

# MANUFACTURED FOR: MITSUBISHI ELECTRIC US, INC.

Wireless Interface

## PAC-USWHS002-WF-1

### INSTALLATION/INSTRUCTION MANUAL

**FOR INSTALLER**

Before using the device, carefully read this installation/instruction manual to ensure proper operation.

Keep this manual for future reference and give it to the technician when the device is reinstalled or repaired.

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### About Wireless Interface

This Wireless Interface will communicate status information and control the connected air conditioner.

- Some room air conditioners are not compatible with the Wireless Interface. Make sure that the room air conditioner is compatible with the Wireless Interface before attempting to install the Wireless Interface.

### 1. Safety Instructions

- Read all Safety Instructions before using the Wireless Interface.
- This installation manual contains important safety information. Be sure to comply with the instructions.

 Warning	Improper handling may have serious consequences, including serious injury or death.
 Caution	Improper handling may have consequences, including injury or damage to house.

- After installing the Wireless Interface, provide this installation manual for the user. Instruct users to store it with their room air conditioner instruction manual in a safe location.



## Warning

- **Users should not install the Interface on their own.**

Improper installation may result in fire, electric shock, or damage/water leaks. Consult the dealer from whom you purchased the unit or professional installer.

- **The Interface should be securely installed in accordance with this installation manual.**

Improper installation may result in fire, electric shock, or damage.

- **The unit should be mounted in a location that can support its weight.**

If the unit is installed in a location that cannot support its weight, the Wireless Interface could fall and cause damage.

- **Install securely in a place where the wireless interface does not interfere with equipment operation or serviceability.**

Improper installation may result in fire, electric shock, or damage/water leaks.

- **Do not install wireless interface inside a metal enclosure.**

Improper installation may result in diminished signal strength.

- **Connect and fasten the electric wires securely so external force on the wires will not apply on the terminals.**

Improper connection and mounting may result in breakdown, heat generation, smoke generation, or fire.

- **Mitsubishi components or other designated components must be used for installation.**

Improper component may result in fire, electric shock, or damage/water leaks.

- **Electrical work must be performed by a licensed professional using the instructions detailed in the installation manual.**

Inadequate circuit capacity or improper installation may result in electric shock or fire.

- **This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.**

- **Children should be supervised to ensure that they do not play with the appliances.**

- **This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:**

- (1) This device may not cause harmful interference; and
- (2) This device must accept any interference received, including interference that may cause undesired operation.



### **Warning**

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

### **Warning**

- This equipment complies with radio frequency exposure limits set forth by the FCC for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm., 7.8 inch between the device and the user or bystanders.
- This device must not be co-located or operating in conjunction with any other antenna or transmitter.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- Do not connect the Wireless Interface to earth inside the air conditioner.



## Caution

- **To prevent damage from static electricity, touch a nearby metal body to discharge static electricity from yourself before touching the Wireless Interface.**

Static electricity from the human body may damage the Wireless Interface unit.

- **Do not install the Wireless Interface in a place with much steam, such as bathroom.**

Avoid places where water is splashed or where condensation forms on walls. Installing in such places can cause electric shock or breakdown.

- **Do not install the Wireless Interface in places with direct sunlight or where the ambient temperature is 40° C, 104° F or more or is 0° C, 32° F or less.**

Direct sunlight and high or low temperature environments may cause the Wireless Interface to deform or breakdown.

- **Do not use in special environments.**

Use in places with much oil (including machine oil), steam, or sulfuric gas may lead to severe decrease in functionality and damage to parts.

- **Turn off power supply of connected equipment when performing construction or wiring work.**

Failure to turn off the power supply to the connected equipment may lead to malfunction or breakdown of the Wireless Interface or connected equipment.

- **Dismantling the indoor unit.**

Please refer to the indoor units "service manual" for detailed instructions for accessing the control interface connector CN105 on the indoor unit control PCB.

## Notes

- The End user should read and accept the Terms and conditions of the kumo cloud™ before commencement of the installation of PAC-USWHS002-WF-1.
- To complete connection of the PAC-USWHS002-WF-1 to the kumo cloud™ physical access to the access point may be required.
- Visit <http://kumocloud.com> for additional information about controlling the PAC-USWHS002-WF-1 from your web browser or smart phone.
- The PAC-USWHS002-WF-1 should not be installed and connected to any Mitsubishi Electric system which is to provide cooling or heating to critical applications.
- Details of the air conditioner and PAC-USWHS002-WF-1 can be recorded on page 6 'Setting Information'.
- Use of the PAC-USWHS002-WF-1 implies acceptance of our terms and conditions located at [kumocloud.com/terms](http://kumocloud.com/terms).
- The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.



Mitsubishi Electric's Wireless Interface is designed for communication to Mitsubishi Electric's kumo cloud™. Third party Wireless Interface devices cannot connect to Mitsubishi Electric's kumo cloud™. Mitsubishi Electric is not responsible for any (i) underperformance of a system or any product; (ii) system or product fault; or (iii) loss or damage to any system or product; which is caused by or arises from connection to and/or use of any third party Wireless Interface or any third party wireless or Wi-Fi service with Mitsubishi Electric equipment.

## 2. What's in the Box

- Wireless Interface with connecting cable
- Velcro strips (2)
- Product insert

## 3. Parts

Wireless Interface	PAC-USWHS002-WF-1
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## 4. Connecting the Wireless Interface

Note: Installation should be conducted by a professional installer.

- Turn off and verify the power has been disconnected to the complete air-conditioning system
- Dismantle the indoor unit in accordance with the service manual and locate CN105 on the main control PCB
- Connect the cable on the PAC-USWHS002-WF-1 to the CN105 connector on the indoor unit
- PAC-USWHS002-WF-1 may be attached on or in close vicinity to the indoor unit. Attach one strip to the PAC-USWHS002-WF-1 and the other to the installation site. Align the strips and press to securely attach the PAC-USWHS002-WF-1 to the installation site.
- Start up: Refer to the PAC-USWHS002-WF-1 Install guide located at <https://meus.mylinkdrive.com/item/PAC-USWHS002-WF-1.html>.



## 5. Specifications

Input Voltage		DC12.7V (from indoor unit)
Power consumption		MAX 2W
Size W × H × D	Inch (mm)	.69 x 1.82 x 2.92 (17.526 x 46.228 x 74.168)
RF channel		1ch ~ 11ch
Usage environment		Temperature 32 ~ 104° F (0 ~ 40° C)
FCC		2AIGCWFB002

### Setting information

PAC-USWHS002-WF-1 address (MAC)	
PAC-USWHS002-WF-1 serial number(ID)	
Indoor unit model name	
Indoor unit serial number	
Outdoor unit model name	
Outdoor unit serial number	
System commissioning date	
PAC-USWHS002-WF-1 installation date	

### Installer contact details

Name	
Telephone number	







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