



## **RVsecure ProtectorX Operating Manual**

# RVsecure Protector Operating Manual

Key	Press	Description
A	Press 1x	System will arm
B	Press 1x	No Action
C	Press 1x	Change of motion sensitivity
D	Press 1x	System will disarm, all strobes / sirens off and reset
D	Press 3x within 10 seconds when alarm off	Programming mode for adding sensors

## Sensors included

ProtectorX Caravan	RVS_CW2	1x PIR 1x Reed
ProtectorX Camper All	RVS_CW1	2x Reed On board Motion Sensor

## Arming the system

When key “A” is pressed to turn the alarm on the control system reads the system sensors. If the sensors are OK then the system will arm, there will be a short strobe 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 strobe flash and long audible beep from the control unit (2 seconds) will indicate the failure to arm. The user can then rectify the situation and try again.

## Arming

### Normal Mode

Pressing “A” arms the system in normal mode with both the sensors (PIR/Reed Switches) and Movement sensors active. Any activation in this mode will activate the strobe and sound the siren.

### Disarming the System

Pressing “D” will disarm the system.

## 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.

### Strobe

- When alarm activated the strobe will run for 35 seconds, it has a rolling sequence that will change every 5 seconds. After 35 seconds it will go into power save mode, this will mean it is on for 1 second and off for 3 seconds. When the alarm is disarmed the strobe power save will reset.

### Anti-Tow

- The Anti-Tow system will only activate on the movement sensor and not the PIR. When activated (between 1 and 5 seconds after sensing initial 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. Multiple activation's can occur sequentially.

**Please note: Installation of the braking relays and braking circuit is optional and not required for the correct**

## operation of the alarm system.

### 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.

### Adding additional sensors to the system

- Press "D" 3x to enter programming mode
- Press "A" to add a sensor
- Activate the sensor for the control unit to register, it will beep to confirm added. If the sensor is already in the system a long beep will be heard to notify you of this.
- If another sensor required, repeat step 2/3
- When finished press "D" to exit
- If you have forgotten to exit, system will time out and exit programming mode automatically

### Wired Sensors (optional)

Wired sensors (PIN switches) can be added to the system. All wired sensors must be N.O type and multiple sensors can be wired in parallel. Connect as per installation instructions. If the sensor is closed (activated) when arming the alarm it will not arm and provides a long beep warning that the system is not ready. Check any wired sensor and rearm.

### Changing motion sensitivity

The motion sensitivity has 5 settings, 1 (low) to 5 (high), the unit comes initially set to 3 - Mid. There are many factors that can effect the required sensitivity. Vehicle weight, weight distribution, suspension type and position, tyre type and pressure, caravan legs up/down as well as many environmental factors including road surface, wind and other conditions. The mounting position of the alarm control unit is also a factor that has an effect on operation.

Press "C" to change. System beeps once if high sensitivity through to 5 times for low 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	<b>Start Here</b>	Heavy	
3 Mid	Light	<b>Start Here</b>	
2 Mid-Low		Light	<b>Start Here</b>
1 Low			

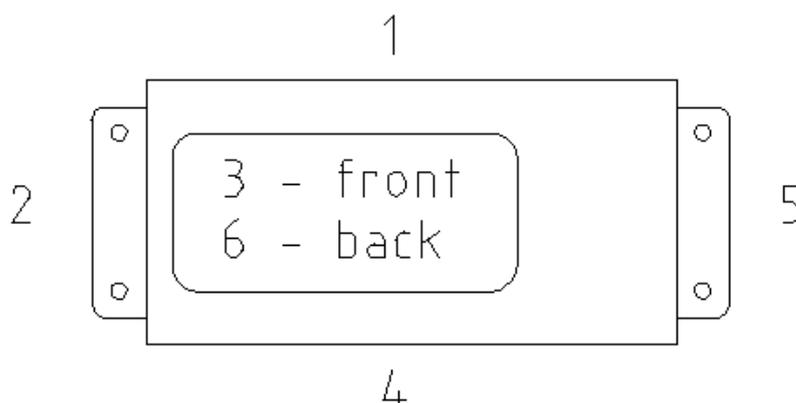
### Tow and door direction

The tow and door directions need to be set depending on the mounting orientation of the unit as this allows the movement sensing to operate correctly. There are six options, 1 to 6. For tow direction choose the option corresponding to the diagram below where the side chosen is facing the front of the vehicle. Ie if 2 is facing the front, select 2 (3 is the front and 6 is the rear of the Control unit). The door direction is the side of the vehicle with the entry door (ie passenger/kerb side of those without a door).

#### Tow Direction

- Press "D" 3x to enter programming mode
- Press "B" to change. System beeps corresponding to the numbers shown.
- Press "B" to change again or "D" to exit

#### Door Direction



1. Press "D" 3x to enter programming mode
2. Press "C" to change. System beeps corresponding to the numbers shown.
3. Press "C" to change again or "D" to exit

**It is essential that the Tow and Door directions be set to allow for correct operation**

It is highly recommended that whenever the alarm is armed that the rear caravan legs are in the down position as this provides additional stability and assists in reducing false alarms.

### **Sensor Battery Replacement**

Each sensor has an expected battery lifetime of between 12 and 24 months under standard operating conditions. 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.

### **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.

## Sensors - Supplemental

RVsecure offer a number of alarm system sensors that either come as standard in our kits or can be added to one of our systems.

### PIR Detector

PIR stands for Passive Infra Red and works by sensing a change in the infra red radiation. The safeGuard PIR is a wireless detector and is included in both the Protector and Platinum kits. Additional PIR's can be added to either system (please see manual on how to add).



Suitable for: Platinum, Protector

Battery: 2x AAA

SKU: RVS\_PIR



### Reed Switch

Reed switches are used on opening doors, hatches etc and consist of two parts, the Reed and the Magnet. When the reed/magnet are moved apart the sensor activates. One Reed switch is included as standard in the Platinum kit.

Suitable for: Platinum, Protector

Battery: 1x CR2032

SKU: RVS\_REED

### Emergency 'Panic' Switch

Emergency switches are a press button switch that tells the alarm to show/sound an alert.

Suitable for: Platinum Only

Battery: 1x A23

SKU: RVS\_EMERG





### Vertical Door Opening Sensor (VDOS)

Caravans have a lot of doors, hatches and toolboxes that work by opening on a vertical plane. The VDOS has the same body as the Reed switch and is attached to the inside of the door. VDOS sensors are exclusive to RVsecure.

Suitable for: Platinum, Protector

Battery: 1x CR2032

SKU: RVS\_VDOS

### PIN Switch

Our PIN switches are strong and made to last.  
PIN switch – 8mm mounting hole, strong plunger that won't bend as some others do.  
They come in a pack of 3 and include connectors.



Suitable for: Platinum, Protector, Zero, Defender

SKU: RVS\_PINSW



### PIN Bracket

Our PIN switch mounting brackets help with mounting PIN Switches in difficult areas.  
Brackets – Stainless Steel, powder coated with an 8mm hole for the PIN switch  
They come in a packet of three

SKU: RVS\_PINBR

## Wired Reed Switch

Wired reed switches are used for doors, hatches etc. They activate the alarm when separated. They come in a packet of two.



Suitable for: Platinum, Protector, Zero, Defender

SKU: RVS\_REEDNO