

# Venus 6 Zone Security & Management System

## Features.

The Venus is a 6 zone wireless security system GSM, SMS & GPRS for communications to control rooms and Users. All SMS / GPRS messages that the Venus sends are fully programmable.

**Any mention of SMS means SMS or GPRS via our Servers.**

- 6 wireless Zones, Low Battery per Zone messages.
- The 6 Wireless Zones can accommodate up to 12 wireless detectors. 2 per zone.
- All zones can be programmed to be on or off for each mode.
- The Venus has 3 Modes of operation, Away, Chime and Off Mode.
- Up to 6 Key ring remote controls can operate the Venus.
- 1 User Id password SMS can also operate the Venus by SMS.
- 2 relay outputs operate Siren and Chime Buzzer.

## OPERATION

### MODES OF OPERATION

The Venus has 3 Modes of operation, Away, Chime and Off Mode.

#### Armed ( Away ) Mode:

When Armed mode is activated the VENUS will respond with 1 beep on the siren, an "Alarm Armed" SMS will be sent. An alarm armed telemetry signal will also be sent if connected to a standard alarm transmitter.

When Armed the VENUS will SMS the Armed message as well as the address where the unit is located, will also be displayed.

Certain Zones can also be set to only Chime in Away Mode. Buzzer will then only beep in Away Mode.

Any activation of an armed wireless zone will result in the Siren sounding and an Alarm SMS being sent. Any further activation will reactivate the siren if it has stopped or lengthen its sounding time. An additional SMS will be sent with the zone identification. A Example of such an SMS is "Alarm Garage at Paint shop 142 Botha ave Lyttelton".

An 'Alarm Activated' Telemetry signal will also be sent to the Armed Response Company if connected. The siren will continue sounding for a maximum of 4 minutes after the last activation.

#### **Activating Armed mode:**

Armed mode can be activated by a key ring remote control or cellular phone.

To activate the system by remote, the blue button must be pressed once.

To activate the system by cellular phone, **#XXXXA** must be sent to the VENUS via SMS. In this message, **XXXX** is a private, four digit, numeric pin code.

## **Off Mode:**

The Off Mode Disarms the VENUS No wireless zone is active when the VENUS is in Off Mode.

If the VENUS was in Armed Mode, it will respond by sounding twice on the siren, and a system Off ("Disarmed") SMS message will be sent. An 'Alarm disarmed' telemetry signal will also be sent.

If the VENUS was in panic mode with the siren sounding the siren will stop when Off mode is activated.

The messages are fully programmable, but the default message is "System OFF Mode". The address where the unit is located, will also be displayed.

### ***Activating Off Mode:***

Off Mode can be activated by key ring remote or cellular phone.

Press the yellow button on the key ring remote control once

Or send **#XXXXO** to the VENUS via SMS.

## **Chime Mode:**

Used to Chime activity in zones without siren activation. Use for outdoor Detectors.

Like all other modes, the active zones can be defined by the user.

If the Venus is switched to Chime mode then any activation of a sensor in one of the active zones will result in the buzzer sounding 6 times and an SMS will be sent to the cell numbers and the telemetry outputs will not activate.

### ***Activating Chime Mode:***

Chime mode can be activated by SMS or key ring remote.

To activate by SMS, send **#XXXXM** to the Venus.

To activate by Key ring remote, press the blue and yellow button simultaneously.

The Venus will respond with 3 beeps on the internal buzzer.

### ***Deactivating Chime Mode:***

Switch the Venus to Off Mode.

**Silent Panic:**

Activated when in immediate danger.

When the VENUS receives a Silent Panic signal from a key ring remote control a Silent Panic SMS will be sent. Also, a Panic telemetry signal will be sent to the armed response company if connected.

An SMS will be sent "Silent Panic at Paint shop 142 Botha ave Lyttelton".

**Activating Silent Panic:**

Silent panic is activated by the key ring remote control by pressing the RED button.

The panel will respond with a settable beep on the internal buzzer it can be set to 0 = no beep to 9 seconds beep.

**Panic: SIREN PANIC**

Activated when in immediate danger.

When the VENUS receives a Panic signal from a key ring remote control a Panic SMS will be sent. The siren will sound for 4 Minutes after the last Panic signal is received.

A panic telemetry signal will be sent to the armed response company if connected.

Each time the VENUS receives a panic signal; it will reset the siren timer and resend the Panic SMS.

The siren can be stopped before the 4 minutes is up by switching to Off Mode.

The default panic message is "Panic at Paint shop 142 Botha ave Lyttelton".

**Activating Panic:**

Press the red and blue button on the remote control together.

**Deactivating Panic:**

Panic can be deactivated by switching to Off Mode.

**Power Supply Battery low warning function:**

A Battery low SMS message will be sent every time the battery voltage drops below a 10.7V. When the battery is charged after the Battery low SMS was sent, a Battery OK SMS will be sent only when the battery voltage is above 12.5VDC.

**24-Hour Test Signal:**

The VENUS will send a 24 hour test SMS at a specified time each day to indicate that the system is still in operation. This 24 hour test SMS can be set to send every 1 to 30 days. The time of day when the SMS is sent can be specified by the user. This 24 hr test signal is in the form of a status report. NOTE The Venus Also sends itself an SMS to set the Internal clock. If Used with a pre paid SIM card the Balance will be sent in place of the 24 Hr test.

**Signal Strength:**

Network signal strength can be requested by sending #XXXXT to the VENUS. The VENUS will reply with a number out of 31, where 31 is perfect signal strength. Anything below 8 / 31 is not acceptable.

**Mains Failed/Restored**

The VENUS will send a mains failed SMS to all programmed numbers 2 minutes after mains power is disconnected from the panel. A 'mains restored' SMS will be sent only when mains power was restored and stable for 2 minutes.

**SMS Commands that can be sent to the Venus to request Information or to change a parameter.**

Function Description	Function Char
Away Mode -	#passA
Off Mode -	#passO
Silent Panic -	#passH
Panic -	#passP
Chime Mode	#passM
Status Report - Away or Off or chime and Mains and Battery	#passL
Request Base and SMSC numbers -	#passI
Request Cell Numbers	#passJ
Request Program Pass, Master Pass and Own Number -	#passK
Request User Codes -	#passU
Request Zone Setup -	#passS
Request Date and Time -	#passT
Enable GPRS -	#passG1
Disable GPRS -	#passG0
Signal Strength -	#passT
Software Version -	#passV
AirTime Request	#passZ
Send SMS Chime Mode	#passC1
No Sending of SMS in Chime Mode	#passC0
#pass is the 4 digit password programmed Default is 4321	

## **Reading Wireless Detectors and Key rings into the VENUS Panel.**

Refer to drawings below.

Start by clearing the memory of the Venus, Press and Hold the learn button the LED will start to flash fast Hold the button in the LED will flash fast and then stop then flash fast again. Let this happen for 3 times to make sure memory is clear.

### **Key ring Remote controls**

1. Press and release the learn button.
2. The Learn LED should switch on.
3. Press and hold the yellow button on the key ring in for 5 seconds.
4. The Learn LED should now flash fast then slowly, when it stops.
5. Key ring 1 has been read in.
6. Wait 20 seconds before testing Keyring
7. Continue from 1 above and read all key rings into the VENUS.

### **Wireless Passives and other detection devices.**

**It is advisable to set the DIP switches to the correct zone beforehand so as to identify the device with a zone. See DIP switch settings below.**

#### **Passives**

1. Press and release the learn button.
2. The Learn LED on the Venus should switch on.
3. Press and release the Transmit button inside the passive.
4. The Learn LED on the Venus should now flash fast then slowly, when it stops Wireless passive is now read in.
5. Continue from 1 above for the rest of the Passives Devices.

#### **Door guards.**

**It is advisable to set the DIP switches to the correct zone beforehand so as to identify the device with a zone. See DIP switch settings below.**

1. Connect a short piece of wire to the N/C connectors on the door guard.  
The N/C connectors are the 2 next to the where the battery connects.  
Once this wire is connected wait 1 minute then continue with 2.
2. Press and release the learn button on the Venus
3. The Learn LED on the Venus should switch on.
4. Remove the wire link on the door guard and check that the door guard LED comes on.
5. The Learn LED on the Venus should now flash slowly, when it stops door guard is now read in.
6. Continue from 1 above for the rest of the door guard Devices.

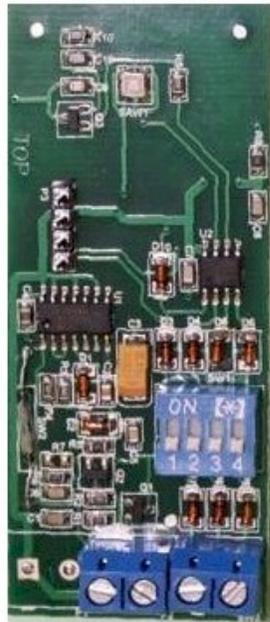
**DIP SWITCH SETTINGS.**

<b>Zone</b>	<b>DIP 1</b>	<b>Dip 2</b>	<b>Dip 3</b>	<b>Dip 4</b>	<b>BIN</b>
<b>Zone 1</b>	<b>On</b>	<b>Off</b>	<b>Off</b>	<b>On</b>	<b>1</b>
<b>Zone 2</b>	<b>Off</b>	<b>On</b>	<b>Off</b>	<b>On</b>	<b>2</b>
<b>Zone 3</b>	<b>On</b>	<b>On</b>	<b>Off</b>	<b>On</b>	<b>3</b>
<b>Zone 4</b>	<b>Off</b>	<b>Off</b>	<b>On</b>	<b>On</b>	<b>4</b>
<b>Zone 5</b>	<b>On</b>	<b>Off</b>	<b>On</b>	<b>On</b>	<b>5</b>
<b>Zone 6</b>	<b>Off</b>	<b>On</b>	<b>On</b>	<b>On</b>	<b>6</b>

Keyring Remote.



**Door guard Low Power**



**SW2 SW3**

**Door guard High Power**



**SW2 is the normally Closed input for a magnetic Switch.  
SW3 is the Normally Open input and will activate Tamper.**

The Door guard, DG, is actually a universal transmitter with integral panic button and connections for a magnetic contact switch or similar device. The DG will send a signal to the control panel when the magnet moves away from the magnetic switch, for example, when a door or window is opened (N/C connector). The normally Open Input is for Tamper.

**Battery Saving Feature. N. B.**

The door guards have a battery saving feature whereby the door has to be closed for at least 30 seconds then when opened the door guard will transmit to the panel. If the door is opened and closed continuously the door guard will not transmit to the panel until the door is closed for at least 30 seconds.

<b>High Power door Guard</b>	<b>Low Power door Guard</b>
<b>Battery saving feature.</b>	<b>Battery saving feature.</b>
<b>DIP Switch Zone Selection.</b>	<b>DIP Switch Zone Selection.</b>
<b>Tamper and Battery supervision.</b>	<b>Tamper and Battery supervision.</b>
<b>External Magnetic or Mercury switches can be connected.</b>	<b>External Magnetic or Mercury switches can be connected.</b>
<b>Power Source = C123 Lithium 6 Volt Battery.</b>	<b>Power Source = CR2477 Lithium 6 Volt Battery.</b>
<b>Current consumption on Idle = Less than 10 uA.</b>	<b>Current consumption on Idle = Less than 10 uA.</b>
<b>Current when transmitting with LED = 24 mA.</b>	<b>Current when transmitting with LED = 12 mA.</b>
<b>Transmitter Range = 80 to 250 Meters indoors.</b>	<b>Transmitter Range = 30 to 50 Meters indoors.</b>
<b>Battery Life = Greater than 2 Years</b>	<b>Battery Life = Greater than 3 Years.</b>



## **Hi Power Wireless Passive.**

The Sensor detects the movement of heat in the infrared spectrum of light. In other words a source of heat such as a human moving past the Sensor field of view will cause the Sensor to detect and a signal will be sent to the Control Panel Control panel. The Sensor will detect movement up to 8-12 meters Away from the device and up to 100 degrees wide.

### **Battery Saving Feature. N. B.**

The Passives have a battery saving feature whereby they will only transmit to the panel if they have not seen any movement for 2 minutes, then if there is movement they will transmit to the panel. This means that in a busy room with people walking around they will stay in a saving mode until no movement is detected, then if any person enters the room they will transmit to the panel.

- **Battery saving feature.**
- **DIP Switch Zone Selection.**
- **Battery supervision.**
- **Up to 10 Kg Pet Immunity standard**
- **Up to 20 Kg Pet Immunity by Covering bottom lens Array.**
- **Power Source = C123 Lithium 6 Volt Battery.**
- **Current consumption on Idle = Less than 10 uA.**
- **Current when transmitting with LED = 18 mA.**
- **Transmitter Range = 50 to 150 Meters indoors.**
- **Battery Life = Greater than 3 Years.**
- **Detection = 12 Meters 100degrees**