

# MANUFACTURED FOR: MITSUBISHI ELECTRIC US, INC.

## PAC-USWHS003-TH-1

Wireless Temperature And Humidity Sensor

### 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.

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### 1. About the Wireless Temperature and Humidity Sensor

The Wireless Temperature and Humidity Sensor senses temperature and humidity in your living space and communicating with your wireless interface, allows you to manage the comfort in a particular zone. Installation and configuration of this device is done through the kumo cloud™ app.

## 2. Safety Instructions

- This installation manual contains important safety information.
- Read all Safety Instructions before using this wireless sensor.
- Be sure to comply with the instructions.
- Mitsubishi Electric components or other designated components must be used for installation and proper operation.
- This device is meant for indoor use only.

⚠ 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


## 3. Notes

- Use of this device implies acceptance of our terms and conditions located at [kumocloud.com/terms](http://kumocloud.com/terms).
- Visit [kumocloud.com/resources](http://kumocloud.com/resources) for additional information about setting up and controlling this device from your web browser or mobile device.
- 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 the 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 20 cm, 7.8 inches between the device and the user or bystanders.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## 4. What's in the Box

- Wireless Temperature and Humidity Sensor
- Coin battery CR2477 - installed
- Double-sided adhesive disc
- Installation Manual

## 5. Installing the Wireless Temperature and Humidity Sensor

 We recommend commissioning the Wireless Temperature and Humidity Sensor to your wireless interface before affixing it to the wall.

Please visit [kumocloud.com/resources](http://kumocloud.com/resources) for the kumo cloud™ installation manual for details regarding commissioning this wireless sensor and return to this guide for installing in your desired location.

- Remove the wireless sensor and double-sided adhesive strip from packaging.
- To activate your wireless sensor, pull the insulator tab completely out and it will power on the sensor.
- Peel away one side of the adhesive strip and apply it to the backside of the wireless sensor, pressing firmly.
  - The backside can be identified by the side with the FCC ID printed on it.
  - The small hole on the front, should be facing the room. This hole should remain unimpeded for sensing purposes.
- Find a location to install your wireless sensor. The device should be placed in an area allowing it to monitor and sense the room. (Recommended placement is within 10 ft of wireless interface or indoor unit, unobstructed)
  - The wireless sensor will work best when placed in an open area of the room allowing it to sense the greatest area without obstruction.
  - Do not place the wireless sensor in direct sunlight, near vents or window openings, or in enclosed areas such as drawers, cabinets, behind furniture or curtains, drafts, radiators, fireplaces, or on exterior walls.
- Peel away the other side of the adhesive strip and press firmly to the wall or surface to mount. Allow to remain undisturbed at least 24 hours to ensure it is bonded securely to surface. Bond should be 100% after 72 hours from application. Do not move once adhered.
  - Ensure surface is clean and dry before adhering. Substrates are best prepared by cleaning with 50:50 mixture of isopropyl alcohol and water.
  - Rigid surfaces may require 2 or 3 times more pressure to ensure adhesion.
  - Ideal application temperature range is 70°F to 100°F (21°C to 38°C).

## 6. About the Battery

- The wireless sensor uses CR2477 coin battery.
- Battery can be replaced by popping off the front cover of the device, removing the expired battery and replace it with the new. Refer to kumo cloud™ Owner's Manual online for specific details.

To replace battery:

- Pop off front cover.
- Gently lift electronic board from case and flip over to reveal battery compartment. Be careful not to excessively pull the wires attaching the board to the case.
- Nudge expired battery out by pushing through holes until it slides free of the compartment.
- Replace new battery with positive (+) side facing up and negative side facing the back of the electronic board. You will hear a faint chime/ringing sound as the battery is inserted. This will indicate it has been installed correctly.
- Replace the board inside the case with electrical components facing open part of case.
- Replace cover, being sure to align holes and pressing firmly until it snaps back into place.

Note: Small hole must be over sensor or device will not correctly sense temperature and humidity.

For images and more specific details, refer to online kumo cloud™ Installation manual at [kumocloud.com/resources](http://kumocloud.com/resources).

Homeowners/Users should refer to the Wireless Sensor section of the kumo cloud™ Owners manual online at [kumocloud.com/resources](http://kumocloud.com/resources).

## 7. Specifications

Battery	3V CR2477 coin
Operation Voltage	2.0 – 3.6V DC
Operation Frequency	2400 – 2483.5MHz
Transmission Distance (typical)	33 feet (unobstructed)
Temperature Operating Range	0° – 40°C, $\pm 3^{\circ}\text{C}$ 32° - 104°F $\pm 5.4^{\circ}\text{F}$
Humidity Operating Range	0 – 80% RH, $\pm 5\%$ non-condensing
Size	40 x 40 x 16.5 mm
Weight	40g
FCC ID	2AB4P-IB004N PLUS-SHT





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

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

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

**Manufactured for MITSUBISHI ELECTRIC US, INC.**

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

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