



PIR Sensor
(GR-302N)

Thank you for choosing GR.SMARTHOME products, the manual can be your guidance of installation and function features, it can help you to use our products completely and flexibly. Please keep it in good condition.

Safety Warning

Please read the manual throughout before using to make sure to use this unit safely.

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About using:

The manufacturer do not bear any responsibility in the case of the unit used by illegal operation which will cause damage or property lost

Maintenance

Under the warranty period, the unit is defected under the correct operation, the manufacturer will guarantee to keep the unit in repair if consumer can provide guarantee card and purchase receipt.

GR Technology International Limited

The manufacturer has rights to amend or improve the printing error, wrong information without any notice by any time; If you have some problems when using the manual, please feel free to contact us for asking help by writing immediately in order to let us solve the issues as soon as possible

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1.Product Introduction

The PIR sensor (GR-302N) is using Z-wave technology which is a new wireless communication technology based on radio frequency. The GR 302 N is a new design product which is short distance, low cost, low power consumption, high reliability. The user can use mobile intelligent terminal equipment to monitor if there is someone for trespass.



The PIR sensor can be associated with our company's alarm, switch and other electrical home appliances products. The products are widely used in the smart hotel, intelligent residential hall, smart home, smart city system. The user can use them flexibly according to their own demands.

2.Product Specification

Detection methods: Body Sensor.

Working Voltage: DC5V/1A (AAA 1.2V*4)rechargeable

Working Current: Static state <15mA

Alarm status <38mA

Detection Distance: 5-7m

Detection Angle: 110°

Working Temperature: -10℃~ +50℃

Operating Humidity = 80%

Communication Technology: Z-wave

Communication Frequency: 908.42MHz

Transmission Speed: 9.6/40/100 kbps

Transmission Distance:

Indoor 30M (the transmission distance will be involved with the environment of the indoor)

3.Operating Principle

In nature, any object more than the absolute temperature (-273) will produce infrared spectra. When no object is moved in the infrared photo detecting range, the pyroelectric infrared detector only sense the background temperature; when the object enters the alert area, the PIR sensor will detect the temperature between the moving object and the background one through Fresnel lens and the sensor will change the infrared signal into alarming signal.

4.Installation Instructions

Mount NI-MH rechargeable battery or use the USB power adapter. We suggest to use our Z-WAVE switch products to associate.

5.Products Usage

① Products Networking

This product should be used in together with Fairy top.



② Inclusion / Exclusion

This product adopts the switch with auto-locking. After the Z-Wave controller sends out the command to include or exclude, please press the button on the auto-locking switch 2 times

③ Standby status Working status

Z-wave button



Remarks : Please pay your attention that the detector cannot be set in the place where is over one meter distance from the controller. If the controller has not yet received the signal, please press the button for inclusion/exclusion several times

6. Device Association

This kind of PIR sensor can directly control another device which is also using Z-wave network, such as alarm, switch, shutter motor, etc.;

The PIR sensor can directly transmit the information between devices even without the controllers. PIR detectors can transmit the information even the controller is damaged, by disaster, such as a fire

The PIR sensor can support 5 associated groups for Z-wave device and each group can control 5 normal devices.

7. Maintenance

- 1 According to the requirements of the national standard GB50166-92, the sensor needs to be tested at least once in every half a year. And it needs to have cleaning and maintenance in every two years for the sensor which has been fixed.
- 2 The working performance for the sensor is mainly influenced by the quality of the environment. If the sensor is using the environment with dust or high wind speed, the maintenance period needs to be shortened.
- 3 Under one year guarantee period based on the date of manufacture, we will be responsible for free repair or replacement if the defected goods are caused by material or workmanship. If the unworking sensor is caused by a man-made damage, improper use or self-change, disassembling, it is not belong to the scope of warranty and the GR Smart Home will not take any responsibility.
- 4 The GR Smart Home company will take care the repair for the non warranty product. If you need to repair or assist, please contact us. Meanwhile, we hope to get some important information about the repair products from you, such as failure situation and reasons of the defect goods in order to find a solution in the shortest possible time. It also can provide reference to improve and perfect our products and the design.

8. Attention

- 1 Disclaimer: If there is function or software upgrade, GR Smart home won't have any further notice. The customer can contact with us to consult the relevant information. GR Smart home is qualified for the right of interpretation.
- 2 The product is forbidden to set in the place with direct sun exposure, high temperature, sharp pounding, chemical corrosion and much dust.
- 3 The use of this product should be far away from the fire source to prevent the occurrence of fire.
- 4 This product is connected to electric power shall not exceed the maximum load power.



Product Guarantee Card

Customer Name		Product type	
Telephone		Post Code	
Customer Address			
Purchasing Date			
Service Time	Repair Content	Satisfaction (YES/NO)	Signature Confirmation

Note: Please keep this warranty card in good condition.
We do not make up the lost.

Listing of the warranty

(Please mark "√" for the goods you have purchased ,)
Or, please mark "×" in the blank column

Fairy Top		Alarm	
Single Wire Switch Module		Vibration Detection Control Module	
Switch Module with Neutral and Live Wire		Alarm Button	
Door/window sensor		Two - relay Touch Switch with Neutral and Live Wires	
Smoke /Gas Sensor		Two - relay Touch Switch with Single Live Wire	
auto valve		Mini Tracker	
Plug in Socket On/off		Touch Dimmer Switch	
Telephone Alarm Device		Curtain Motor	
PIR sensor		Lifting Controller	
AV Infrared		AC Infrared	
Three- relay Touch Switch with Neutral and Live Wires		Three- relay Touch Switch with Single Live Wire	

Warranty Terms

Under the warranty period , the unit is defected under the correct operation, the manufacturer will guarantee to keep the unit in repair if consumer can provide guarantee card and purchase receipt . Please pay your attentions for the following things,

- Under one year guarantee period base on the date of manufacture, we will be responsible for free repair or replacement . We only charge the repair fee if it is over one year guarantee period .
- We will charge the repair fee in the conditions as below:
 - <1> Cannot provide the guarantee card and the effective purchase vouchers
 - <2> Beyond the guarantee period and the free repair period
 - <3> Failure and damage because of an error caused by improper use and self repair
 - <4> Defect due to the crash, extrusion, high temperature, corrosion, foreign body into the equipment, incorrect usage or and other abnormal reasons.
 - <5> Failure or damage due to force majeure like natural disasters, wars.
 - <6> Default caused by the repair and disassemble by the unauthorized repair agencies or some persons .
 - <7> Without clear label to show the factory's name or model No .
- Please send the repair goods together with your warranty card and receipt . The transportation cost will be bore by the user.
- The warranty terms will excluding the appearance of the product which easy to damage. And we won't repair the other parts which not show in the warranty card.
- Please keep the warranty card in good condition . We do not make up if lost

FCC ID: 2ACC6GR-302N

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.

The micro-USB port only supports Power function, do not support other functions.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.