PIR **sensor**

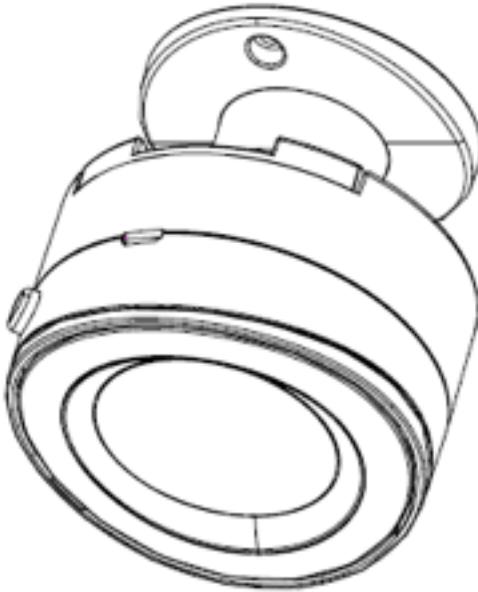# **GR-302N**

GR·SMART HOME

Thank you for choosing PIR sensor, 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 safety.,

Copyright

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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.

Product Introduction

This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated

nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

GR – 302N is new design product which is short distance , low cost, low power consumption, high reliability.

Product Specification

Installation Method: Magnetron
Working Voltage： 4xAAA / DC 5V
Working Current: <35mA (When it is triggered)
Sleeping Current: ：≤20uA
Working Temperature：-10℃~ +50℃
Operating Humidity ≤ 80%
Communication Technology：Z-Wave plus
Communication Frequency：868.42/908.42 MHz
Transmission Speed：9.6/40/100 kbps
Transmission Distance：outdoor 40M

Operating Principle

In nature, any object more than the absolute temperature (27.3 ºC) 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.
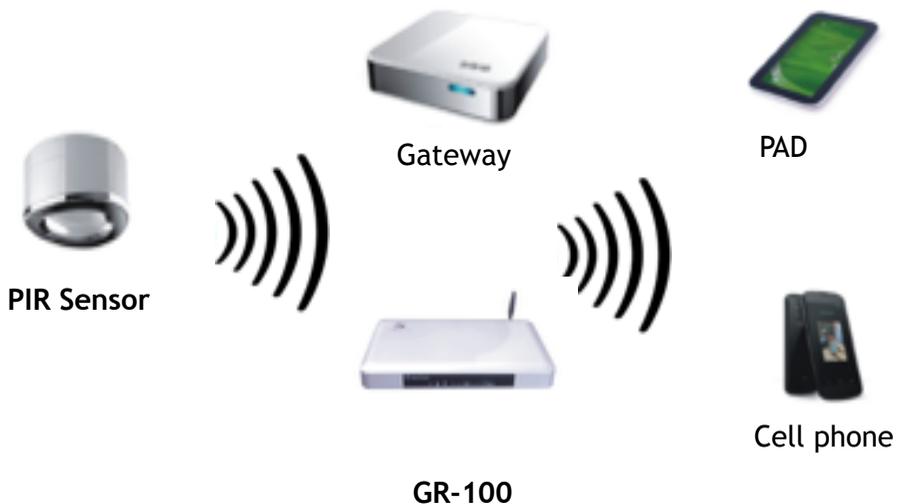
Installation Instructions

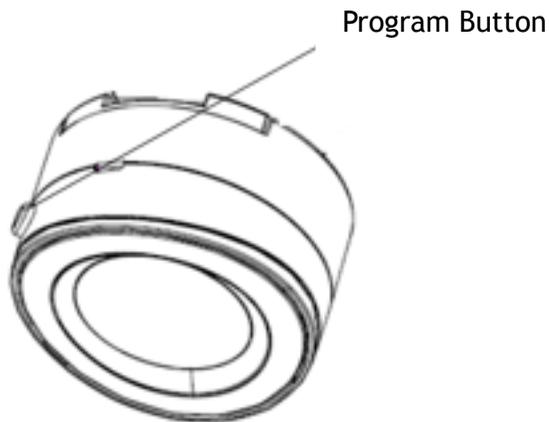Mount NI-MH rechargeable battery or use the USB power adapter .

Products Usage

Products Networking

This product should be used in together with Z-Wave controller.

Gateway

PAD

PIR Sensor

Cell phone

GR-100

Z-Wave install

Program Button

Inclusion(Add) / Exclusion(Remove)

Inclusion(Add):Please press the Z-Wave button in the pir sensor when the Z-Wave controller sends the instructions for inclusion, Press the Button: unlock and lock-unlock 1 time will send the NIF

Exclusion(Remove):Please press the Z-Wave button in the pir sensor when the Z-Wave controller sends the instructions for exclusion, Times to Press the Button: unlock and lock-unlock 1 time will send the NIF

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(add)/ exclusion(remove) several times.After do the inclusion(add) or

exclusion(remove), please fix the equipment in the place you want . Make sure the distance is under the operating range.

Association Capabilities

This pir sensor can directly control another device which is also using Z-Wave network.
Group 1-Lifeline can setting and support 5 nodes. (Group 2~5 is not support)
Group 1 support command_class:
COMMAND_CLASS_BATTERY Report
COMMAND_CLASS_BASIC Set
COMMAND_CLASS_NOTIFICATION Report
COMMAND_CLASS_DEVICE_RESET_LOCALLY Notification

Device Reset
Press the button unlock and lock-unlock 6 times the device will send the reset notification to the list node in the group 1 and erases the device memory.
Use this procedure only in the event that the network primary controller is missing or otherwise inoperable.

Device Wakeup
Press the button unlock and lock-unlock 1 times

Command Class support

Device Type: Sensor Notification
Device Role Type: Reporting Sleeping Slave(RSS)

COMMAND_CLASS_ZWAVEPLUS_INFO
COMMAND_CLASS_VERSION
COMMAND_CLASS_MANUFACTURE_SPECIFIC
COMMAND_CLASS_DEVICE_RESET_LOCALLY
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_BATTERY
COMMAND_CLASS_ALARM
COMMAND_CLASS_ASSOCIATION
COMMAND_CLASS_ASSOCIATION_GRP_INFO
COMMAND_CLASS_WAKE_UP

Notification type: Burglar (0x07)
Event: 0x00 is normal status, 0x08 is trigger
The Tampering Event is not used on this device.   button

Battery low warning

When only used the 4xAAA battery that is low than 2.8V PIR will send the battery low warning 0xFF to the list node in the group 1.
According to the requirements of the national standard GB50166-92 , the sensor need to be tested at least once in every half a year. And it need to have cleaning and maintenance in every two years for the sensor which has been fixed.

The working performance for the siren is mainly influenced by the quality of the environment. If the siren is working under the the environment with dust or high wind speed , the maintenance period need to be shorten

Under one year guarantee period base on the date of manufacture, we will be responsible for free repair or replacement if the defected goods are caused by material or workmanship .

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.

Attentions

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 Interpretation.

This product should be installed in the interior renovation completed, before installing this product should be stored in a the place which is dust proof, moisture pro of a mould proof.

Except the battery, there is no other part can be changed by the user. If there is any fault for the sensor , please contact us timely.

The battery is only a backup power use and not recommended as the main power supply

The product installation shall comply with the provisions of the state standard, reference GB50166-92 "code for construction and acceptance of automatic fire alarm system"

Product Guarantee Card

Customer Name		Product type	GR-309N
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.

- **Quality Assurance**

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 major natural disasters, wars caused

(6)Default caused by the repair and disassemble by the unauthorized repair agencies or some persons 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