

9 Remote sensor

KRCS01-1

Models for remote sensor application

This kit can be used for all indoor units in the Skyair series and the VRV series.

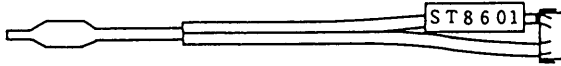
Examples:

Skyair: FHYC

VRV: FXYC

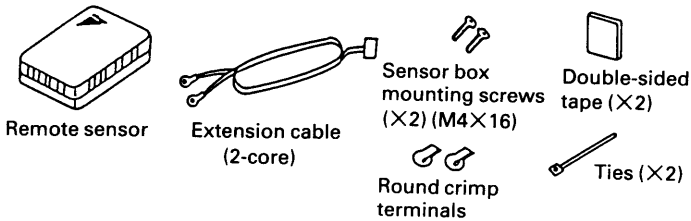
If you are unsure if this kit can be used with your particular indoor unit, check the type of thermistor (inlet air temperature sensor).

The type of thermistor incorporated in this kit is ST8601. It is shaped as shown below.



<1> Kit components

This kit includes the following components.



<2> Mounting

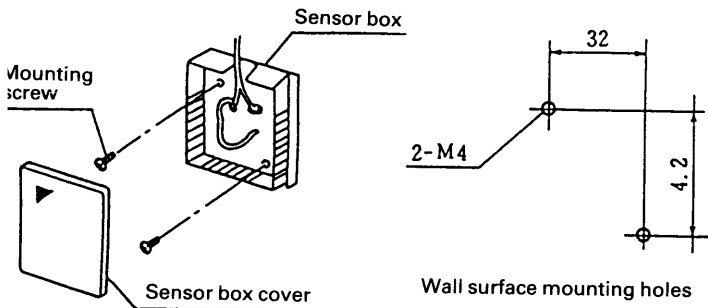
i) Selecting the mounting position

The remote sensor incorporates a thermistor to sense the temperature. Select mounting position carefully on the basis of the following considerations.

- ① A location with an average temperature for the room being air conditioned
- ② Out of direct sunlight
- ③ Away from the influence of other heat sources
- ④ Not directly exposed to the outlet air from the air conditioner
- ⑤ Not directly exposed to the air entering the room when a door is opened.

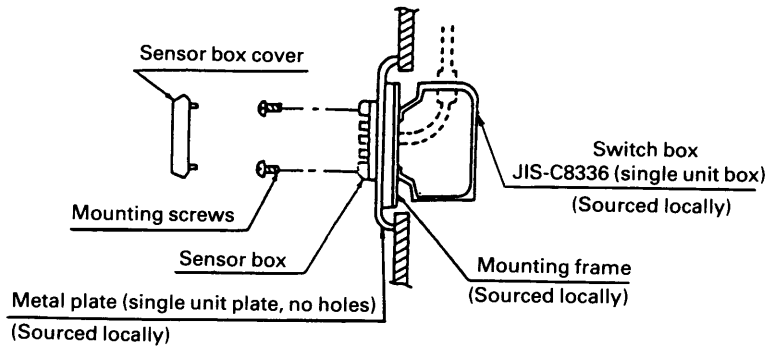
ii) Mounting

① Surface mounting

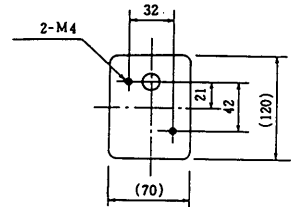


- Break out the wiring hole tabs in the sensor box using nippers or a similar tool.
- Screw the sensor box securely to the wall surface. (2 points)
- Wire to the electronic control unit in the indoor unit by first removing the existing thermistor (inlet air temperature sensor) and connecting the extension cable in its place. (The existing thermistor is no longer required.)

② Embedded wiring



- Make sensor box mounting holes in a metal plate (sourced locally) as shown on the right. Screw the sensor box firmly into position.

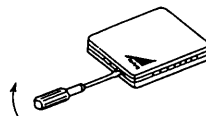


Metal plate holes machined locally

Warning: Make sure not to cover the air holes in the sensor box.

<Cautions for wiring>

Removing the sensor box cover



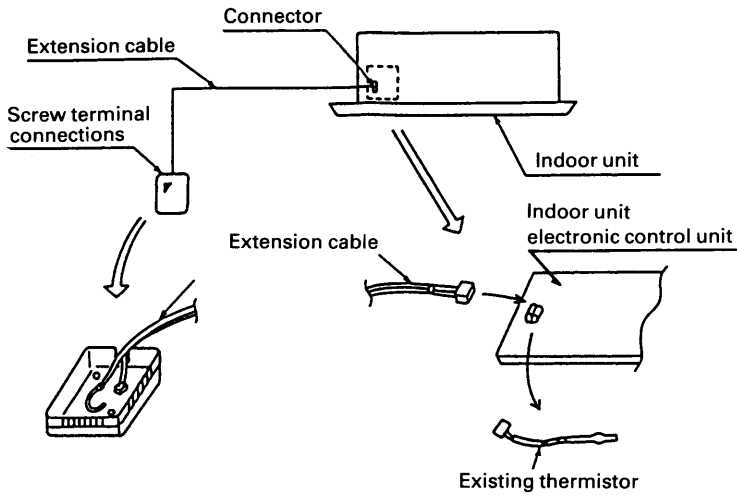
Remove the cover from the sensor box using a flat screwdriver inserted in the slot in the sensor box and the cutout in the upper case.

(Under normal circumstances, do not remove the cover from the sensor box.)

1. Install the extension cable so that it will not be affected by nearby power cables or similar sources of noise. (Noise may cause malfunctioning.)
2. Make sure that wiring connections are correct and secure. Poor contact at the connections may mean that the room temperature is sensed incorrectly and cause problems.

<3> Wiring guide

Use the extension cable provided to wire from the remote sensor to the electronic control unit in the indoor unit.



- Wire to the electronic control unit in the indoor unit by first removing the existing thermistor (inlet air temperature sensor) and connecting the extension cable in its place. (The existing thermistor is no longer required.)
- The position of the thermistor used for sensing the inlet air temperature is different according to the type of indoor unit. Check the wiring diagram for the indoor unit to make sure that you do not accidentally remove the wrong wiring.
- In the indoor unit switchbox, use the same wiring clamps for the extension cable as were used for the existing thermistor.
- If the extension cable is far too long, cut it to the appropriate length, strip the coating and fit the round crimp terminals provided. (Do not cut the cable at the connector end.)
- Push the sensor box cover onto the sensor box.

<4> Operation test after mounting the sensor

Conduct operation tests of cooling and heating after mounting the sensor and completing the wiring.