

netvox Z806 Wireless Switch Control Unit 2 Output



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netvox™

netvox Z806 Wireless Switch Control Unit 2 Output



Specifications

- **Model:** Z806
- **Firmware:** V5.2 Hardware: V7.1
- **Device type:** On/Off Output (HA Profile) / Load Control Device (SE Profile)
- ZigBee high power output switch
- Protocol based on ZigBee
- Equipped with router device
- Two dry-contact output relay controlling individual devices
- **Input power range:** AC 100V-240V 50/60HZ

Product Usage Instructions

Joining into ZigBee network

1. Power on Z806, it will search the network automatically.
2. If a coordinator or router are sharing the same channel in the network and allowing other devices to join, Z806 will join the network automatically.
3. After successfully joining the ZigBee network, the network indicator will stay on. Otherwise, it will remain off.

Permit Join

Z806 acts as a router and allows other devices to join the network:

1. Turn on permit join function by pressing the binding key shortly; the status indicator will flash to show permitting join.
2. Other devices can join the network through Z806 during the permitting interval of 60 seconds; the network indicator will flash 60 times.
3. Z806 will stop permitting function after 60 seconds, and the status indicator will stop flashing.

Binding

Z806 can bind with devices of the client side carrying On/Off (0x0006) Cluster ID. Follow these steps for binding:

- Objects that can be bound: switching devices such as Z501, Z503, ZB02C, etc.

Control

Devices bound with Z806 can send on/off commands to Z06:

- When Z806 receives the ON command, the relay magnet of the corresponding channel will connect, turning on the external circuit.
- When Z806 receives the OFF command, the relay magnet will disconnect, cutting off the external circuit.

Restoring to Factory Setting

Z806 can be restored to factory settings:

1. To restore to factory settings, press and hold the binding key for 15 seconds until the status indicator flashes three times individually at the 3rd, 10th, and 15th second. Then press shortly within 2 seconds; the status indicator will keep flashing to show that restoring is completed.
2. Two indicators will then shut off; the status indicator will start searching for the network, and Z806 will re-join the network.

FAQ

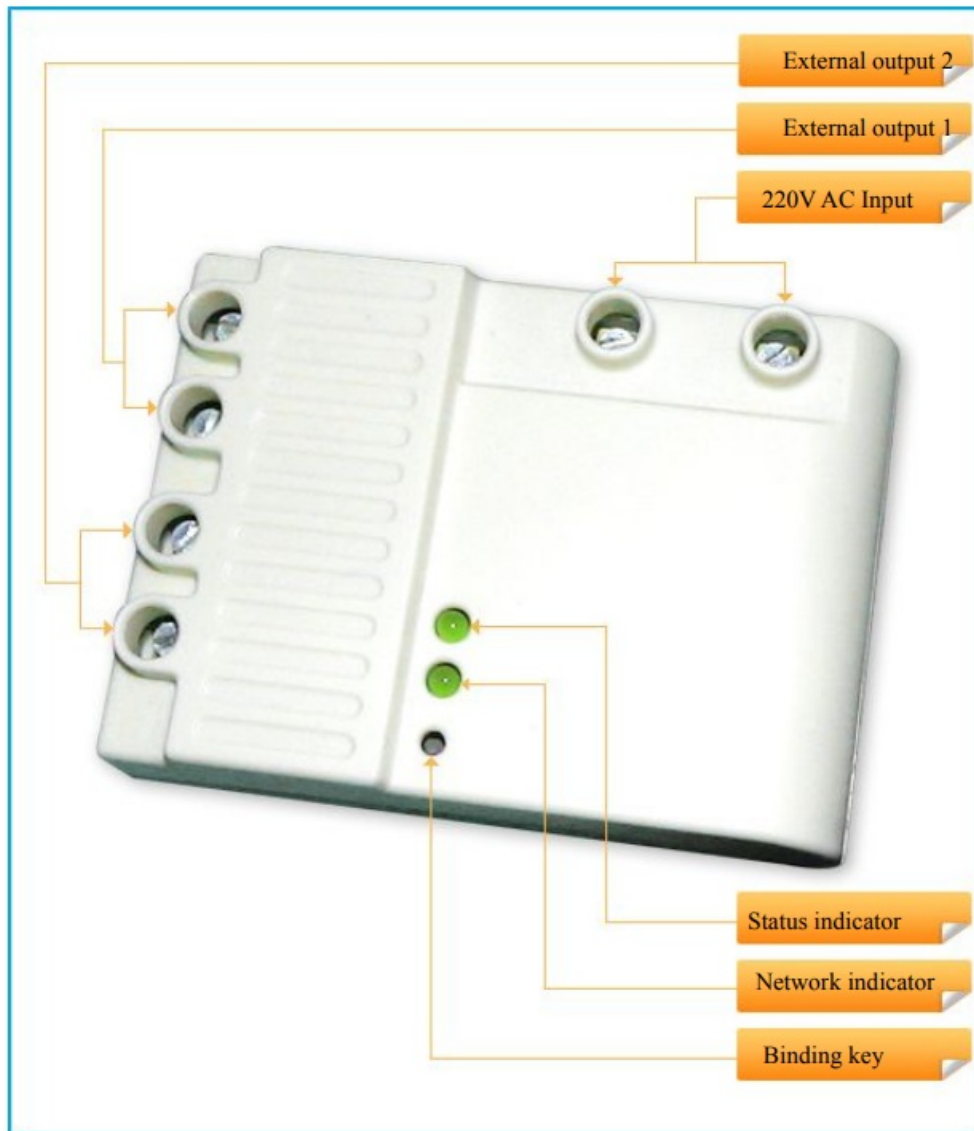
- **Q: How do I know if Z806 has successfully joined the ZigBee network?**
 - **A:** The network indicator will stay on when Z806 has successfully joined the ZigBee network.
- **Q: Can Z806 allow other devices to join the network?**
 - **A:** Yes, Z806 acts as a router and allows other devices to join the network through its permit join function.
- **Q: What happens when Z806 is restored to factory settings?**
 - **A:** When restored to factory settings, Z806 clears saved data like network addresses and re-joins a new network.

Introduction

Z806 is defined as a wireless switch device based on ZigBee protocol. It has two circuits to be on or off wirelessly

controlled. It allows user using a ZigBee remote controller to wirelessly switch on or off the load attached to it. Z806 is a router device in the network which permits other devices to join the network. Z806 utilizes 2.4 GHz ISM band for ZigBee HA or SE profile and communicates with routers, coordinator, and end devices in a network.

Appearance



Main Features

- **Device type:** On/Off Output (HA Profile) / Load Control Device (SE Profile)
- ZigBee high power output switch
- Protocol based on ZigBee
- Equipped with router device
- Two dry-contact output relay controlling individual device
- Compact size that can be installed in power junction box

Installation

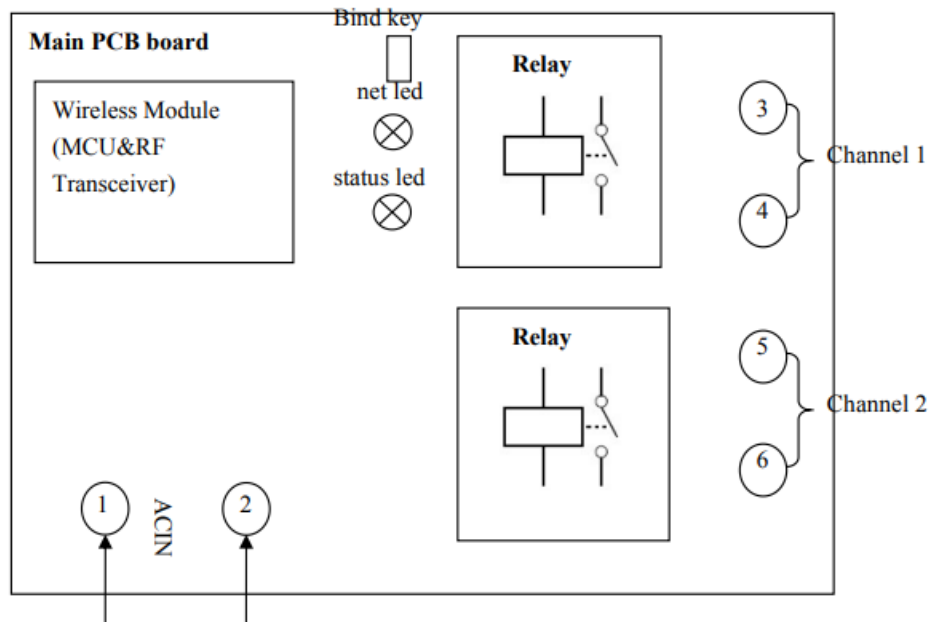


Fig 1. Z806 structure diagram

Z806 Wiring Diagram :

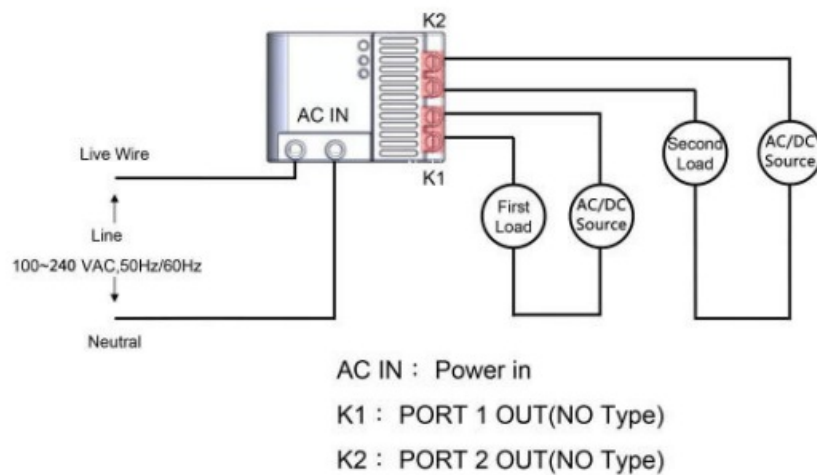


Fig 2. Z806 Wiring Diagram

Input power port:

Refer to Fig. 1, mark 1 and 2 are input power ports which can support input power range from AC

100V-240V
50/60HZ

Output power port:

Main PCB Board carries 2 relays that the control terminal and the controlled terminal is electrically isolated. Reference numeral 3,4,5,6 four terminals are output port interfaces of relays. Numeral 3,4 port to connect one relay output switches at both ends. Two terminals are turned on and off by controlling the relay inside the machine. And they are galvanically isolated from other parts of the lines on the board (ie, here are dry contact outputs).

Numerical 5,6 port interfaces to connect one relay output switch at both ends. Two terminals are turned on and off by controlling the relay inside the machine. And they are galvanically isolated from other parts of the lines on the board (ie, here are dry contact outputs).

Join into ZigBee network

In order to communicate in the ZigBee network, join Z806 into the network as below steps:

1. Power on Z806, it will search the network automatically.
2. If coordinators or routers are sharing same channel in the network and allowing other devices to join. Z806 will join the network automatically.
3. After joining into ZigBee network successfully, the network indicator will stay on. Otherwise, the network will stay off.

Permit join

Z806 acts as a router and allows other devices to join the network. Turn on the permit join function: press the shortly binding key, status indicator flashes to show permitting join. Other devices are allowed to join the network through Z806, permitting an interval 60 seconds; the network indicator will flash 60 times. Z806 will shut down the permitting function after 60 seconds and the status indicator stops flashing.

Binding

Z806 can bind with devices of the client side carrying On/Off (0x0006) Cluster ID. Z806 can receive on/off commands and perform the corresponding on/off switching Binding operations are as below:

Objects can be bound: switching devices as Z501, Z503, ZB02C, etc.

Binding operations: press and hold the binding key for 3 seconds, after the status indicator flashes once, release the key bindings, within 5 seconds press the binding key N times to choose Nth channel to be bound. Each time you press the key; the status light flashes once to show prompted key is valid. For example, for channel 2 to bind with other devices, press and hold the binding key for 3 seconds, then the status indicator blinks once, and release the binding key. Within 5 seconds continuously press the binding key 2 times, the status light flashes twice individually to show each prompted key is valid. 5seconds later, Z806 will send a binding request. Operate devices to be bound to also send a binding request. After binding is successful, the Z806 status indicator blinks 5 times. Status indicator will flash 10 times to show that binding is not successful.

NOTE: The device supports 32 groups, 32 scenes.

Control

Devices which are bound with Z806 can send on/off commands to Z06. When Z806 receives the ON command, relay magnet of the corresponding channel will connect; thereby the external circuit of that channel is turned on. When Z806 receives OFF command, relay magnet will disconnect, so the external circuit cut off.

Restore to factory setting

Z806 carries functions of saving data such as saving the distributed network addresses. If users would like Z802 to join a new network, Z802 has to be restored to the factory setting first.

To restore to factory setting, press and hold the binding key for 15 seconds till the status indicator flashes three times individually at 3*, “, 10*, 15” seconds, and then press shortly within 2 seconds; the status indicator will keep flash to that show restoring is completed. Two indicator will then shut off; status indicator will start to search the network and Z806 will re-join the network.

ZigBee description

1. **End Points**): 0x01. 0x02
2. **Device ID**: On/Off Output (0002)
3. Cluster-ID which EndPoint supports

Cluster ID for Z806	
Server side	Client side
EP 0X01、 0x02(Device ID: On/Off Output (0002))	
Basic(0x0000)	<i>None</i>
Identify(0x0003)	
Group(0x0004)	
Scene(0x0005)	
On/Off(0x0006)	
Commissiong (0x0015)	
Diagnostics(0x0B05)	

Identifier	Name	Type	Range	Access	Default	Mandatory / Optional
0x0000	<i>ZCLVersion</i>	Unsigned 8-bit integer	0x00 – 0xff	Read only	0X03	M
0x0001	<i>ApplicationVersion</i>	Unsigned 8-bit integer	0x00 – 0xff	Read only	0X34	O
0x0002	<i>StackVersion</i>	Unsigned 8-bit integer	0x00 – 0xff	Read only	0X35	O
0x0003	<i>HWVersion</i>	Unsigned	0x00 –	Read only	0X47	O

		8-bit integer	0xff			
0x0004	<i>ManufacturerName</i>	Character string	0 – 32 bytes	Read only	netvox	O
0x0005	<i>ModelIdentifier</i>	Character string	0 – 32 bytes	Read only	Z806E3R	O
0x0006	<i>DateCode</i>	Character string	0 – 16 bytes	Read only	20150508	O
0x0007	<i>PowerSource</i>	8-bit Enumeration	0x00 – 0xff	Read only	0X01	M
0x0010	<i>LocationDescription</i>	Character string	0 – 16 bytes	Read/write	-	O
0x0011	<i>PhysicalEnvironment</i>	8-bit Enumeration	0x00 – 0xff	Read/write	0x00	O
0x0012	<i>DeviceEnabled</i>	Boolean	0x00 – 0x01	Read/write	0x01	M

Related products

Switch (model: ZB02A/B/C)



Remotes (model: Z503/Z501B)



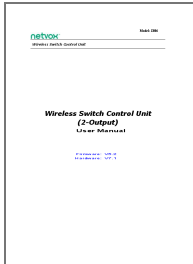
Motion Detector (model: ZB01B)



Important Maintenance Instructions

- Please keep the device in a dry place. Precipitation, humidity, and all types of liquids or moisture can contain minerals that corrode electronic circuits. In cases of accidental liquid spills to a device, please leave the device dry properly before storing or using.
- Do not use or store the device in dusty or dirty areas.
- Do not use or store the device in extremely hot temperatures. High temperatures may damage the device or battery.
- Do not use or store the device in extremely cold temperatures. When the device warms to its normal temperature, moisture can form inside the device and damage the device or battery.
- Do not drop, knock, or shake the device. Rough handling would break it.
- Do not use strong chemicals or washing to clean the device.
- Do not paint the device. Paint would cause improper operation.
- Handle your device, battery, and accessories with care. The suggestions above help you keep your device operational. For damaged devices, please contact the authorized service center in your area.

Documents / Resources

	netvox Z806 Wireless Switch Control Unit 2 Output [pdf] User Manual Z806 Wireless Switch Control Unit 2 Output, Z806, Wireless Switch Control Unit 2 Output, Switch Control Unit 2 Output, Control Unit 2 Output, Unit 2 Output
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References

- [User Manual](#)

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