

# GIS-C-2411 serial Switch Preliminary User Manual

**Warning:** Only install/repair/replace the switch at **Power off** status to avoid Warning electric shock

## Product Introduction

GIS-C-2411 serial switch is a smart wireless power switch, it's can works alone as well as working together with Power controller, which can make a switch network , allow multi control and smart control.

## Function Description

- ① Touch Button 1,2,3 (button number depending on version)
- ② Live Input Wire, Black color, connect to the live line as input
- ③ Neutral Wire: White color, connect to the neutral line as input
- ④ Earth Wire: Green color, connect to the earth as protection.
- ⑤ Live Output Wire1: Blue color, connect to the loads as live phase output.
- ⑥ Live Output Wire2: Blue color, connect to the loads as live phase output.

Notice: The number of touch buttons is depending on the variant, as table1:

Variant	Touch Button Number(Name)	Touch button and Output relationship
GIS-C-2411-1	1 (TP2)	TP2 control Live Output Wire1
GIS-C-2411-2	2(TP1 and TP3)	TP1 control Live Output Wire1 TP2 control Live Output Wire2
GIS-C-2411-3	3(TP1,TP2 and TP3)	TP1 control Live Output Wire1 TP2 only used for multi-control TP3 control Live Output Wire2

Table1: Touch button and output line relationship

## Application Guide

The GIS-C-2411 serial switch is used to control the live line of the load, it can connect to variant loads within its capacity, including inductive loads.

When the first time power on the switch, it will do touch-panel calibration, so this means you must close the glass cover before you turn on the main power supply of this switch. If you want to do re-calibration, just turn off the power supply of the switch, waiting at least 30 seconds, then turn on the main power. The calibration takes 10 seconds, so during this period, please don't touch any button or put anything else on the glass touch panel.

Each button has its back light, white means off and blue means on.

## Standalone control Guide

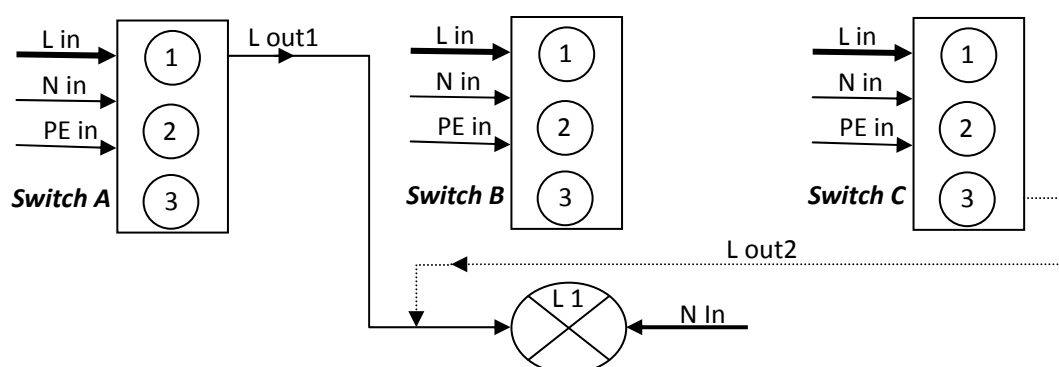
You can use the switch as a standalone switch, just connect all the input/output wires, then you can use it as the traditional touch switch, but please notice, there are only two live output lines, so this means you can only use the touch button1 and touch button3, touch button2 has no output though it's backlight can be changed when you touch it.

## Multi control mode1 Guide

The GIS-C-2411 serial Switches allow you realize multi control function without additional hardware cable routing as traditional mechanical switch, when you touch one button the switch will transmit the touch information to its paired node, then you can use it as multi control. One button can have maximum 3 paired mates, that means you can use maximum 4 buttons in different switches to control one output (as light, fan and so on).

If you want to use this function, just connect the switches input line as standalone switch (with main power supply is **OFF**), and then select at least one of the groups outputs connect to the load, here is an example:

Using 3 buttons to control one light L1 (Switch A's button1 /Switch B's button2/ Switch C's button3)



In this example, you can use either Switch A's L out1 or Switch C's L out2 to control light L1's live input. For heavy load, it's recommended to use both outputs.

When the hardware connection is ready, you need to do the pair configurations as below:

- Power on the main power supply, and wait at least 15 second for the switch initialization.
- Touch the button that you want to use for at least 6 seconds until the back light start blink (white color). Here is button1 of switch A. now this node button 1 is in pair mode.
- Do the same for the other switches, in this example is switch B's button2 and switch C's button3. Now the switch A's button1, switch B's button2 and switch C's button3 should be in white blink status.
- Touch any button of this group (Here is A1 or B2 or C3). The button will turn blue and blink 3 times then turn white. At this time the pairs is ready. You can control the load with any of these buttons
- If you want to ungroup, touch any the button that you want to ungroup for at least 6 seconds until the back light start blink (blue color) (Here is A1 or B2 or C3), then touch it again for 1second, it will delete all the paired information of this group. Then you can pair it again if you want.

## Multi control mode2 Guide

This mode is a center control mode, you need another center controller, and then you can realize different control mode, for example one key control all node on/off, config the time out and so on. The entire configurations are done on the center controller. The details please refer the center controller's user manual.

In order to avoid the conflict between multi control mode1 and mode2, when the multi control mode2 is used it can't used as multi control mode1 anymore, please take care of this.

## Technical Parameters

Input voltage	90~ 240VAC/50-60Hz
Maximum Control Current	8A for 1 channel 14A for one switch(2 channels)
Operation temperature	0°C to 75°C
Operation humidity	0 to 80% RH
Storage temperature	-20°C to 85°C
RF frequency	2410MHz to 2470MHz, step 1MHz, fixed at installation phase
Modulation Type	GFSK

## FCC Statement

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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment 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.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.