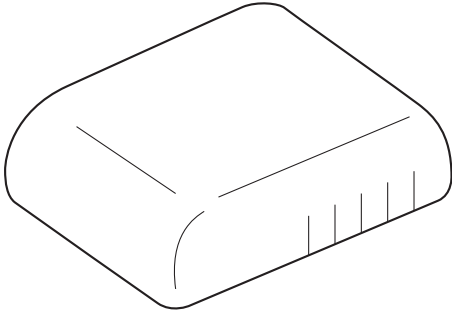# AIR CONDITIONER

INSTALLATION MANUAL
Remote sensor
For authorized service personnel only.

English

INSTALLATIONSANLEITUNG
Fernbedienungssensor
Nur für autorisiertes Personal.

Deutsch

MANUEL D'INSTALLATION
Capteur distant
Pour le personnel agréé uniquement.

Français

MANUAL DE INSTALACIÓN
Sensor remoto
Solo para personal autorizado.

Español

MANUALE D'INSTALLAZIONE
Sensore remoto
Ad uso esclusivo del personale autorizzato.

Italiano

ΕΓΧΕΙΡΙΔΙΟ ΕΓΚΑΤΑΣΤΑΣΗΣ
Απομακρυσμένος αισθητήρας
Για εξουσιοδοτημένο προσωπικό σέρβις.

Ελληνικά

MANUAL DE INSTALAÇÃO
Sensor remoto
Apenas para técnicos autorizados.

Português

РУКОВОДСТВО ПО УСТАНОВКЕ
Дистанционный датчик
Для уполномоченного персонала.

Русский

KURULUM KILAVUZU
Uzaktan kumanda sensörü
Yetkili servis personeli içindir.

Türkçe

CONTENTS

1. SAFETY PRECAUTIONS

**For safe installation and trouble-free operation, you must:**
• Carefully read this installation manual before beginning.
• Follow each installation or repair step exactly as shown.
• Observe all local, state and national electrical codes.
• Pay close attention to all danger, warning, and caution notices given in this manual.

⚠ WARNING	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.
• Installation and maintenance work must be performed by authorized company or service personnel only.	
• Turn off the power until installation is complete. It will cause electric shock.	
• Incorrect installation of the remote sensor can cause erroneous operation and electrical damage.	
• Installation work must be performed in accordance with national wiring standards by authorized personnel only.	
• Highly dangerous electrical voltages are used in this system. Carefully refer to the wiring diagram and these instructions when wiring. Improper connections and inadequate grounding can cause accidental injury or death.	

⚠ CAUTION	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.
• Do not cut or connect the cable. Cutting or connecting the cable will prevent accurate temperature detection.	
• Always ensure that wiring is installed firmly and correctly. Loose contacts will prevent accurate temperature detection.	
• Always ensure that cable is installed away from the influence of power cables and electrical noise.	
• Check heating and cooling operation once the remote sensor has been installed and wiring completed.	
• If the space for remote sensor mounting is not available in the living room, mount it at a place where the temperature representing the room temperature of living room can be sensed such as near a suction opening on the ceiling etc.	

• Let the customer keep this installation manual because it is used when the air conditioner is serviced or moved.

2. ACCESSORIES

The following parts are included in the kit.

Name and shape	Q'ty	Name and shape	Q'ty
Cable (10 m (33 ft))	1	Screw (M4 × 10 mm)	2
Screw (M4 × 16 mm)	2	Cable clamp	1

3. MOUNTING
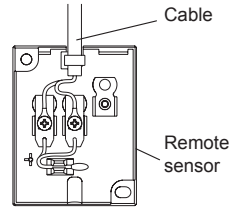
3.1. Selecting the mounting position

When detecting the room temperature using the remote sensor, please set up the remote sensor according to the following conditions.
If the remote sensor is not well set, the correct room temperature will not be detected, and thus the abnormal conditions like "not cooled" or "not heated" will occur even if the air-conditioner is running normally.
① A location with an average temperature for the room being air-conditioned.
② Not directly exposed to the outlet air from the air-conditioner.
③ Out of direct sunlight.
④ Away from the influence of other heat sources.
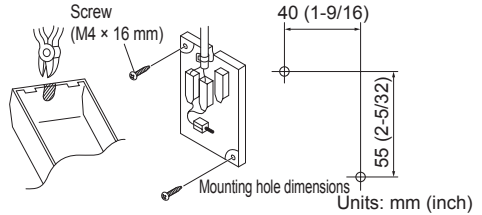⑤ Not directly exposed to the air entering the room when the door is opened.

3.2. Wiring (sensor wiring)

Remove the screws from the remote sensor, and remove the cover.
Connect the cable to the remote sensor as shown below.
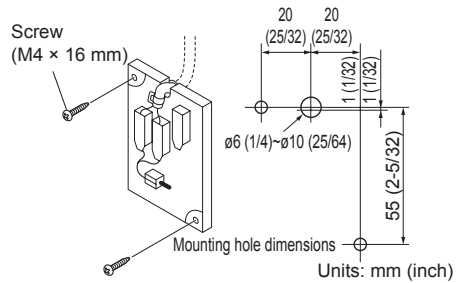Ensure that the wires do not contact each other.

Cable

Remote sensor

3.3. Installation

① When the cable is attached to the wall
  • Remove the material covering the wiring penetration (thin material) in the cover of the sensor unit with a pair of cutters. The cable passes through this hole.
  • Now the remote sensor on the wall using the screws.

Screw (M4 × 16 mm)

40 (1-9/16)

55 (2-5/32)

Mounting hole dimensions

Units: mm (inch)

② When the cable is buried in the wall
  • Remove the material (thinner than the surrounding material) in the wiring hole in the remote sensor using a pair of cutters.
  • Drill a hole in the wall for the cable.
  • Seal the area around the cable penetration with putty.

③ Fit the cover on the remote sensor and screw it in place.

Screw (M4 × 16 mm)

20 (25/32)   20 (25/32)

1 (1/32)   1 (1/32)

ø6 (1/4)~ø10 (25/64)

55 (2-5/32)

Mounting hole dimensions
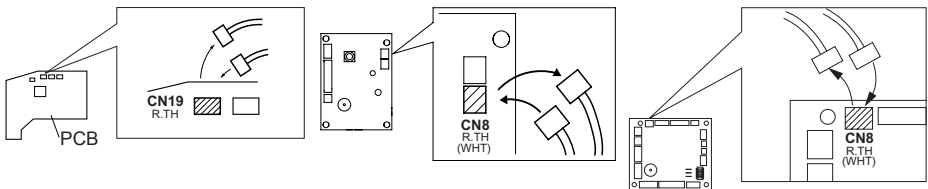
Units: mm (inch)

4. WIRING TO AIR-CONDITIONER

Install the wiring to the air-conditioner indoor unit as follows.
① Fasten the remote sensor cable onto the indoor electronic control unit. (If necessary, use a supplied screw (M4 × 10 mm) and the cable clamp.)
② Remove the existing connector and replace it with the remote sensor connector (ensure that the correct connector is used).

  • Type I

PCB

CN19
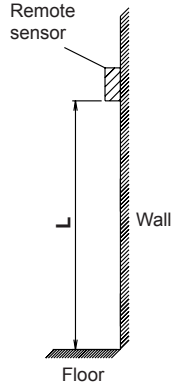R.TH

  • Type II

CN8
R.TH
(WHT)

  • Type III

CN8
R.TH
(WHT)

③ The original connector should be insulated to ensure that it does not come into contact with other electrical circuitry.

5. CHANGING THE ROOM TEMPERATURE CORRECTION VALUES

① DIP switch on the printed circuit board inside the electronic control unit was set at the factory for sensing the intake air into the indoor unit.

② The following changes must be made to the settings of DIP switch if the unit is to be used with the remote sensor (sensing the room temperature).

[For VRF Systems]

(When the model name of the indoor unit ends in "F" or "R".)

③ Set DIP switches as follows.
   SW1-3: OFF   SW1-4: ON
   SW2-1: OFF
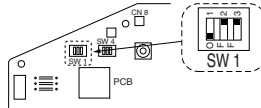
(When the model name of the indoor unit ends in "H".)

③ Set up the functions as follows referring to Installation Manual of the indoor unit and the remote controller or Design and Technical Manual.
   Function Number "30" : Set Setting Number to "00" (Default)
   Function Number "31" : Set Setting Number to "02"

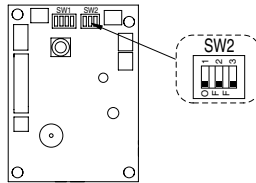[For Other Systems]

(Applicable only to "HEAT & COOL MODEL")

③ Set DIP switch according to the height (L) of the remote sensor from the floor.

Remote sensor

Wall

Floor

• Type I

L	SW1-2	SW1-3		Correction Value
0 < L ≦ 1 m (0 < L ≦ 39")	OFF	ON		0
1 m < L ≦ 2 m (39" < L ≦ 79")	OFF	OFF		+2 °C (+4 °F)
2 m < L (79" < L)	ON	ON		+4 °C (+8 °F)

• Type II

L	SW2-1		Correction Value
0 < L ≦ 2 m (0 < L ≦ 79")	ON		0
2 m < L (79" < L)	OFF		+4 °C (+8 °F)

• Type III

Perform room temperature correction for both of cooling and heating with the "FUNCTION SETTING" of remote controller to the models the PCB (Printed Circuit Board) described in Type III of preceding paragraph "4.WIRING TO AIR-CONDITIONER" is used.

L	Function Number	Setting Value
0 < L < 1.5 m	30 31	01
1.5 m < L	Setting is not required	