating is offset by +2.0 °C.
			04	Setting temperature offset + 1.0 °C		The setting temperature at the time of heating is offset by +1.0 °C.
			01	Low fan speed	※ Note 1	At the time of heating thermostat OFF, operate with low fan speed.
	13	Heating fan controller	02	Setting fan speed		At the time of heating thermostat OFF, operate with the setting fan speed.
			03	Intermittent operation	% Note 1	At the time of heatingr thermostat OFF, intermittently operate.
						At the time of heating thermostat OFF a fan will be stonned
			04	Fan off		When the remote controller thermistor is enabled, automatically set to "Fan off". Do not set at the time of the indoor unit thermistor.
	14	Return air temperature – offset	01	No offset	0	
			02	Return air temperature offset +2.0 °C		Offset the return air temperature of the indoor unit by +2.0 °C.
			03	Return air temperature offset +1.5 °C		Offset the return air temperature of the indoor unit by +1.5 °C.
			04	Return air temperature offset +1.0 °C		Offset the return air temperature of the indoor unit by +1.0 °C.
			05	Return air temperature offset -1.0 °C		Offset the return air temperature of the indoor unit by -1.0 °C.
			06	Return air temperature offset -1.5 °C		Offset the return air temperature of the indoor unit by -1.5 °C.
			07	Beturn air temperature offset -2.0 °C	1	Offset the return air temperature of the indoor unit by -2.0 °C.

Note 1: The symbol "  $\times$  " in the initial setting varies depending upon the indoor unit and the outdoor unit to be connected, and this is automatically determined as follows:

Swith No. Function No.	Function	Setting	Product model		
	"FAN ODEED"	"FAN SPEED" button prohibited	Product model whose indoor fan speed is only one step		
SW1-6	button	"FAN SPEED" button enabled	Product model whose indoor fan speed is two steps or three steps		
		Fan speed: three steps	Product model whose indoor unit fan speed is three steps		
Pomoto controllor function 01	Indoor unit fan speed	Fan speed: two steps (Hi-Lo)	Product model whose indoor unit fan speed is two steps		
		Fan speed: two steps (Hi-Me)			
		Fan: one step	Product model whose indoor unit fan speed is only one step		
Demote controller function OC	"Auto" operation	"Auto" operation enabled	Product model where "Auto" mode is selectable		
Nerriole controller function of	setting	"Auto" operation disabled	Product model without "Auto" mode		
Indoor unit function 12	Heating fan	Low fan speed	Product model except FDUS		
	control	Intermittent operation	FDUS		

### Note 2: Fan speed of "High speed" setting

Ean around potting	Indoor unit fan speed setting						
ran speed setting	\$0 mmm - 30 mm - 30 m	\$\$ = <b>H H</b> = \$\$ =	87 mm M - 87 mm				
Standard	Hi — Mid — Lo	Hi — Lo	Hi — Mid				
High speed 1 • 2	UHi — Hi — Mid	UHi — Mid	UHi — Hi				
itial setting of some	indoor unit is "High speed"						

Note 3: As for plural indoor unit, set indoor functions to each master and slave indoor unit. But only master indoor unit is received the setting change of indoor unit function "07 Operation permission/ prohibition" and "08 External input".

