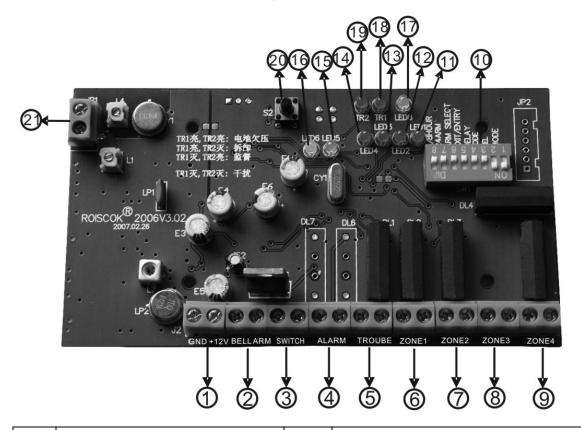# RP208EW4 4-Zone Wireless Receiver Instruction

The Four-Zone Wireless Receiver can be fully integrated with the GUARD8 Security System to allow for the use of wireless PIR sensors and magnetic door contacts, but is so versatile that it can be incorporated in most existing alarm installations.

It is fully programmable allowing for time supervision monitoring. The transmitters have low power consumption as well as tamper monitoring function. It clearly indicates when there is an interferance signal and supports all RK series wireless detectors/transmitters.

It has circulating code, and each zone can be connected to up to 8 wireless detectors/transmitters.

RP208EW4 4-zone Wireless Receiver is easy to install.

1	12VDC Power	11	Zone-1 Indicating Light
2	Set Aside	12	Zone-2 Indicating Light
3	Remote Armed	13	Zone-3 Indicating Light
4	Set Aside	14	Zone-4 Indicating Light
5	Trouble Output	15	Receive Data Indicating Light
6	Zone 1 Connector	16	Interfered
7	Zone 2 Connector	17	Setting Indicating Light
8	Zone 3 Connector	18	Trouble Indicating Light(1)
9	Zone 4 Connector	19	Trouble Indicating Light(2)
10	Dial Switch	20	Touch Switch
		21	Antenna Connector

Main Features:
- RP208EW4 can receive and handle 32 long distance wireless signal at most, including PIR Detectors and Smoke Detectors, Magnetic Contacts, Wireless Panic Button and Remote Controller etc.
- 4-wire zone alarm output
- Record pre-programmable recognized location of each emitter when installing
- Alarm output is suitable for any panel

Preparation Work before Install
- RP208EW4 can be installed together with control panel or on other suitable place
- Receiver should be installed in the center when there is more than one emitter.
- Receiver should be far away from metal and other wireless frequencies, such as TV-set, computer etc
- Connect the antenna onto the left JPI port
- All the DIP switched should be off

RK208EW4 Function Switch
- All the outputs are, NC dry outputs
- **JPI:** Use for antenna connection
- **SW1-SW8:** Use for programming and testing options
- **S2:** Use for changing zones when setting location

Setting Location Code into RK208EW4 for Detector or Emitter
- Make sure all DIP switches are off,
- Make No.2 of SW1 switch is on, then entering register status, LED 8 is on
- When registering, LED1-LED4 will be all on, one of them will be blinking. The blinking one indicates the current zone, and you can register in this zone now.
- Press S2 (press time no more than 3 seconds). Then the blinking LED can be switched in order from 1 to 4, then back to 1, then enters the corresponding zone, and the rest 3 LED are still on.
- Make the ready detector/emitter to send signal to RP208EW4. Then LED5 will be on, and three of the zone indicating lights will be off. If the registered zone LED is still blinking, which means the detector/emitter has been registered successful in this zone.
- When finished registering, make S1 and S2 are on, then back to the normal working status

For example: You are going to register a detector in zone-1 of RP208EW4. Operate as follows:
1. Make all the DIP switches are off
2. Turn on power
3. 5 seconds later, make the No.2 switch of SW1 on. Then LED1 will be blinking, and LED2 LED3 and LED4 are all on, now zone-1 is in registering status. Or you can make the LED1 blinking by pressing S2. Remember the press time is less than 3 seconds.
4. Make the detector sending signal to RP208EW4. Then LED5 is on, LED1 is blinking, and LED2, LED3 and LED4 are all off, which means the detector has been registered in this zone successfully
5. Make S1 is on, and back to normal working status

Explanation:
1. In registering status, if there is received valid information from unregistered detector/ emitter, then register in this zone. Each zone can connect 8 detectors or emitters at most
2. Only one LED is blinking, the other LED are off, means registered successfully. If not, means failed to register
3. If the detector/emitter has been registered, it cannot be registered again, and LED8 is blinking.
4. If the zone has registered 8 emitters, no more can be registered
5. If LED5 is on, RP208EW4 has received the signal from detector/emitter
6. If LED5 is on, and zone indicating light is on, means there are 8 detectors/ emitters in this zone, no more can be registered
7. If the zone has 8 registered emitters already, no more can be registered, then change another zone to register

Sending and Receiving Test
Select an installation position first, then do sending and receiving test, display as:
● Make 1 and 2 of SW1 are on, and RP208EW4 will enter normal working status
● LED1, LED2, LED3 and LED4 represent Zone-1, Zone-2, Zone-3 and Zone-4 respectively. When detector/emitter was triggered, the corresponding LED will be on
● LED5 is on, means there is signal coming in
● If the received signal is from unsuccessful registered detectors/emitters, then only LED5 is on, other zone indicating light won't be on
Attention: No matter if the detector/emitter has been registered or not, LED5 will be on in a short time as soon as got the valid information. This can be used for testing the sending performance of detectors/emitters, and the receiving performance of RP208EW4

Delete Registration
Attention: all the deleting work should be taken in registration status
● When zone indicating light is blinking, if you want to delete the current registered information, please hold down S2 for 5 minutes, then you can delete successfully. The other zones can be operated in the same way.
● If you want to delete the detectors in all zones in one time, power off RP208WE4 first, then hold down S2 and power again. Now all the information of the registered detector/emitter can be deleted
● When delete successful, remember to make RP208EW4 back to normal working status

Connection Specification
● +12V: power anode
● GND: power negode
● COM: common earth
● ARM: input arm
● ZONE1/ZONE2/ZONE3/ZONE4: corresponding zone of connecting control panel
● TROUBLE: output interference signal

Trouble Reminder
● The battery power is weak: TR1 is on, TR2 is on
● Detector/emitter is tempered or has not contacted RP208EW4 in the schedule time: TR1 is on, TR2 is off
● Detector/emitter in monitoring status: has not received information from emitter in 3 or 8 hours. TR1 is off, TR2 is on
● The system has been interfered: if the signal path has been interfered, or the interference lasts more than 30 seconds. LED 6 will turn on.