

User's Manual

Z-Wave Wall-mount PIR Motion Sensor

HZS-100E / HZS-100A





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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.



CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User's Manual of PLANET Z-Wave Wall-mount PIR Motion Sensor Model: HZS-100 Rev: 1.00 (October, 2015) Part No. EM-HZS-100 Series_v1.0.doc



Table of Contents

Chapter 1. Product Introduction	5
1.1 Package Contents	
1.2 Overview	5
1.3 Specifications	7
Chapter 2. Hardware Interface	8
Chapter 3. Z-Wave Device Setting	9
3.1 Configuring Z-Wave Device via HAC-1000	
3.2 Configuring Z-Wave via Smart Phone	12
3.3 Configuring Z-Wave via HTS-1000P	17
Appendix A: Troubleshooting & Frequently Asked Questions	27



Chapter 1. Product Introduction

1.1 Package Contents

The package should contain the following:

- PIR Sensor x 1
- Quick Installation Guide x 1
- CR123A Lithium Battery x 1
- Accessory Bag x 1



If any of the above items are missing, please contact your seller immediately.

1.2 Overview

Home Automation and Smart Home Control

The HZS (Z-Wave Sensing Device) series of PLANET Home Automation product family, based on Z-Wave technology, provides the advanced security system that protects your home and family 24/7. Easy operation and flexible configuration are the attractive features of our system; the simple one-touch button lets you program your regular settings according to your preference and operation mode. Worked with PLANET HAC-1000 Z-Wave Home Automation Control Gateway, you get the all-round and reliable home security services that we offer. Our full range of product lines ensure that you get all the devices you need for your home security system.





Motion and Temperature Detection

PLANET HZS-100 is a Z-Wave wall-mount PIR motion sensor that monitors movement and sends Z-Wave signal when movement is detected. With its built-in temperature sensor feature, the HZS-100 will send the signal out when temperature inside the building changes.



Getting Started is as Easy as 1-2-3

- 1. Via the Cloud Home App (including Home Automation Controller Pad and Control Gateway): Press **Inclusion/Exclusion** to include/exclude Z-Wave device.
- 2. On the Z-Wave device: Press the **Pair** button to establish a connection with the control gateway.
- 3. Users can enjoy and manage Z-Wave network right away.





Real-time Alarm

Alerts like use of electricity, home alarms and more can be brought to your notice without delays by way of cloud hosting. From now on, you can maintain your home security no matter where you are.



1.3 Specifications

Product	HZS-100A HZS-100E			
Hardware and Network				
Z-Wave Frequency	America: 908.42MHz	Europe: 868.42MHz		
Installation Height	About 2 meters			
PIR Detecting Distance	3~10 meters			
PIR Detecting Angle	120 degrees coverage			
Operating Range	Up to 30 meters in open space			
Installation	Plug connection for indoor use			
General				
Power Requirements	CR123A 3V			
Operating Temperature	-15 ~ 40 degrees C			
Operating Humidity	0 ~ 90% (non-condensing)			
Weight	75g			
Dimensions (W x D x H)	84 x 62 x 50 mm			
Emission	CE, FCC			

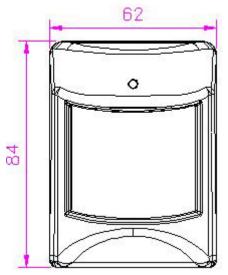




Chapter 2. Hardware Interface

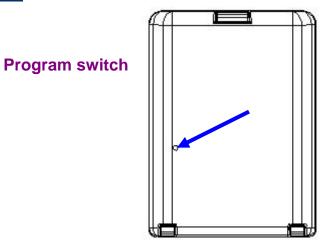
Model	HZS-100E/HZS-100A		
Dimensions (W x D x H)	84 x 62 x 50 mm		
Weight	75g (gross weight)		

Front Panel



Interface Description			
PIR Sensor	PIR sensor is used to sense motion or detect whether a human has moved in or out of the sensor range.		
LED	When movement is detected, the red LED will flash once.		

Rear



Interface	Description
Program switch	Press to include or exclude a Z-Wave network.



Chapter 3. Z-Wave Device Setting

3.1 Configuring Z-Wave Device via HAC-1000

Please refer to the following steps to add Z-Wave device via HAC-1000 web.

	Settings	Device configuration
	Z-Wave Alarm Log	Include New Device Exclude Device Cancel Operation
÷	Topology	
	evice Configuration	
•	Door Lock Security	
,	Version Information	

Step 1. Include a Z-Wave device via web.

- a) Go to "Z-Wave" and click "Device Configuration".
- b) Click" Include New Device" and the screen will appear with "Add Device: Waiting for a user action."
- c) Use a paper clip or pin to press the program button on the back of the sensor for **1 time** to connect.



d) If your device has successfully been added, it will show "Add Device: Command has been completed successfully".





If the device didn't add successfully, please place the device next to the gateway and try again.



Step 2. Set up the location and room for Z-Wave device via HAC-1000 web.

Create a New Room					
	Room Name: Enter room name				
Change ICON	Add				
b. Edit device.					
Modify Device					
Product Name: HZS-100 Wall-mount Motion Sensor Device Name: PIR Sensor in 11F Room Name: 10F Office					
	Alarm Icon Change ICON				
Configuration					
Group					
Detect And Remove					
	Save				

Step 3. Create a scene via web.

a. Click "Create Scene" and nan	e new scene.
Create Scene	
	cene Name. Enter scene name
	Add

b. Select a device from this scene.

Big light on	×
Scene Name: Big light on 🧪	
Controlled Devices:	Select one device to add Select one device to add
B_Light (300)-Switc	Windows Sensor (500)-Mode Door Sensor (500)-Mode Flood Sensor (300)-Mode Flood Sensor (500)-Mode CO Detector (500)-Mode CO Detector (300)-Mode Strobe Alarm (300)-Switch Siren and Strobe Alarm (500)-Switch Siren and Strobe Alarm (500)-Mode TV (300)-Switch



c. Select ON or OFF from this scene.



d. You can click "RUN" to run this scene.

Click buttons to run the scene:					
Big Light ON	Big Light OFF	Small Light ON	Heater ON		
Small Light OFF	Heater OFF				

Step 4. Create trigger via web.

- a. Click "Create a Trigger" and name new trigger.
- b. Select a Z-Wave device for this trigger.
- c. Select when it triggers, it will alarm or bypass.
- d. Select when it triggers, it will run which scene.





After entering the time selected for the scene to trigger, tick "Save and send alarm notification". Tick "Active" to enable this trigger.

Trigger	PIR Motion X
PIR Motion	
3-in-1	Trigger: PIR Motion Device: PIR Motion (300)
Windows	Mode: Alarm
Door	Optional hide
CO (500)	After 5 / Seconds to run Siren off for
CO (300)	Save and send alarm notification: 🗹
Flood (300)	Active: 🔽
Flood (500)	Test Modify
Create Trigger	

3.2 Configuring Z-Wave via Smart Phone

The HAC-1100 can be used on iOS and Android operating system. **Cloud Home** can be downloaded at Google Play store or app store.

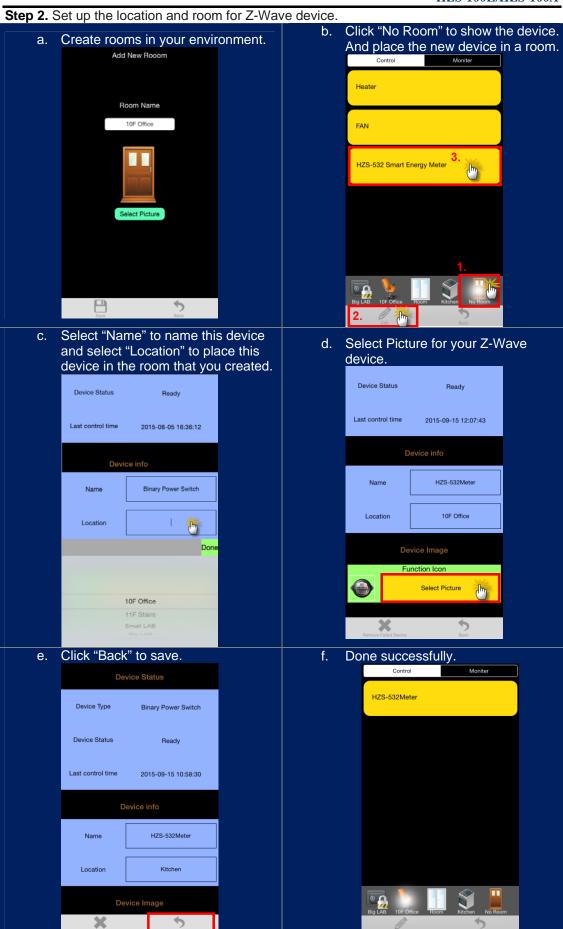


Please refer to the following steps to install **Cloud Home** app and add Z-Wave device via smart phone.

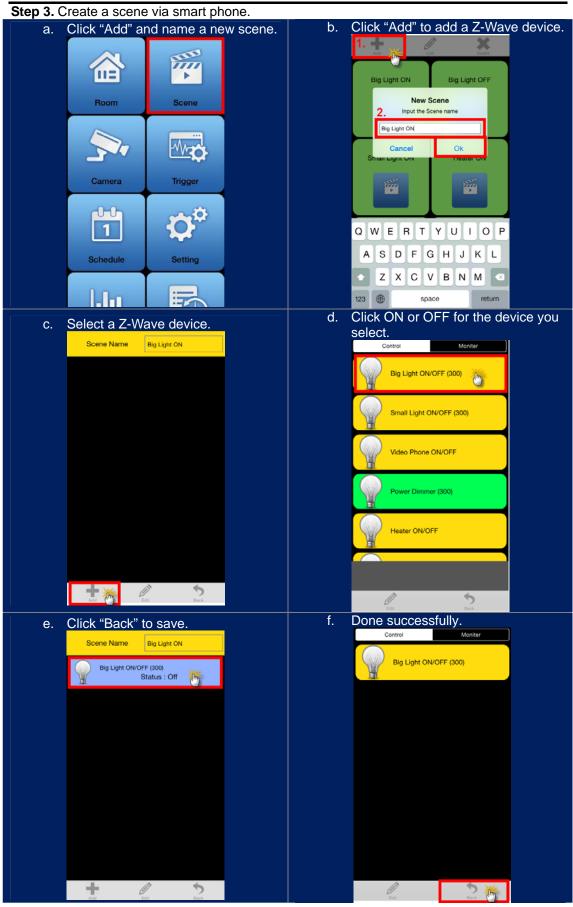


















3.3 Configuring Z-Wave via HTS-1000P

Step 1. Fill out the IP of control gateway to connect with gateway.

	Configuration				•	
Click the "Gateway" button.	Gateway	Control Panel	Intercom	Z-Wave devices	Scene	Upgrading
	Janitor	IP Cameras	Triggers	Activate Code	Location Setting	
Click the magnifying glass to search the IP of gateway.	System set	ttings	Gateway IP Gateway Po Account Password Cancel			*
Control pad found an IP of gateway. Click the IP to join.	System set		9	Address		



Z-Wave Wall-mount PIR Mostion Sensor HZS-100E/HZS-100A

	System settings				۹
		Gateway IP Address	192.168.1.163	Q	
		Gateway Port	5000		
The default gateway port		Account	admin		
is 5000, and user name and password are both admin.			admin		
		Cancel	Ye		



	Configuration	٠
Click the "Z-Wave devices" button to add Z-Wave devices to gateway.	Gateway Control Intercom Z-Wave devices Scene Up	grading
	Janitor IP Cameras Triggers Activate Location Setting	
	HTS-1000P English	\$
	Device Configuration	
Click the "Include New	Include New Device Cancel Operatio	n
Device" button to add Z-Wave device.		



Z-Wave Wall-mount PIR Mostion Sensor HZS-100E/HZS-100A

	НТS-1000Р			۰
	Device Configuration		English	
When you see the message "Waiting for	Cancel	Exclude Device	Cancel Operation	
user action", you can press the match button on Z-Wave devices.	Add	evice: Waiting for a user ad	tion	
Use a paper clip or pin to press the program button on the back of the sensor for 1 time to connect.				
	Device Configuration		English	
If a device is added successfully, it will show the message: Command has completed successfully in device	Include New Device	Exclude Device	Cancel Operation	
No. XX.	Add Device: Command	d has completed successful	lly in device No.53.	



Z-Wave	Wall-mount PIR Mostion Sensor
	HZS-100E/HZS-100A

			1120 1002/1120	
	Device Configuration		English	()
Click the "Exclude Device" button to exclude Z-Wave device.	Include New Device	Exclude Device	Cancel Operation	
	●нтѕ-1000Р Device Configuration		English	()
When you see the message "Waiting for user action", you can press the match button on Z-Wave devices to exclude device.	Include New Device	Cancel	Cancel Operation	

Step 3. After including Z-Wave devices in gateway, you can create different scenes with this function. You can set scenes to control your devices in **Scene** mode.

	Configurat	ion				•
	Gateway	Control Panel	Intercom	Z-Wave devices	Scene	Upgrading
Click the "Scene" button.	Janitor	IP Cameras	Triggers	Activate Code	Location Setting	



	HTS-1000Р			۹	
			Eng	lish 📕	
	Scene Confi				
	Scene	Create Scene			
	All Scenes 10F Heater ON	Scene Nar	me: 10F FAN ON		
Click "Create Scene" and	10F Heater OFF		_		
name the new scene.	10F FAN OFF		A	dd	
	10F LCD ON				
	10F LCD OFF				
	<u>Create Scene</u>				
	HTS-1000P			•	
	Coone Conf		Er	nglish	
	Scene Confi				
	Scene	10F FAN ON		×	
	All Scenes 10F Heater ON	Scene Name: 10F FAN ON	<u>í</u>		
Select one device to add	10F Heater OFF	Controlled Devices:	Select one device to	add 🙀 🕂 🕂	
to the device list.	10F LCD ON	No device in the scene			
	10F LCD OFF				
	10F ECD OFF				
	Create Scene				
	MTS-1000P	Select one device to add		()	
	Scene Config	Construction of the second			
		Smoke (sample)-Mode			
	Scene All Scenes	10F Door 4-in-1-Mode			
	10F Heater ON	Fan -Switch			
Select one device.	10F Heater OFF	Green PIR-Mode			
	10F LCD ON	Red PIR-Mode			
	10F LCD OFF	4-in-1.6-Mode			
	10F FAN ON	HZS-200 Ceiling-mount Smoke Detector			
	Create Scene	HZS-200 Ceiling-mount Smoke Detector	-Mode		
		Heater-Switch			
	НТS-1000Р			4	,
				English	
	Scene Conf	iguration			
	Scene	10F FAN ON		×	
	All Scenes	Scene Name: 10F FAN ON	Ø		
Click the "Plus" button to	10F Heater ON				
add device.	10F Heater OFF	Controlled Devices: No device in the scene	FAN-Switch	+	
	10F LCD ON				
	10F LCD OFF				
	10F FAN ON				
	Create Scene				

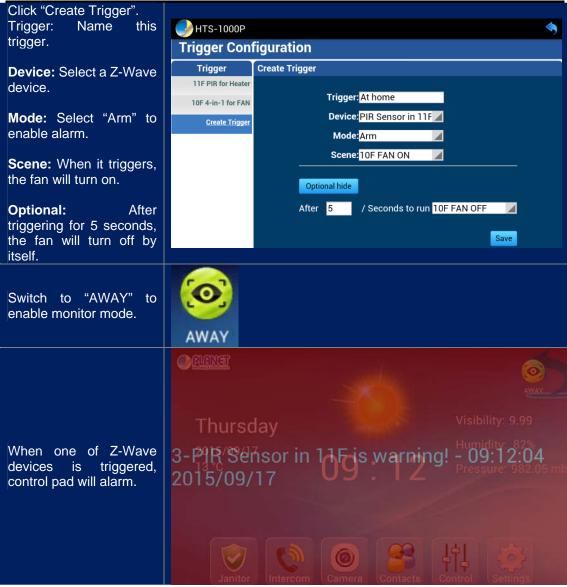


		HTS-1000P				٠
					English	
		Scene Confi	guration			
		Scene	10F FAN ON			×
		All Scenes	Scene Name: 10F FAN ON	<i>i</i> n		
Select the status	of	10F Heater ON				
device (ON or OFF).		10F Heater OFF	Controlled Devices:	Select one device	to add 📕	+
		10F LCD ON	FAN-Switch 🗙			
		10F LCD OFF	II On			
		10F FAN ON	Off			
		Create Scene				
		HTS-1000P				۰
		Scene Confi	guration			
		Scene	Click buttons to run the	scene:		
		All Scenes				
		10F Heater ON	10F Heater ON	10F FAN ON	10F Heater OFF	
Click "All Scenes"	to	10F Heater OFF	Run	Errey Run	Errer Run	
check the scene.		10F LCD ON				•
		10F LCD OFF				
		10F FAN ON	10F FAN OFF	10F LCD ON	10F LCD OFF	
		10F FAN OFF	Bun Run	Errer Run	Erect Run	
		Create Scene			Kun	

Step 4. In Trigger mode, the trigger time is set. An alarm notification is sent via sensor. If a sensor is not installed, this step can be skipped.

	Configuration Scene Upgrading
Click the "Trigger" button.	Janitor IP Cameras Triggers Activate Code Setting

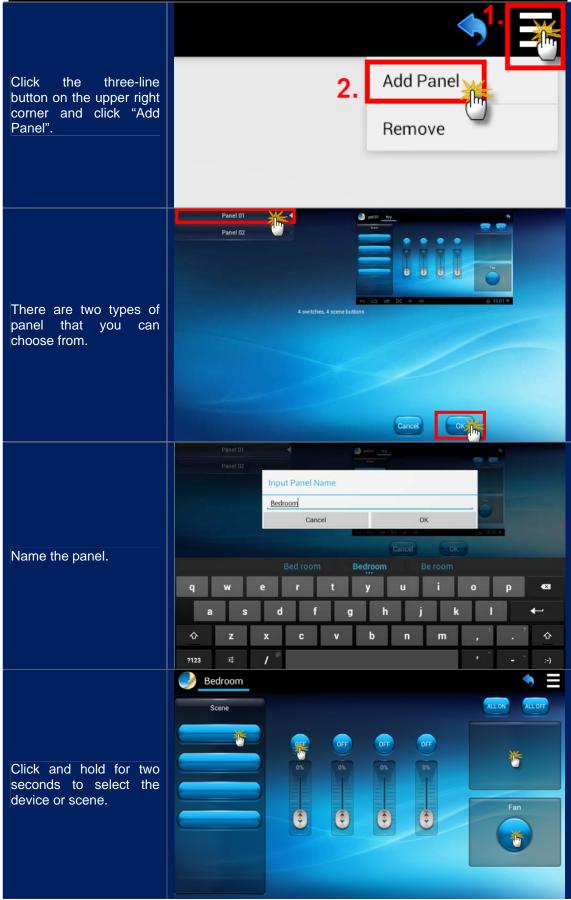




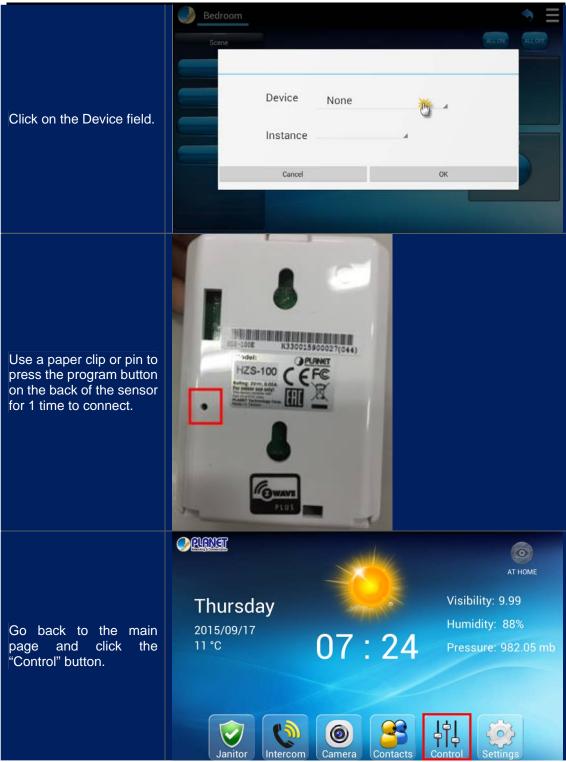
Step 5. After configuring this part, you can control Z-Wave devices and scenes via control pad.













Z-Wave Wall-mount PIR Mostion Sensor HZS-100E/HZS-100A





Appendix A: Troubleshooting & Frequently Asked Questions

	Features
This difference between Z-Wave and ZigBee	 The frequency is different between Z-Wave and ZigBee. ZigBee is 2.4GHz and Z-Wave is about 900MHz. The outdoor distance is different. ZigBee is 10~75 meters and Z-Wave is about 30 meters.
	Z-Wave Device Installation
How to reset the HZS-100 Series	Use a paper clip or pin to press the program button for 10 times within 10 seconds. Only use this procedure when the primary controller is lost or inoperable.
Repeater Function	Only HZS-530 Series can extend the frequency range of Z-Wave. HZS-530 Series can act as a signal repeater to enhance the Z-Wave wireless communication range. For example, the HAC-1000 (Control gateway) is installed on the second floor to control over the HZS-300 (4-in-1 Sensor) on the first floor, but the Z-Wave frequency is weak. Thus, HZS-530 Series can be installed in between the second floor and the first floor to solve the problem.