

PlatinumX Operating Manual

Gen2

Caravan / Camper



website

rvsecure.com.au

contact

sales@rvsecure.com.au



PlatinumX Gen2



Key	Press	Description
A	Press 1x	System will arm in Normal mode
B	Press 1x	System will arm in Silent mode
C	Press 1x	System will arm in Night mode
D	Press 1x	System will disarm, all lights / sirens off and reset
D	Press 3x within 10 seconds	Enter system Programming mode

Arming the system

When key “A”, “B” or “C” is pressed to turn the alarm on the control system then reads all of the sensors that are in Active mode. If the sensors are OK then the system will arm, there will be a short light flash for 1 second and a short audible beep from the control unit to indicate that the system is armed.

If a sensor is not OK then the system will not arm. A long light flash and long audible beep from the control unit (2 seconds) will indicate the failure to arm.

3x Arming Modes

1. Normal Mode

Pressing “A” arms the system in normal mode. Alarm activation's in this mode will activate the lights and sound the siren depending on the sensor type.

2. Silent Mode

Pressing “B” arms the system in Silent Mode. Any activation in this mode will not sound the siren but will activate the lights depending on the sensor type.

3. Night Mode

Pressing “C” arms the system in Night Mode. When in Night Mode, the PIR and Motion sensing systems are isolated so moving about in your van at night will not set off the alarm. There is effectively a “perimeter” armed with the other sensors active. If the alarm is activated in this mode the flashing lights will be activated but the siren will not. Instead there will be a repeated beeping from the alarm panel that will sound.

Please refer to the sensor type information for a detailed description of the responses in each mode.

Disarming the System

Pressing “D” will disarm the system. If the system has been in alarm then entering programming mode after a disarm will show what sensor caused the alarm.

Key features of Operation when in Alarm

Siren

- When alarm activated the siren will sound for 15 seconds then reset. If activated again, siren will sound for another 15 seconds then reset. There is a maximum of 3x siren activation's then the siren will not resound. When the alarm is disarmed and rearmed the number of activation's will reset again.

Lights

- When alarm activated the system will flash the parking lights repeatedly for 15 minutes or until disarmed. This can be reactivated by additional sensor activation's.

Anti-Tow

- **The Anti-Tow system will only activate on the movement sensor and not any of the other sensors.** When activated (between 1 and 10 seconds after sensing vehicle movement) the brakes will lock for 10 seconds. Each time after this that the movement sensor is activated the brakes will lock for another 10 seconds. This is independent of the siren activation's. Multiple activation's can occur sequentially.

Anti-Hitch

- The Anti-Hitch sensing operates when the system detects an attempt to hitch the vehicle. It reacts in the same way as the Anti-Tow sensing by activating the alarm and brakes.

Note:

1/ After arming the system, the anti tow / anti hitch becomes active after 20 seconds.

2/ The AntiTow / Anti-Hitch systems do not work when the Movement sensor (zone 16) is isolated.

Advanced Brake Tamper System (Pat Pending)

- The alarm system actively monitors the vehicles brake circuit and (if the alarm system is armed) will activate an alarm if the brakes are tampered with and disconnected from the vehicle. The Brake Tamper System will check the brakes on arming, and if it reports an error the alarm will not arm. Should the brakes not be connected on purpose then the zone can be isolated. If using hydraulic brakes it is important that this zone is isolated.

Brake Safety Interlock

- The brake safety interlock is an inbuilt safety feature that protects you from the risk of an accidental brake system activation whilst driving. When the system is armed, it checks for a period of 20 seconds to see if the vehicle is in motion, if it detects motion it will enable the interlock and prevent the brakes from being activated.

Please note: the interlock is dependent on a combination of the sensitivity setting, the the driving conditions at the time, ie speed and terrain.

Anti-Jamming

- The system has active anti-jamming detection and if disarmed will alert the user that a jamming device has been detected. If the system is armed it will automatically alarm on confirmed detection.

Low Battery Voltage Alarm

The alarm system monitors the battery voltage, and if the voltage falls below the alarm level, the alarm system will activate. If the GPS Communications Hub is being used a power alarm signal will also be sent. The voltage for the alarm level can be set by the user between 11.0 and 14.0 volts in the programming memory so it can cater for Lead Acid and Lithium Batteries.

A typical setting would be when there is 30% capacity remaining in the battery. We have included some handy charts at the end, however please consult your specific battery/power system manual to determine the correct setting for you.

The main screen of the alarm in normal operation will display the current voltage as well as the alarm level set (ie Batt: 12.6v / 11.5v).

Emergency (Panic) Switch

The system is equipped with a Panic switch. This operates independently of the system arm/disarm state ie it will work if the system is either armed or disarmed. If armed, the emergency system will override the armed mode and respond. For example, if the system is armed in Silent mode the Emergency system will override the siren cut and respond with lights and siren.

Auxiliary inputs (optional)

The PlatinumX, with the appropriate sender unit (optional) allows for Auxiliary alarm inputs from third party devices. Please see the sensor details for more information.

LED Flasher (optional)

A LED Flasher can be added to the alarm on the flasher port. If installed it will flash every 5 seconds when armed in modes Normal and Silent. It will not flash in Night mode. If the alarm is activated the flasher will flash every half second until system is disarmed to indicate that there has been an alarm. This will continue after the lights have timed out (15 min).

Sensor Battery Replacement

Each sensor has an expected battery lifetime of between 12 and 24 months. When a low battery condition is reached the sensor will flash every 10 seconds indicating that it is time to replace the battery. Please note that high use (ie living in van / constant operation) situations will shorten the life of the battery and will require more frequent changes.

GPS Communications Hub (optional)

The alarm system includes a 6 pin port for the optional RVsecure GPS Hub. This will allow (with a suitable subscription) you to receive alarm signals via SMS, App and email as well as provide full tracking. Please refer to the GPS Hub manual.

Programming the System

Press “D” 3x to enter programming mode. Once in programming mode there are 4 options.

Press “A” Settings

Press “B” + Sensors

Press “C” + Remote

Press “D” to exit programming mode

The screen will display “Main Menu” and then the version number. There are 4 options operated by the 4 remote keys.

A – Settings

Pressing the settings “A” will initially scroll through the zones showing their current status. If there is no sensor on the zone the zone will not show.

Zone

Each zone that is available has three possible settings Active, Isolate and Alert.

-Active means the system is reading the sensor and will respond to the external conditions for this sensor generating an alarm condition.

-Isolate means that the sensor activation will not trigger an action.

-Alert enables the sensor to generate a warning (short siren pip, light flash, 2 seconds) without an alarm condition.

Zones 1-13 are programmable wireless sensors, zones 14 to 17 are fixed. All zones can be isolated if required.

Zone 14 – Low Battery

Zone 15 – Brake Tamper - If using hydraulic brakes this zone must be isolated

Zone 16 – Motion

Zone 17 - Anti Jamming

Motion Sensitivity

The motion sensitivity has 5 settings, 1 (low) to 5 (high) and is set at 3 by default. There are many factors that can effect the required sensitivity. Whilst every vehicle is different, the following is a guide on the starting point for the sensitivity settings.

<u>Sensitivity</u>	<u>Tandem Axle</u>	<u>Single Axle</u>	<u>Camper</u>
5 High	Heavy		
4 High-Mid	Start Here	Heavy	
3 Mid	Light	Start Here	
2 Mid-Low		Light	Start Here
1 Low			

Alarm V

This is the level for the low voltage alarm. You can change the setting with the B button, in increments of 0.1 Volts, between 10 and 14 volts.

Brake Test

This can be used to test the brake locking connection. It will activate the brake and stop circuits for 10 seconds and then reset.

L-10

This shows the history last ten alarm activation's. It displays in two digits showing the sensor number as programmed into the system. In this screen you can also clear the history (press B) and clear the sensors from the system (press C).

B – Add Sensors

Additional sensors can be added in this selection. Press A to add, select the sensor type and then activate the sensor, it will automatically add it to the next free sensor number. When all zones (13) are full, the panel will show 'Snsr Full' and not allow additional sensors to be added.

Please note: The sensor type is critical as it controls the action from the sensor when activated.

C – Add Remote

This enables you to add additional remotes to the system. Your kit comes with two, and the system will allow up to 5. Due to the required encoding, please ensure that you only add RVsecure remotes to the system.

D – Exit Programming Mode

Pressing D returns the system to ready to arm.

Note: Programming mode also has an automatic time out that will return to the main screen if left in programming mode.

Sensor Types for Adding to Zones

The following sensor types can be added to the PlatinumX. They can be added to any zone and multiple instances can be added. Each sensor type has specific actions depending on the arming type, and if using the GPS Communications Hub, has specific outputs.

1. PIR

Passive Infra Red motion detector. This is used inside the vehicle and will activate whenever it detects a person moving around. It is similar to PIR's used in commercial alarm systems but in a smaller physical size to suit RV's.

2. Reed

Reed switches are two part (sender and magnet) switches commonly used on doors to alarm when they are opened.

3. Emergency

An Emergency 'Panic' switch activates all lights/siren and sends an alarm signal. It is available 24/7 and overrides all modes (except if isolated).

4. Water

A water sensor can be used to alarm if there is water present. More commonly used on boats as a bilge alarm.

5. VDOS

Vertical Door Opening Sensors (exclusive to RVsecure) are a tilt switch that can be used on doors/hatches. They have the advantage over reed switches in that being only one part they are easier to install.

6. Pin/B

Pin/B is a sensor type for wired sensors, and use the wired sensor sending module from RVsecure. They are intended for any sensor (ie PIN Switch, IR Beam, wired Reed etc) that does not have a built in sender unit.

7. Aux-P

This is an Auxiliary Power Alarm zone and intended for use with the RVsecure CMOS sender. It allows the use of alarm outputs (12v, 5v or 3.3v) from third party devices. An example of this would be the alarm output from a Victron power system. The response will send a corresponding Power Alarm (and SMS) via the GPS.

8. Aux-I

This is an Auxiliary Alarm zone and intended for use with the RVsecure CMOS sender. It allows the use of alarm outputs (12v, 5v or 3.3v) from third party devices. An example of this would be the alarm output from DVK Monitors Gas Alarm. The response will send a corresponding Alarm Activation (and SMS) via the GPS.

The four fixed zones also have specific actions and outputs as detailed below.

Zone 14 – Battery Low

Zone 15 – Brake Tamper

Zone 16 – Movement

Zone 17 – Anti-Jamming

System Specifications

Operating Voltage	10-18v DC
Operating Temperature	-20 to 60 Degrees C
Humidity	Max 85%
Max system current draw	0.45A @ 13.5 vDC (not including brake/stop/park circuits)

Warranty

The statutory warranty period applies. If the product is defective please contact the retailer that you purchased it from for initial assessment and to process the RMA claim.

For any repair and guarantee processing, the following items are required:

- 1/ Defect component(s) must be returned to the manufacturer via the place of purchase
- 2/ Copy of receipt with purchase date
- 3/ Reason for claim or description of the fault
- 4/ Contact details of claimant

The manufacturer will at its sole discretion repair, replace or refund if it is agreed that the purchased item or sub-component part is faulty. The manufacturer is not liable for any additional costs involved in the return of the product(s) nor is it liable for any damages or compensation.

Liability

1/ tech7/RVsecure accepts no liability for damage done either to the unit itself, its sub components or to the vehicle due to owners incorrect wiring. If in doubt please consult a professional.

2/ tech7/RVsecure accepts no liability for any theft of any property, vehicle or other.

3/ tech7/RVsecure accepts no liability for any damage to any property, vehicle or other due to the operation of the braking circuit (if connected) at any time or under any condition.

Maintenance

Any alarm system requires ongoing testing and maintenance to ensure that it is in top operating condition and to reduce the chances of false alarm. We recommend the following maintenance schedule:

Monthly

Check sensors and control unit physically OK with visual inspection. Check sensors for any flashing indication of low battery. Ensure there is no evidence of cobwebs around the sensors.

Annually

Full alarm test including activation of all zones

PIRs – walk test to ensure correct operation. Remove cover of PIR to ensure no ingress by any insects, fluids etc.

Example Battery Voltages at Capacity Remaining

12V FLOODED LEAD ACID BATTERY VOLTAGE CHART

VOLTAGE	CAPACITY
12.64V	100%
12.53V	90%
12.41V	80%
12.29V	70%
12.18V	60%
12.07V	50%
11.97V	40%
11.87V	30%
11.76V	20%
11.63V	10%
11.59V	0%

12V SEALED LEAD ACID BATTERY VOLTAGE CHART

VOLTAGE	CAPACITY
12.89V	100%
12.78V	90%
12.65V	80%
12.51V	70%
12.41V	60%
12.23V	50%
12.11V	40%
11.96V	30%
11.81V	20%
11.70V	10%
11.63V	0%

12V LiFePO4 BATTERY VOLTAGE CHART

VOLTAGE	CAPACITY
14.6V	100% (charging)
13.6V	100% (resting)
13.4V	99%
13.3V	90%
13.2V	70%
13.1V	40%
13.0V	30%
12.9V	20%
12.8V	17%
12.5V	14%
12.0V	9%
10.0V	0%



Thank You

And we wish you safe travels

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