Phone: 063 729 6838
Email: michael@fineautomation.co.za
Website: www.fineautomation.co.za

19 Pamela Ave
Morehill, Benoni
Gauteng, 1504

Wireless GSM Alarm System Manual

The VENUS wireless alarm system uses GSM, SMS and GPRS for communication to control rooms and to individual users. All SMS/GPRS messages that the VENUS sends are fully programmable.

The VENUS is powered by a 12 Volt, 2 Amp power supply unit. It can also be powered by a backup 12 Volt, 7 Amp lead acid battery for up to 10 hours.

The VENUS has ports for a buzzer, siren and for radio transmitters for transmitting to control rooms. There are battery monitors on the VENUS that will send messages when the motion detectors or door guards are low on battery and if the units own battery is running low.

There are three different modes of operation. Away mode, sounds the siren if motion is detected. Chime/Stay mode, sounds the buzzer if motion is detected. Off mode, the system is off and won't send any SMS.

Features:

· The 6 wireless zones can accommodate up to 12 wireless detectors, 2 per zone.
· 6 wireless zones, low battery per zone messages.
· 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 keyring remotes can operate the VENUS.
· 1 User Id password SMS can also operate the VENUS by SMS.
· 2 relay outputs operate both the siren and chime buzzer.

The VENUS can operate on prepaid or contract SIM card. When used with a prepaid SMI card, the VENUS will SMS the available airtime balance every 1 to 30 days, programmable by the user.

Examples of Messages

· "Alarm Garage at Paint shop 142 Botha Ave Lyttelton".
· "Panic at Paint shop 142 Botha Ave Lyttelton".
· " Intruder at Font Office at 133 Buyville Ave".

Phone: 063 729 6838
Email: michael@fineautomation.co.za
Website: www.fineautomation.co.za

19 Pamela Ave
Morehill, Benoni
Gauteng, 1504

FINE AUTOMATION

Operation of Venus

Away Mode

When Away 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.

Certain zones can also be set to only Chime in Away Mode. The 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.
An 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 Away Mode

Away mode can be activated by a keyring remote or by SMS.

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 that is programmable.

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 an armed mode, it will respond by sounding the siren twice and a system off (“Alarm Disarmed“) SMS message will be sent.

An “Alarm Disarmed” telemetry signal will also be sent if a radio transmitter is connected. 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 keyring remote or SMS.

- Press the YELLOW button on the keyring remote control once or
- Send #XXXXO to the VENUS via SMS. (XXXX is password and last letter is an O, not a zero).

Phone: 063 729 6838
Email: michael@fineautomation.co.za
Website: www.fineautomation.co.za

19 Pamela Ave
Morehill, Benoni
Gauteng, 1504

FINE AUTOMATION

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. The telemetry outputs will not activate.

Activating Chime Mode

Chime mode can be activated by keyring remote or SMS.

- To activate by keyring remote, press the BLUE and YELLOW buttons simultaneously. The VENUS will respond with 3 beeps on the internal buzzer or
- Send #XXXXM to the Venus via an SMS. (Where XXXX is password for VENUS)

Silent Panic

Activated when in immediate danger. When the VENUS receives a silent panic signal from a keyring remote, a silent panic SMS will be sent.
A panic telemetry signal will also be sent to the armed response company if it is connected.
An example of a SMS sent is “Silent Panic at Paint shop 142 Botha ave Lyttelton”.

Activating Silent Panic

Silent panic is activated by the keyring remote by pressing the RED button.

The panel will respond with a settable beep on the internal buzzer which can be set to 0 = no beep or to a 9 second beep.
Switch to off mode to deactivate.

Siren Panic

Activated when in immediate danger. When the VENUS receives a panic signal from a keyring 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 Siren Panic

Press the RED and the BLUE buttons together (simultaneously) on the key remote.
Switch to off mode to deactivate.

Phone: 063 729 6838
Email: michael@fineautomation.co.za
Website: www.fineautomation.co.za

19 Pamela Ave
Morehill, Benoni
Gauteng, 1504

FINE AUTOMATION

Other Functions of the Venus

Power Supply Battery Low Warning Function

A Battery low SMS message will be sent every time the units battery voltage drops below a 10.7V.
The VENUS starts charging the battery after a battery low message and when the main power is back on. A battery OK SMS will be sent only when the battery voltage is above 12.5VDC and the VENUS will stop charging the battery.

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 also be specified by the user. This 24 hour 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 prepaid SIM card the balance will be sent in place of the 24 hour 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. (XXXX is the password for the Venus)

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 the mains power is restored and stable for 2 minutes.

Sensor Battery Low

The motion detectors (HPPIR) will start to repeatedly flash when the battery starts to run low. These batteries last for 3 – 5 years. However it is recommended to check the batteries every 2 years. The door guards will also start to flash when the battery is running low.

Phone: 063 729 6838
Email: michael@fineautomation.co.za
Website: www.fineautomation.co.za

19 Pamela Ave
Morehill, Benoni
Gauteng, 1504

FINE AUTOMATION

Programming Sheet for VENUS

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 programed Default is 4321	

NOTE: The default password is: 4321

Phone: 063 729 6838
Email: michael@fineautomation.co.za
Website: www.fineautomation.co.za

19 Pamela Ave
Morehill, Benoni
Gauteng, 1504

FINE AUTOMATION

Keyring Remotes for VENUS

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

Programming for Keyring

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

Wireless Passives for Venus

The wireless passive 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 this and a signal will be sent to the control panel.
The sensor will detect movement up to 8-12 meters away from the device and up to 100 degrees wide.

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.

Features

· 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 and 100 degrees wide field.

Venus Wireless Passive

Phone: 063 729 6838
Email: michael@fineautomation.co.za
Website: www.fineautomation.co.za

19 Pamela Ave
Morehill, Benoni
Gauteng, 1504

FINE AUTOMATION

Programming the Wireless Passive

You need to set the DIP switches to the correct zone beforehand so as to identify the device with a zone. See DIP switch settings below.

Zone	DIP 1	DIP 2	DIP 3	DIP 4	BIN
Zone 1	On	Off	Off	On	1
Zone 2	Off	On	Off	On	2
Zone 3	On	On	Off	On	3
Zone 4	Off	Off	On	On	4
Zone 5	Off	Off	On	On	5
Zone 6	On	On	On	On	6

Transmit Button on Passive

1. Press and release the learn button on the VENUS.
2. The learn LED on the VENUS should switch on.
3. Press and release the transmit button inside the passive (black switch inside passive).
4. The learn LED on the VENUS should now flash fast then slowly.
5. When it stops the wireless passive is now read in.
6. Continue from 1 above for the rest of the passive devices.

Door Guards for Venus

The door guard is actually a universal transmitter with an integral panic button and connections for a magnetic contact switch or similar device. It 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.

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.

Features

· Battery saving feature.
· DIP Switch zone selection.
· Tamper and battery supervision.
· External magnetic or mercury switches can be connected.
· Power source = C123 lithium 6 Volt battery.
· Current consumption on idle = less than 10 uA.
· Current when transmitting with LED = 24 mA.
· Transmitter range = 80 to 250 meters indoors.
· Battery life = greater than 2 Years

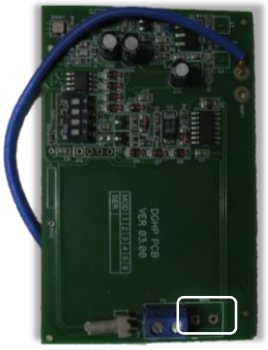
Phone: 063 729 6838
Email: michael@fineautomation.co.za
Website: www.fineautomation.co.za

19 Pamela Ave
Morehill, Benoni
Gauteng, 1504

Programming Door Guards

You need to set the DIP switches to the correct zone beforehand so as to identify the device with a zone. See DIP switch settings above for passives.

Zone	DIP 1	DIP 2	DIP 3	DIP 4	BIN
Zone 1	On	Off	Off	On	1
Zone 2	Off	On	Off	On	2
Zone 3	On	On	Off	On	3
Zone 4	Off	Off	On	On	4
Zone 5	Off	Off	On	On	5
Zone 6	On	On	On	On	6



Normally Closed Connectors

1. Connect a short piece of wire to the normally closed 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. Its on the back.
5. The learn LED on the VENUS should now flash slowly, when it stops, the door guard is now read in.
6. Continue from 1 above for the rest of the door guard devices.