SA204 Transmitter

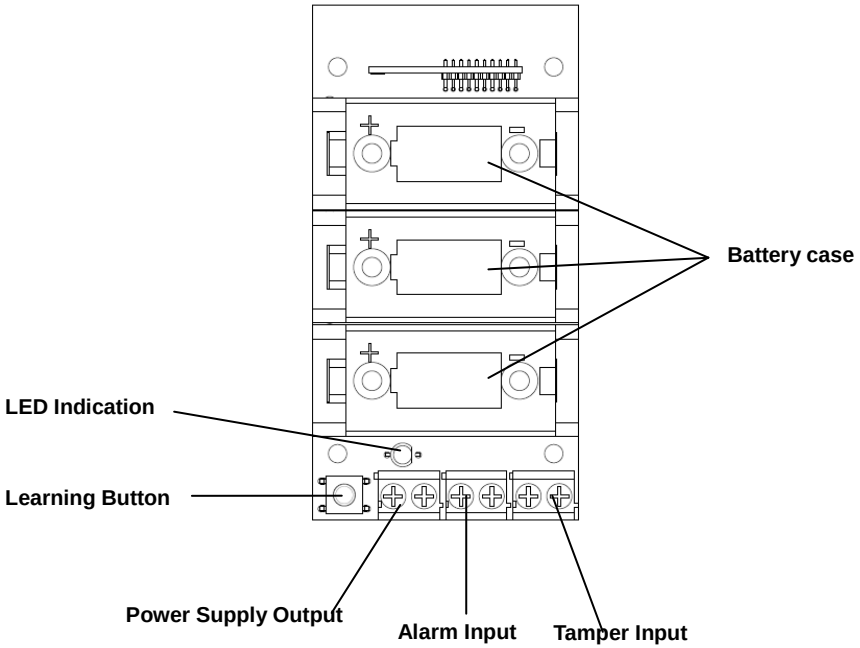
General Introduction

The SA204 Transmitter is used for integrating the third party detectors into VIAS system and has full control with VIAS APP. It can supply power to the third party detector and notifies when alarm or tamper trigger of the third party detectors to the controller. The SA204 can detect device removal by its own accelerometer.

Main features:

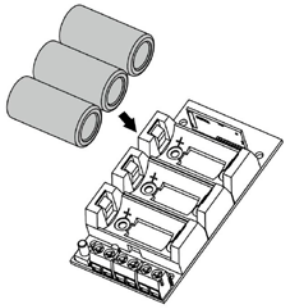
- 3.3V power output to supply power to the third party detectors;
- With one tamper input and one alarm input
- Detection of device removal by accelerometer
- LED display to indicate tamper, alarm and accelerometer trigger
- Low battery indication

Product Layout



Pairing to Controller

1. Insert 3pcs of CR123A battery as shown below.



2. Locate the learning button. Do not activate pairing on the controller yet.
3. Log into the VIAS account from the APP, and enter the gateway to system main control page.
4. Go to VIAS system set up> add device on function list, choose SA204 in pairing on the controller.
5. Please follow and complete the instruction on the APP to binding with central gateway.
6. Press and hold the learning button for more than 3 seconds until the LED flashes moderately in Green then release the button.
7. The LED should stop blinking indicating the pairing process is complete.

CAUTION
1. Install the transmitter according to the instructions in this manual. The transmitter should be installed inside the detector enclosure or in a sealed box.
If the transmitter cannot be installed inside the detector body, use an external radio-transparent body.
2. Do not install the transmitter in a metal body.
3. Do not install the transmitter under temperature and humidity conditions that exceed the permissible limits for the device.
4. Do not connect a third party power supply unit to the power terminals. This may damage the device.
5. Suggest wearing gloves to protect against static electricity when install the transmitter.

APP Configuration Setting

Go to device list, press and hold SA204 icons for 2secs can get into sensor information page, press settings on the top right to get into the following selections.

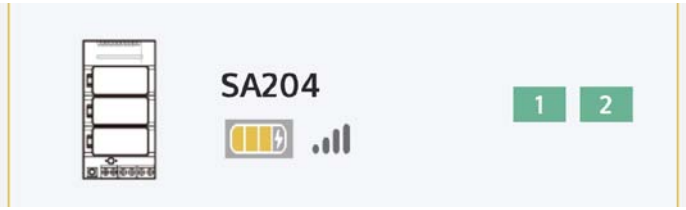
For the wiring of detector on the transmitter, please follow the instruction of third-party detector manual to make right wired connection.

1	Detector Power Supply	-Disable(Default) -Enable
2	Detector Type	-Pulse(Default) -Bistable
3	Alarm Signal Type	-Normally Close(Default) -Normally Open
4	Tamper Signal Type	-Normally Close(Default) -Normally Open
5	Alert if moved	-Disable(Default) -Enable

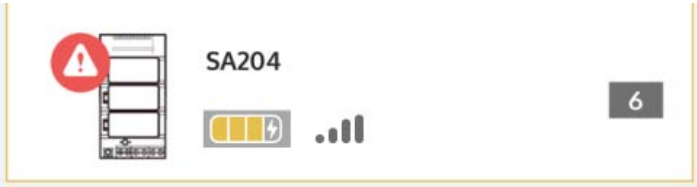
Operation

The transmitter can be installed inside the third party detector, Connect transmitter to the detector through the power supply output and alarm, tamper input. When triggering of alarm or tamper, the transmitter will emit signal to the controller and send notification to the users. The transmitter can set the device zone type and behaviors in connection to Alarm Monitoring Center. It can also been classified by rooms or assigned to monitor in different areas.
The settings are located in sensor information page. Press and hold the device icons for 2 secs on device list can enter for the options of settings.

After SA204 is successfully pairing on the panel, the device led goes off and it will display on the device list of VIAS APP where you can see the device and signal levels of it.
If you have assigned it in the partitions, it will also display the number of partitions it belongs. The unassigned device will indicate “P” that means it’s not belong to any partition.



If the third-party detector is triggered, the alert icon will be show as below and the triggered of zone will report in notification. The device led will flash 2 times in Red when the event has been triggered.



When third-party detector is triggered tamper alert, it is shown as “T” on the icon and the device led flashes 2 times in Red when triggered.
When SA204 is moved, the accelerometer detects it’s movement and shown as below to generate an hammer icon the row of indication beside the battery and signal levels the device led flashes 2 times in Red when triggered. Please check the setting of alert if moved is enabled for this feature.



Maintenance

Low Battery: When the battery becomes low. The detector will report back to the controller and LED will flash 15 times to indicate low battery condition to the user.

It can be temporarily disabled on sensor information page for maintenance. In the meantime, the event triggered or status of device will be ignored.

Software reporting commands

Power on report	When battery is inserted, it will report power on command to the controller after one minute.
Auto report	When battery is inserted, it will report to controller after 2 minutes. It will report the condition every hour.

Trouble Shooting

Symptoms	Possible Cause	Recommendation
Device does not work	No batteries attached or no power.	Check if batteries are attached or replace with new ones.
	Break down	Send it for repair.
Cannot carry out binding or out of control	Binding with controller did not complete successfully.	Bind again using manual binding
	Disturbed by other radio waves	Please operate later

Reset to factory default

To reset SA204 back to factory default state:
1. Press and hold the Learning button for 3 seconds until the LED flashes moderately then release the button.
2. Within 30 seconds, press and hold the Learning button again, this time for more than 6 seconds then release the button.
3. Re-insert the batteries, if the LED blinks slowly for 30 seconds this implies the device is reset back to factory mode.

Specifications

Operating temperature range	-20°C ~ 50°C
Operating humidity	85% RH
Battery type	3V CR123A*3
Battery life	Up to 5 years
RF Frequency	868MHz(EU), 923MHz(US)
RF range	>1km (Open space)

*****Specifications are subject to change without notice.

WARNING:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal free of charge.

CAUTION:

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

Federal Communication Commission Interference Statement

FCC warning:
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

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

Industry Canada statement:

This device complies with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RF radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body."

Ce matériel est conforme aux limites d'exposition aux rayonnements rf de ic énoncés dans un autre environnement.
Ce matériel doit être installé et exploité à une distance minimale de 20 cm entre le radiateur et votre corps.

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