

9. Remote Sensor (For Indoor Temperature)

9.1 KRCS01-1B / KRCS01-4B



Model		KRCS01-1B	KRCS01-4B
Item			
Length of branch wiring	m	12	
Appearance		Light ivory (with the Daikin logo)	
Box material		ABS resin	
Mass (Weight)	kg	0.3	
Dimensions	mm	W50 × H60 × D15	
Component parts		Remote sensor. Extension cord (12m). Screws. Clamps. Installation manual.	

Caution

- Select a location for the sensor where it can detect the average temperature. Avoid the following locations.
 - Locations in direct sunlight.
 - Locations where the outlet air from the air conditioner is directed.
 - Locations close to other heat sources.
 - Locations near doors which might be affected by air coming in.

- Recommended for ceiling suspension and ceiling-embedded types which often result in a difference between set temperature and actual temperature.
- The sensor for detecting the temperature can be placed away from the indoor air conditioner. (Branch wiring is included in the kit.)

Installation

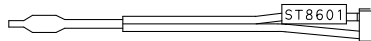
Remote sensor INSTALLATION MANUAL

KRCS01-1B Be sure to read this manual before installation 3K019189-1B
 KRCS01-4B and follow the instruction.

Note

- The kit models vary according to the model of air conditioners as follows:

KRCS01-1B	Skyair, VRV, Other air-cooled package air conditioners, High efficiency year round cooling only air conditioners, Round-flow type is excluded. Note 1)
KRCS01-4B	Skyair Round-flow type Note 2)
	VRV Round-flow type
	Duct type, FBO~DVET, FBO~DVI, FXMQ~PVE
- Note 1) If you are unsure if this kit can be used for your indoor unit, check if the type of the thermistor (for detection of inlet air temperature) is as same as the type in this kit (ST8601). The shape of the thermistor for detection of the indoor unit inlet air temperature is shown below.



Note 2) When installed on these models, the dehumidification by detection of humidity does not operate.

Components

Check the following components.

Designation	Remote sensor (sensor box)	Extension cable (2-core, 12m)	Clamps	Installation manual (this drawing)	Sensor box mounting screws (MAX16)
shape					
Pieces	1 Piece	1 Piece	2 Pieces	1 sheet	2 Pieces

1) Mounting

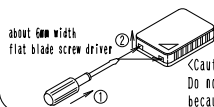
- Selecting the mounting location

The thermistor for temperature detection is incorporated into the remote sensor. Select the mounting location taking the following cautions into account.

 - where the average temperature of an air conditioned room can be detected,
 - where it is not exposed to the direct sunlight,
 - where it is not influenced by other heat sources,
 - where it is not exposed to the direct discharge air from the air conditioner,
 - where it is not exposed to the outdoor air infiltrated into the room by opening the door.

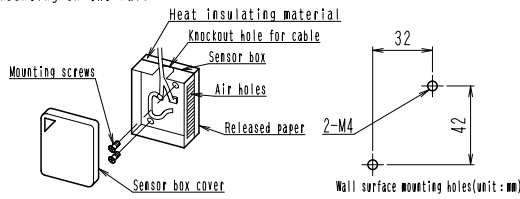
- Mounting
 - Remove the cover of the sensor box.

Insert a flat blade screw driver into the sensor box concave part (2 locations) and remove the cover pushing up the nail to the cover of the sensor box.

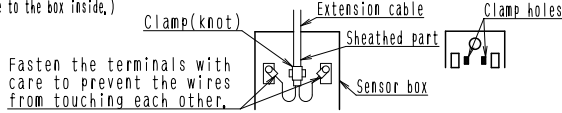


Caution
 Do not push the nail powerfully with a narrow flat blade screw driver, because you may break off the nail.

① When mounting on the wall

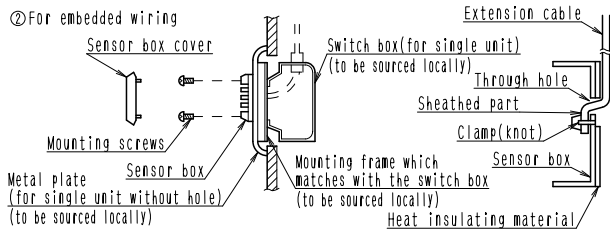


- Break open the knockout hole in the sensor box with a nipper or a similar tool. Pass the extension wires through the hole and fasten the wires to the terminals with screws.
- To avoid tensile force on the terminals, pass the attached clamp through the holes shown in the below right figure and tighten the extension cable with the attached clamp at the sheathed part. (The knot must come to the box inside.)

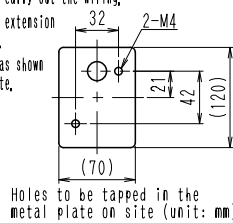


- Screw the sensor box securely to the wall surface with screws MAXI6(2 places). If the sensor box cannot be screwed to wall surface, tear off the released paper and mount it on the wall surface

② For embedded wiring



- Pass the extension cable through the switch box cable hole and carry out the wiring.
- Pass the attached clamp through the clamp holes and tighten the extension cable at the sheathed part as shown in the upper right drawing.
- Tap M4 screw holes in the metal plate (to be sourced locally) as shown in the right drawing and mount the switch box on the metal plate.



<Cautions>

- Give caution when wiring so that the air holes will not be blocked.
- When the extension cable is longer than necessary, cut it to the appropriate length, peel the insulation, attach the round crimp terminal for M3 (to be sourced locally) and carry out the wiring. The length of insulation to be peeled off is as shown.



② Wiring method

Connect the extension cable connector side to the indoor unit PCB (printed circuit board) For connection to the indoor unit, follow the procedure shown below.

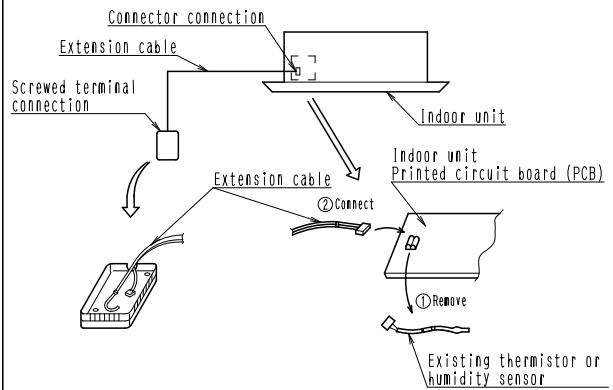
⚠ Caution

- 1) Make sure to turn off the power supply before starting the wiring work and do not turn on until all the work is completed. Read also the installation manual and the wiring diagram of the indoor unit when carrying out the work.
- 2) When wiring the extension cable, do not pass where the extension cable may be affected by the power line or noise.
- 3) Make sure to securely connect the connectors. Defective connection may result in incorrect detection of room temperature or malfunction.
- 4) Do not splice wires.
- 5) Since the connector marking of the thermistor for detection of inlet air temperature differ depending on the indoor unit type, make sure to check the indoor unit wiring diagram and follow it correctly.
- 6) Lay and clamp the extension cable inside the indoor unit switch box just like the low voltage line(cord for remote controller). And do not pass where the extension cable inside the indoor unit switch box may be affected by the power line(cord for the indoor unit and the other electric line).

<Procedure>

1. When wiring to the indoor unit PCB, remove the existing thermistor (for detection of inlet air temperature) and then connect the extension cable.

<For Skyair and VRV>



2. Lay and clamp the extension cable inside the indoor unit switch box just like the existing thermistor. Provide protection of the existing cable for thermistor without affecting other components.
3. Fit the sensor box cover into the sensor box.

③ Operation test after mounting the sensor

Conduct cooling and heating operation test after the sensor is mounted and the wiring is completed.