

# MANUFACTURED FOR: MITSUBISHI ELECTRIC US, INC.

Wireless Interface 2

## PAC-USWHS002-WF-2

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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### 1. About Wireless Interface 2



Wireless Interface 2 allows the kumo cloud® app to communicate with and control the air conditioner remotely. To enable this communication and control, Wireless Interface 2 needs to be configured with a wireless router connected to the internet.

#### ATTENTION

- The Wireless Interface 2 **must** connect to a 2.4 GHz Wi-Fi network.
  - The Wireless Interface 2 will **not** work on a 5 GHz Wi-Fi network.
    - The Wireless Interface can only connect to Wi-Fi channels 1-11.
  - For the best performance connect the Wireless Interface to a 2.4 GHz only SSID, but there are some multi-band Wi-Fi networks that can correctly manage a 2.4 GHz only device.
    - Please verify if your multi-band Wi-Fi router can manage 2.4 GHz only devices.
- Some room air conditioners are not compatible with the Wireless Interface 2. Make sure that the room air conditioner is compatible with the Wireless Interface 2 before attempting to install it.

## 2. Safety Instructions

- Read all Safety Instructions before using the Wireless Interface 2.
- This installation manual contains important safety information. Be sure to comply with the instructions.

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

- After installing the Wireless Interface 2, provide this installation manual to the user. Instruct users to store it with their room air conditioner instruction manual in a safe location.

### **Warning**

**Do not use the red 5-pin connector to create an unsupported equipment combination.**

Unsupported equipment combinations may result in fire, electric shock and/or damage/water leaks. Refer to the Wireless Interface 2 compatibility guide for more details.

- **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 a 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 2 could fall and cause damage.

**Install securely in a place where the Wireless Interface 2 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 2 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.

## Warning

- 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.
- 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.
- **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 7.87 in. (20 cm) 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 2 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 2.**  
Static electricity from the human body may damage the Wireless Interface 2 unit.
- **Do not install the Wireless Interface 2 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 2 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 2 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 2 or connected equipment.
- **Dismantling the indoor unit.**  
Please refer to the indoor unit's "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 kumo cloud® before commencing installation of PAC-USWHS002-WF-2. Use of the PAC-USWHS002-WF-2 implies acceptance of our terms and conditions located at [kumocloud.com/terms](http://kumocloud.com/terms).
- To complete connection of the PAC-USWHS002-WF-2 to kumo cloud®, physical access to the access point may be required.
- Visit [kumocloud.com](http://kumocloud.com) for additional information about controlling the PAC-USWHS002-WF-2 from your web browser or smart device.
- The PAC-USWHS002-WF-2 should not be installed and connected to any Mitsubishi Electric system that provides cooling or heating to critical applications.
- Details of the air conditioner and PAC-USWHS002-WF-2 can be recorded on page 6 'Setting Information'.
- 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 2 is designed for communication to Mitsubishi Electric's kumo cloud®. Third-party Wireless Interface 2 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 2 or any third-party wireless or Wi-Fi service with Mitsubishi Electric equipment.

### 3. What's in the Box

- Wireless Interface 2 with two removable plugs for optional connections
- Connecting cable
- Velcro strips (2)
- Product insert

### 4. Parts

Wireless Interface 2	PAC-USWHS002-WF-2
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### 5. Connecting the Wireless Interface 2 to the Indoor Unit

1. Power down the entire system.
2. Plug one end of the connecting cable into the white connector on the Wireless Interface 2.
3. Disassemble the necessary indoor unit components, locate the CN105 connector on the indoor unit control board, and plug in the other end of the connecting cable.
4. Select an empty spot in or around the indoor unit to mount the Wireless Interface 2, then attach one Velcro strip to the device, and one to the desired mounting location. Align the Velcro strips and press down firmly to create a secure attachment.
5. Start up: Refer to the kumo cloud® Technician Manual for the installer. To view the manual:
  - (i) Go to [mylinkdrive.com](https://mylinkdrive.com)
  - (ii) Select the required product market.
  - (iii) Click **Controls** and go to the **kumo cloud** section.
  - (iv) Under **kumo cloud Devices**, click **PAC-USWHS002-WF-2** and then click **Technician Manual**.



## IMPORTANT NOTE

The red connector on the Wireless Interface 2 provides a way for technicians to connect it to an MHK1 or MHK2 remote controller. This connector is not compatible with any other components, controllers, or accessories offered by Mitsubishi Electric. Make sure *not* to use this connector to connect to the indoor unit, as it will result in a failure of communication. Not all indoor unit models are compatible with the Wireless Interface 2 and the MHK1, so it is recommended to confirm compatibility by visiting [mylinkdrive.com](https://mylinkdrive.com) and reviewing the compatibility charts.



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## 6. 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	2AIGCWFB003	

Wi-Fi Band	2.4 GHz only
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### Setting information

PAC-USWHS002-WF-2 address (MAC)	
PAC-USWHS002-WF-2 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-2 installation date	

### Installer contact details

Name	
Telephone number	

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This device is designed and intended for use in the residential, commercial and light-industrial environment.

kumo cloud is a registered trademark of Mitsubishi Electric US, Inc.

Please be sure to put the contact address/telephone number on this manual before handing it to the customer.

**mitsubishi electric us, inc.**

[www.mitsubishielectric-usa.com](http://www.mitsubishielectric-usa.com)

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