

Panasonic®

Installation Guide

Home Network System Window/Door Sensor

Model No. **KX-HNS101FX**



Thank you for purchasing a Panasonic product.

This document explains how to install the window/door sensor properly.

For details about how to use the system, refer to the User's Guide (page 17).

Please read this document before using the unit and save it for future reference.

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Accessory information

Supplied accessories

No.	Accessory item/Part number	Quantity
①	Battery*1	1
②	Mounting screws (20 mm)*2	4
③	Mounting double-sided tapes*3	3

*1 When replacing the battery, see “Power source” of “Specifications”, page 18 for battery information.

*2 2 screws for the sensor unit and 2 screws for the magnet unit

*3 2 pieces of tape for the sensor unit
1 piece of tape for the magnet unit



Other information

- Design and specifications are subject to change without notice.
- The illustrations in these instructions may vary slightly from the actual product.

Trademarks

- iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.
- Android is a trademark of Google Inc.
- Microsoft, Windows, and Internet Explorer are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- All other trademarks identified herein are the property of their respective owners.

About this system

- This system is an auxiliary system; it is not designed to provide complete protection from property loss. Panasonic will not be held responsible in the event that property loss occurs while this system is in operation.
- The system's wireless features are subject to interference, therefore functionality in all situations cannot be guaranteed. Panasonic will not be held responsible for injury or damage to property that occurs in the event of wireless communication error or failure.

For your safety

To prevent severe injury and loss of life/property, read this section carefully before using the product to ensure proper and safe operation of your product.

WARNING

Power connection

- Use only the power source marked on the product.
- Do not connect non-specified devices.

Installation

- To prevent the risk of fire or electrical shock, do not expose the product to rain or any type of moisture.
- Do not place or use this product near automatically controlled

devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction resulting in an accident.

- Keep small parts (magnet unit, magnet unit cover, screws, etc.) out of the reach of children. There is a risk of swallowing. In the event they are swallowed, seek medical advice immediately.

Operating safeguards

- Do not disassemble the product.

Medical

- Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. DECT features operate between 1.88 GHz and 1.90 GHz with a peak transmission power of 250 mW.
- Do not use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

CR Lithium battery

- Do not recharge, disassemble, remodel, heat or throw it into fire.
- Do not touch the terminals \oplus and \ominus with metal objects.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used battery according to local regulations.

- If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.
- If any electrolyte should come into contact with your eyes, never rub your eyes. Rinse your eyes thoroughly with water, and then consult a doctor.

CAUTION

General information

- Do not place magnetic cards or similar objects near the sensor unit and magnet unit. Magnetic data on the cards, etc. may be deleted.

CR Lithium battery

- Use only the battery noted on page 3.
- Insert the battery correctly.
- Do not leave the battery in an automobile exposed to direct sunlight for a long period of time with the doors and windows closed.
- Remove the battery if you do not use the product for a long period of time. Keep it in a cool, dark area.
- Do not replace a battery with wet hands.
- Keep out of the reach of small children. There is a risk of swallowing. If the battery is swallowed, seek medical attention immediately.
- Remove the battery if it becomes unusable. There is a risk of leakage, overheating, and rupture. Do not attempt to use a battery if it is leaking.
- Exercise care when handling the batteries. Do not allow conductive materials such as rings, bracelets, or keys to touch the batteries,

otherwise a short circuit may cause the batteries and/or the conductive material to overheat and cause burns.

Important safety instructions

When using your product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Do not use this product near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool.
2. Use only the batteries indicated in this document. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

For best performance

Hub location/avoiding noise

The hub and other compatible Panasonic devices use radio waves to communicate with each other.

- For maximum coverage and noise-free communications, place your hub:
 - at a convenient, high, and central location with no obstructions between the product and hub in an indoor environment.

Important Information

- away from electronic appliances such as TVs, radios, personal computers, wireless devices, or other phones.
- facing away from radio frequency transmitters, such as external antennas of mobile phone cell stations. (Avoid putting the hub on a bay window or near a window.)
- If the reception for a hub location is not satisfactory, move the hub to another location for better reception.

Environment

- Keep the product away from electrical noise generating devices, such as fluorescent lamps and motors.
- The product should be kept free from excessive smoke, dust, high temperature, and vibration.
- The product should not be exposed to direct sunlight.
- Do not place heavy objects on top of the product.
- The product should be kept away from heat sources such as radiators, cookers, etc. It should not be placed in rooms where the temperature is less than -10 °C or greater than 40 °C. Damp basements should also be avoided.
- Operating the product near electrical appliances may cause interference. Move away from the electrical appliances.

Other information

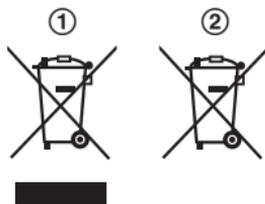
CAUTION: Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

Routine care

- Wipe the outer surface of the product with a soft moist cloth.
- Do not use benzine, thinner, or any abrasive powder.

Disposal of Old Equipment and Batteries (Only for European Union and countries with recycling systems)



These symbols (①, ②) on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment. For more information about collection and recycling, please contact your local municipality.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

These symbols (①, ②) are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol

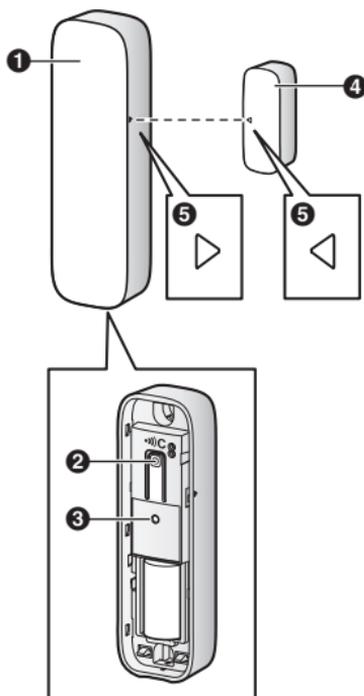
This symbol (②) might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Note for the battery removal procedure

Refer to “Inserting the battery” on page 9.

Part names and functions

- Sensor unit
- Magnet unit



- 1** Sensor unit cover
- 2** **[••)C]**
Used to confirm the status of the sensor or register the sensor to the hub.
- 3** LED indicator
- 4** Magnet unit cover
- 5** “▷” marks
Used to align the sensor and the magnet unit when installing them (page 11).

LED indicator

You can press **[••)C]** and check the LED indicator to confirm the sensor's status.

After confirming the sensor's status, we recommend turning the LED indicator off by pressing **[••)C]** again as soon as possible, otherwise battery life may be reduced.

Indicator	Status
Green, lit	Window/door is closed
Red, lit	Window/door is open
Red, blinking	Sensor is out of range of the hub
Green, blinking slowly	Registration mode (You pressed and held [••)C])
Off	No battery power

Note:

- The LED indicator does not indicate sensor status if the sensor has not been registered (page 9).

Setup overview

- 1 Initial setup**
Make sure you can access the system using your mobile device. For details, refer to the System Setup Guide included with your hub.
- 2 Insert the battery**
The window/door sensor is battery powered.

3 Registration

Required only if the window/door sensor was purchased separately (i.e., not as part of a bundle).

4 Confirm the installation area

Read the information in this document to confirm that the desired installation area is suitable to proper operation.

5 Temporary placement

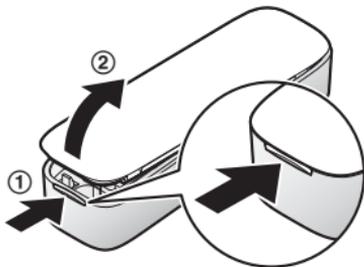
Temporarily place the window/door sensor in the desired location and confirm that it operates properly (page 11).

6 Installation

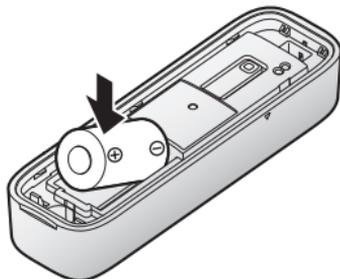
Install the window/door sensor on the same position where proper operation was confirmed (page 14).

Inserting the battery

- USE ONLY a CR2 Lithium battery.
 - Confirm the polarities (+, -).
- 1 Remove the sensor unit cover.
 - Lift from the indented area (①) and open the sensor unit cover (②).



- 2 Insert the battery.



- 3 Attach the sensor unit cover.

Registering the window/door sensor

This procedure is not required for devices that were included as part of a bundle.

Before you can use the window/door sensor, it must be registered to the hub. If you purchased devices separately (i.e., not as part of a bundle), you must register each device to the hub.

You can register each device by using the registration buttons or the **[Home Network]** app.

Using registration buttons

- 1 **Hub:**
Press and hold **[•]C OTHER DEVICE]** until the LED indicator blinks slowly in green.
- 2 **Window/door sensor:**
Remove the sensor unit cover and press and hold **[•]C]** until the LED indicator blinks slowly in green (page 8).

Setup

- When registration is complete, the hub sounds one long beep.

Note:

- To cancel without registering the sensor, press **[🔊]C** on the hub and on the sensor again.
- If registration fails, the hub sounds several short beeps.

Using the app

When you register the window/door sensor by using the **[Home Network]** app, you can assign a name to your devices and group them by location. For more information, refer to the User's Guide (page 17).

Changing the sensor type

You can select whether a window/door sensor functions as a window sensor or as a door sensor. For more information, refer to the User's Guide (page 17).

Wireless communication range

The wireless communication range of each device in the system from the hub is approximately 50 m indoors and approximately 300 m outdoors. Wireless communication may be unreliable when the following obstacles are located between the hub and other devices.

- Metal doors or screens

- Walls containing aluminium-sheet insulation
- Walls made of concrete or corrugated iron
- Double-pane glass windows
- Multiple walls
- When using each device on separate floors or in different buildings

Note:

- You can check the window/door sensor's communication status by pressing **[🔊]C**. If the LED indicator is lit in green or red, the sensor is communicating properly with the hub. If the LED indicator blinks in red, it is out of range of the hub.

Temporary placement

Before installing the window/door sensor, temporarily place it in the desired location and confirm that it operates properly by pressing **[•)]C]**.

Important:

- Attach the sensor unit to the window frame or door frame, and attach the magnet unit to the window or door.
- The window/door sensor will not operate properly if the “▷” marks are too far apart or are not pointing toward each other.
- Attach both units so that the “▷” marks point toward each other and are within 25.4 mm of each other.

Confirming proper operation

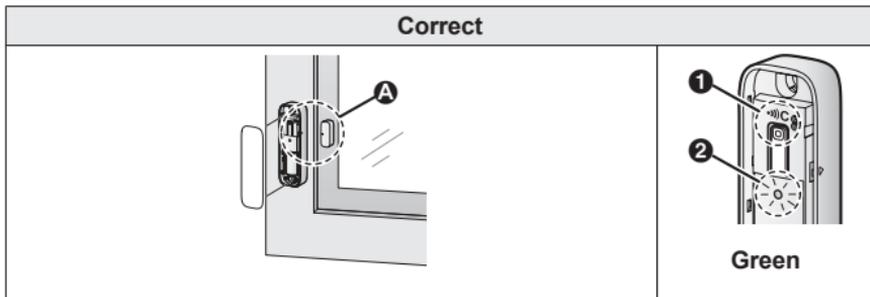
After temporarily placing the window/door sensor in the desired location, press **[•)]C]** while the window or door is closed. The window/door sensor's LED indicator lights as follows.

Indicator	Status
Green, lit	The installation position is correct.
Red, lit	The “▷” marks on the sensor unit and the magnet unit are too far from each other. Re-attach the sensor unit and the magnet unit so that they point directly at each other and are no more than 25.4 mm apart.
Red, blinking	The sensor unit is out of range of the hub. Refer to the information on page 10.

Note:

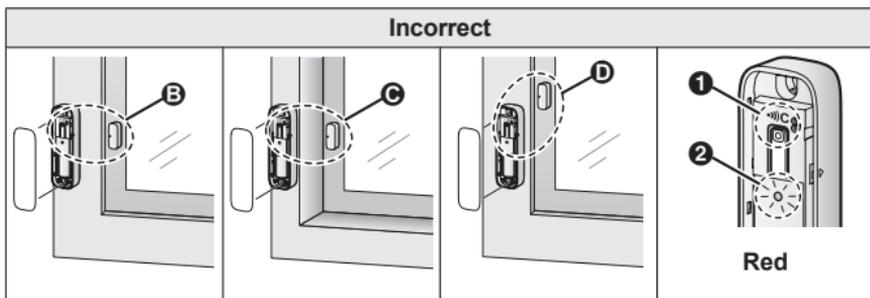
- Depending on the condition and material of the surface where the sensor unit and magnet unit are installed, the LED indicator may light in red even if the “▷” marks point directly at each other and are no more than 25.4 mm apart.

Example 1: Installed on the left side of a window



A “▷” marks point directly at each other and are within 25.4 mm of each other.

Result: When you press **[▶)C** (1), the LED indicator lights in green (2).



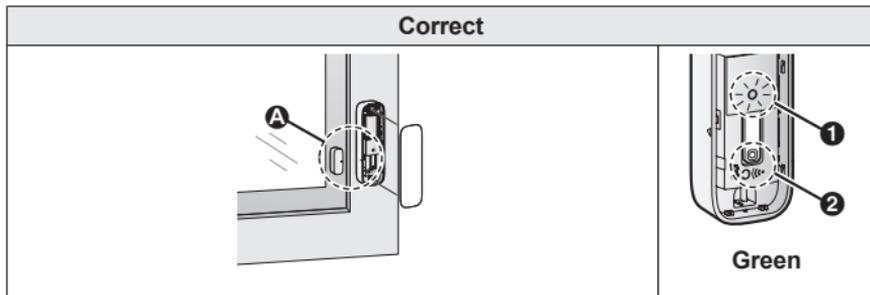
B “▷” marks are aligned but units are too far apart.

C “▷” marks are aligned but window frame is too thick; units are too far apart.

D “▷” marks are not aligned. Magnet unit is too high.

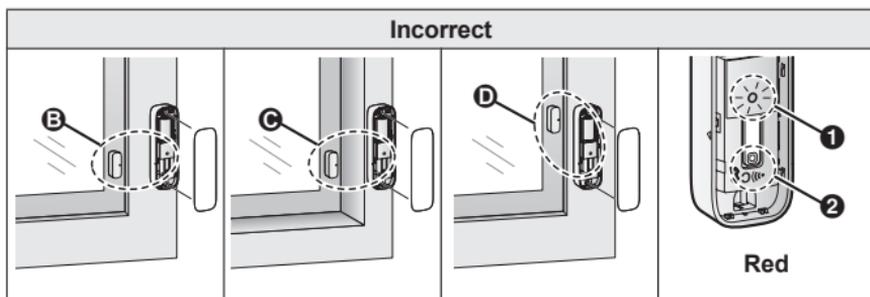
Result: When you press **[▶)C** (1), the LED indicator lights in red (2).

Example 2: Installed on the right side of a window



A “▷” marks point directly at each other and are within 25.4 mm of each other.

Result: When you press **[▶]C** (1), the LED indicator lights in green (2).



B “▷” marks are aligned but units are too far apart.

C “▷” marks are aligned but window frame is too thick; units are too far apart.

D “▷” marks are not aligned. Magnet unit is too high.

Result: When you press **[▶]C** (1), the LED indicator lights in red (2).

Installation

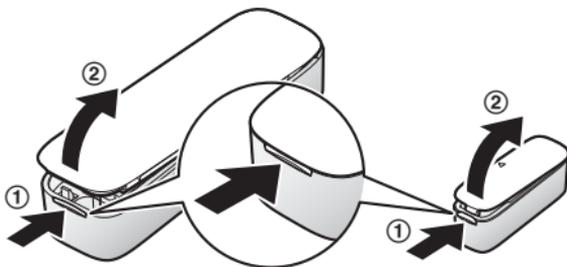
Install the window/door sensor in the same position where proper operation was confirmed (page 11). You can install the window/door sensor using screws or double-sided tape, depending on your preference or the material of the installation area.

Note:

- When installing, make sure the battery is inserted properly and the sensor unit cover is completely closed.
- Use screws when installing on a wooden surface. Do not use double-sided tape.

Securing with screws

- 1 Remove the covers from each unit.
 - Lift from the indented area (①) and open the sensor unit cover (②).



2 Sensor unit:

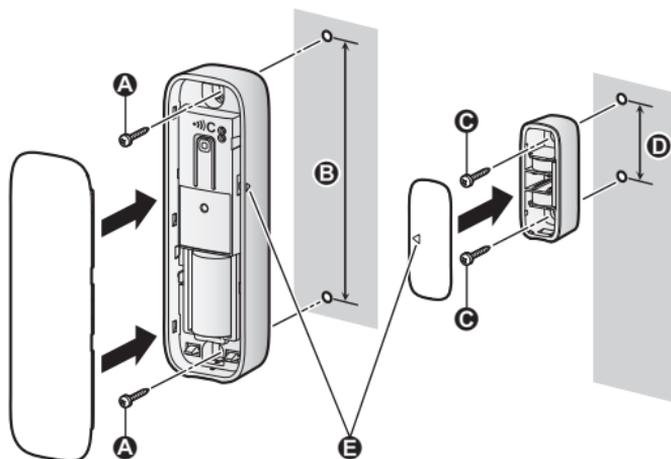
Attach the sensor unit.

- A** Screws
- B** 86.2 mm

Magnet unit:

Attach the magnet unit.

- C** Screws
- D** 24.4 mm

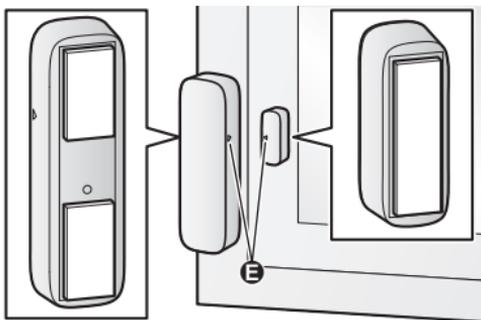
**3 Attach the covers.****Important:**

- **E** Align the “▷” marks on the sensor unit and the magnet unit so that they point directly at each other and are no more than 25.4 mm apart.

Securing with double-sided tape

Note:

- Make sure the surfaces of the sensor unit, magnet unit, and the installation area are clean and dry before applying double-sided tape.
- 1 Check that the sensor unit cover and magnet unit cover are attached.
 - 2 Affix double-sided tape to the sensor unit and magnet unit.
 - Make sure the tape covers the screw holes on the back of each unit.



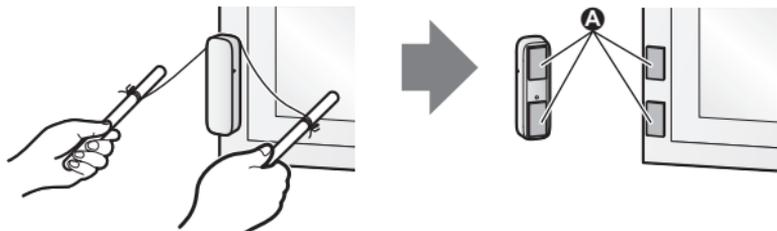
- 3 Install the sensor unit and magnet unit.
 - Press firmly on each unit to ensure solid adhesion to the installation surface.

Important:

- **E** Align the “▷” marks on the sensor unit and the magnet unit so that they point directly at each other and are no more than 25.4 mm apart.

Removing when secured with double-sided tape

- 1 Tie a piece of thread to two sticks, screwdrivers, etc.
- 2 Pull the thread tight and use it to cut the double-sided tape, and then remove any excess tape.
 - A** Excess tape



Testing the window/door sensor

You can check the window/door sensor's LED indicator and test the performance of the window/door sensor.

- 1 Remove the sensor unit cover.
- 2 Press **[•)]C]** on the sensor unit.
- 3 Open and close the window or door several times.
 - Make sure that the LED indicator lights in green when you close the window or door.
- 4 Press **[•)]C]** again.

Note:

- If the LED indicator lights in red when the window or door is closed, the window/door sensor is not installed properly. Re-evaluate the position of the sensor unit and magnet unit (page 11).

Features available when using the [Home Network] app

Some of the window/door sensor's features that are available when using the **[Home Network]** app are listed below. For more information, refer to the User's Guide (page 17).

- **Alarm system**
You can use the app to arm and disarm the alarm system, confirm the current status of the sensor, and view a log of previous events.
- **Sensor integration**

You can configure the window/door sensor to trigger other system events, such as camera recording, turning on an electric device (such as a lamp), etc. (Appropriate device required.)

– Telephone alert

You can configure the system to call a preprogrammed phone number when the window/door sensor is triggered.

Accessing the User's Guide

The User's Guide is a collection of online documentation that helps you get the most out of the **[Home Network]** app.

1 iPhone/iPad

Tap **☰** in the app's home screen.

Android™ devices

Tap **☰** or press your mobile device's menu button in the app's home screen.

2 Tap [User's Guide].

Note:

- Microsoft® Windows® Internet Explorer® 8 and earlier versions are not supported.
- Android 4.1 or later versions are recommended.
- You can also access the User's Guide at the web page listed below.



Specifications

- **Standards**
DECT (Digital Enhanced Cordless Telecommunications)
- **Frequency range**
1.88 GHz – 1.90 GHz
- **RF transmission power**
Approx. 10 mW (average power per channel)
250 mW (max.)
- **Power source**
Lithium battery CR2(CR15H270)
(1 × 3.0 V, 850 mAh)
- **Operating conditions**
-10 °C – 40 °C
- **Battery life**
Up to 2 years (when window/door is opened and closed 10 times a day, in an environment of 25 °C) when using a 3.0 V, 850 mAh battery. The battery life differs depending on the capacity of the battery used.
- **Dimensions (height × width × depth)**
Sensor unit: Approx. 102 mm × 31 mm × 22 mm
Magnet unit: Approx. 37 mm × 14 mm × 14 mm
- **Mass (weight)**
Sensor unit: Approx. 39 g, excluding the battery
Magnet unit: Approx. 8 g

For your future reference

We recommend keeping a record of the following information to assist with any repair under warranty.

Serial No.	Date of purchase
(found inside the sensor unit)	
Name and address of dealer	

Attach your purchase receipt here.

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