

MITSUBISHI ELECTRIC

Building Air Conditioning Control System

System Remote Controller

Installation Manual

PAC-SF41SCA



This manual describes only installation for the centralized controller (System Remote Controller PAC-SF41SCA), capable of controlling up to 50 air-conditioning or Lossnay units (max. 32 groups). For information about how to wire and how to install air conditioning units, see the installation manual for them.
For your safety, first be sure to read "1 Safety Precautions" described below thoroughly and then install the System Remote Controller PAC-SF41SCA correctly.

1 Safety Precautions

- The following two symbols are used to denote dangers that may be caused by incorrect use and their degree:

WARNING	This symbol denotes what could lead to serious injury or death if you misuse the PAC-SF41SCA.
CAUTION	This symbol denotes what could lead to a personal injury or damage to your property if you misuse the PAC-SF41SCA.

- After reading this installation manual, keep it in a place where the final user can see it anytime he or she wants to it. When someone moves, repairs or uses the PAC-SF41SCA, make sure that this manual is forwarded to the final user.

WARNING

Ask your dealer or technical representative to install the unit.
Any deficiency caused by your own installation may result in an electric shock or fire.

Install in a place which is strong enough to withstand the weight of the PAC-SF41SCA.
Any lack of strength may cause the PAC-SF41SCA to fall down, resulting in personal injury.

Firmly connect the wiring using the specified cables. Carefully check that the cables do not exert any force on the terminals.
Improper wiring connections may produce heat and possibly a fire.

Never modify or repair the PAC-SF41SCA by yourself.
Any deficiency caused by your modification or repair may result in an electric shock or fire.
Consult with your dealer about repairs.

Ensure that installation work is done correctly following this installation manual.
Any deficiency caused by installation may result in an electric shock or fire.

All electrical work must be performed by a licensed technician, according to local regulations and the instructions given in this manual.
Any lack of electric circuit or any deficiency caused by installation may result in an electric shock or fire.

Do not move and re-install the PAC-SF41SCA yourself.
Any deficiency caused by installation may result in an electric shock or fire.
Ask your distributor or special vendor for moving and installation.

To dispose of this product, consult your dealer.

CAUTION

Do not install in any place exposed to flammable gas leakage.
Flammable gases accumulated around the body of PAC-SF41SCA may cause an explosion.

Do not use in any special environment.
Using in any place exposed to oil (including machine oil), steam and sulfuric gas may deteriorate the performance significantly or give damage to the component parts.

Wire so that it does not receive any tension.
Tension may cause wire breakage, heating or fire.

Completely seal the wire lead-in port with putty etc.
Any dew, moisture, insects entering the unit may cause an electric shock or a malfunction.

Do not wash with water.
Doing so may cause an electric shock or a malfunction.

Do not install in any place at a temperature of more than 40°C or less than 0°C or exposed to direct sunlight.

Do not install in any steamy place such as bathroom or kitchen.
Avoid any place where moisture is condensed into dew. Doing so may cause an electric shock or a malfunction.

Do not install in any place where acidic or alkaline solution or special spray are often used.
Doing so may cause an electric shock or malfunction.

Use standard wires in compliance with the current capacity.
A failure to this may result in an electric leakage, heating or fire.

Do not touch any PCB (Printed Circuit Board) with your hands or with tools. Do not allow dust to collect on the PCB.
Doing so may cause fire or an electric shock.

Do not remove the insulation sheet on the PCB.
Doing so may cause an electric shock.

Do not touch any control button with your wet hands.
Doing so may cause an electric shock or a malfunction.

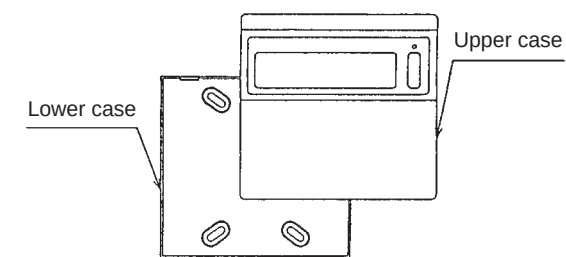
Do not press any control button using a sharp object.
Doing so may cause an electric shock or a malfunction.

Never contact the power supply with the control wiring terminals.
Doing so will certainly cause the controller to catch fire.

2 Confirming the Supplied Parts

Check that the box contains the following parts in addition to this manual:

(1) System remote controller (with upper and lower case)	1
(2) Cross recessed pan head screws (M4×30)	2
(3) Wood screws (4.1×16, for directly hooking to the wall)	2
(4) Room label	2
(5) Caution label (in 10 languages)	1
(6) Instruction book	2
(7) Emergency stop input cable	1



Use a maximum of 1.25 mm² cable for remote controller wiring. 0.75 mm² cable is recommended for ease of use.

NOTE: The remote controller cord is supplied on site.
Use a electric cable in accordance with the following specifications.
Electric cable specifications (CVV or CVVS)
With CVVS, be sure to insulate the cable shield so that it does not contact the terminal block.
The 1.25 mm² cable is for use as an extension.
• Up to 10 m 0.75 mm² twin-core cable
• Longer than 10 m ... 1.25 mm² twin-core cable (extension cord)

3 System Configuration

