For technical support, contact: 011 202 5884 or 083 235 4916.

User Manual – updated 05/2021

www.smsalert.co.za/standalone.pdf **- full version**

- DIY - Portable alarm system with pepper gas., plugs into wall socket & operate – no/little installation needed.
- **10 cell phone users** are notified via SMS when the alarm goes off. (First 5 users receive all SMS's & another 5 users receive panic SMS's only)
- Includes pepper **gas** (60G), one **PIR** motion detector, **sound bomb** siren, 1.2A **battery** (or external 7A) & 2-button **remote** (for arm/disarm & panic), flash LED for power loss and fast flicker on intrusion activation.
- Default state is a normal alarm (no spray of gas) until it is chosen how/if the pepper gas must function.
- **Power Loss & Restore** SMS notification, battery low SMS
- System can be checked, armed, and disarmed via SMS, or remote.
- Listen-in **microphone** to verify adjacent noises.
- It also includes Additional **6 zones** split into 2 partitions for expansion at a later stage.
- The 2nd partition can be bypassed via latch switch. An additional relay output can be used e.g., to open/close a gate or switch a light on and off.
- Other functions: Walk-through test function & auto battery disconnect when battery is low.
- Direct Solar Panel, 220VAC or 12V operation. Regulator already built-in for solar application
- Mini **15 Hz LED strobe light** for eye/brain irritation during night also acting as an **emergency night light** during power outages when movement is detected.

Pepper gas operations
The pepper gas sprays 5 pulses at a time when it is set on automatic. It sprays 1 to 10 pulses when set on manual, depending on which message you SMS it. It can spray 20 pulses before the can is empty.

By Default, it is a normal Alarm, and the pepper gas will not spray, Automatic mode has to be selected via SMS.
Optional **Pepper Gas Slave units** can be connected I,e, An enclosure with 1 passive, pepper gas & power supply for expansion into other rooms.

The pepper gas will either spray together with the master unit, or each slave unit can spray on its own but get arms via the main units.

Other features/add-ons – price may change
- Relay B can be used for **external radio/open close gate**
- **Individual Zone on/off** via SMS
- **24 hour zones** and silent selectable zones
- Inputs by default NC, but individual inputs can be changed to NO (mixed)
- **User G is a priority user** that gets notified in case of a panic e.g., **control room**
- **<new version> -** Internal battery **3A/6A Lithium-ion upgrade** available on order – built in-house
- External mount 420g pepper gas dispenser
Other versions (420g):

YOU ARE REQUIRED TO HAVE A NOTICE BOARD ON YOUR PREMISES THAT INDICATES THE USE OF A PEPPERGAS ALARM.
GREAT CAUTION MUST BE TAKEN WITH THIS PRODUCT – MILK IS ONE RECOMMENDATION TO HELP RELIEVE ACCIDENTAL SPRAY.

Demo LED Light functions:

1. **See in the night**. Switches on when power is off, and movement is detected
2. Indicates **Arm and Disarm**
3. Flashes rapidly when alarm goes off to **affect vision of intruder.**

SMS Command Summary

Use **lower case** for **all commands** sent to the SMS Alert (e.g., 1234 **ap**, 1234 **r**, 1234 **b**, etc.)

Use **UPPER CASE** only with the following 4 commands:
1234 TC1 (terminate call),
1234 **TC0**
1234 **CODE**

Most SMS commands are toggle commands; meaning sending the same SMS command again will undo the command.

SMS command	Default setting	Description
Loading / Cancel users (10 Users)		
1234 b		To let the SMS Alert report to the 1st phone (toggle). **If you SMS <u>1234 b</u> you will** *load* use B. If you SMS <u>1234 b</u> again, you will *cancel* user B. (In other words, you will toggle it on & off). The same SMS gets used every time. <u>There is no user A!</u> User B is the main user and indicated by the Yellow/Amber LED on the side. It must be on for inputs to trigger, and for the other users to receive SMS if these users (C, D,E) are loaded. See further down in document for more information.
1234 c		Report to 2nd phone – use to load and cancel user C (toggle). Same for 1234 d to 1234 k.
1234 d		Report to 3rd phone
1234 e		Report to 4th phone
1234 f		Report to 5th phone
1234 g		Report to 6th phone - Only receives Panic SMSe ! – use 1234 41 to change the setting
1234 h		Report to 7th phone - Only receives Panic SMSe !
1234 i		Report to 8th phone - Only receives Panic SMSe !
1234 j		Report to 9th phone - Only receives Panic SMSe !
1234 k		Report to 10th phone - Only receives Panic SMSe !
1234 z		Clear/delete all users

General Settings 0		
1234 r		To request the status of the SMS Alert e.g. Armed, BC--, #000, #12345678. The SMS Alert will respond with, for example, the following: <u>ARMED B - - -, #0B00 #87650001</u> **ARMED** System is armed. **B- - -** User B loaded only. Users C, D and E are not loaded. **#0B0** Relay B is switched on. Relay A and C are off. # 87650001 **Inputs 8,7,6,5 is on / tripped (open).**
1234 00	ON	**ARM / DISARM SMS notification ON/OFF** for the Key Input.
1234 01	OFF	Outgoing missed call function on/off for zone 1 and to user B only.
1234 02	OFF	Relay A will pulse 5 times when zone 1 is tripped. Can be used to trigger a pepper gas dispenser.

YOU ARE REQUIRED TO HAVE A NOTICE BOARD ON YOUR PREMISES THAT INDICATES THE USE OF A PEPPERGAS ALARM.
GREAT CAUTION MUST BE TAKEN WITH THIS PRODUCT – MILK IS ONE RECOMMENDATION TO HELP RELIEVE ACCIDENTAL SPRAY.

1234 03	NC	Change inputs 1-8 between NO and NC – The device will reset – There is no return SMS.
1234 04	ON	**Siren ON/OFF for Panic SMS** (last input). Can be used for silent Panic.
1234 05	OFF	Advanced setting for use outside of SA. This allows taking the international prefix code into consideration if needed. When set, also send **1234 WC** to the SMS Alert. The return SMS will contain SET=0111x where x (5th position) must be 1. If it is 0 then send **1234 W** again. This prevents a problem when the network keeps sending an immediate return SM to the SMS Alert for every SMS the SMS Alert sends out.
1234 06	OFF	Any missed call will pulse Relay A.
1234 07	ON	**Siren Bleep ON / OFF** when the system is ARMED / DISARMED.
1234 s		Recall status of settings **1234 00 to 1234 07**.

General Settings 1

1234 10	OFF	**Bright White Emergency Movement LED Night Light** ON/OFF when AC power is OFF, and movement is detected on Zone 1. Timeout 4 mins. For Devices fitted with bright LED. – Also enable **1234 13** Note: Relay E won't work correctly if this setting is on
1234 11	OFF	Power Loss Restore SMS ON/OFF for input 3. Used if SMSes are a problem during power outages.
1234 12	OFF	Relay A will pulse 5 times (Spray Pepper gas) when Panic is tripped. Similar to **1234 02.**
1234 13	OFF	Camera flash for devices fitted with GSM camera device.
1234 14	OFF	**Allow 1234 a on and 1234 a off to latch Relay A.** By default, off to prevent pepper gas dispenser from locking up or getting damaged when **1234 a on** is sent by mistake, instead of **1234 ap.**
1234 15	OFF	**Auto Arm** after 1 hour when no movement is detected (all zones must be wired, e.g. be closed)
1234 16	OFF	**Auto Arm** after 1 hour when no movement is detected (all zones does NOT need to be wired)
1234 17	OFF	Changes **KEY** input to latch mode instead of pulse mode for arm and disarm
1234 v		Recall status of settings **1234 10 to 1234 17**.

Individual / mixed Zones between NC and NO
Used for initial installation to make SMS Alert compatible to sensors/devices

1234 21	OFF	Change input 1 to NO (Zone 1)
1234 22	OFF	Change input 2 to NO (Zone 2)
1234 23	OFF	Change input 3 to NO (Power Loss / Restore) (Will cause text to swop around)
1234 24	OFF	Change input 4 to NO (Zone 4)
1234 25	OFF	Change input 5 to NO (Zone 5)
1234 26	OFF	Change input 6 to NO (Zone 6)
1234 27	OFF	Change input 7 to NO (Zone 7)
1234 28	OFF	Change input 8 to NO – Bypass input.
1234 w		Recall status of settings 1234 20 to 1234 28.

Individual / mixed Zones ON / OFF
Used to disable a zone while the alarm is armed e.g., false alarms or indoor sensors while at home

1234 31	ON	Switch off Input 1 (Zone1)
1234 32	ON	Switch off Input 2 (Zone2)
1234 33	ON	Switch off Input 3 (Power Loss Restore) – Same effect as 1234 11.

YOU ARE REQUIRED TO HAVE A NOTICE BOARD ON YOUR PREMISES THAT INDICATES THE USE OF A PEPPERGAS ALARM.

GREAT CAUTION MUST BE TAKEN WITH THIS PRODUCT – MILK IS ONE RECOMMENDATION TO HELP RELIEVE ACCIDENTAL SPRAY.

1234 34	ON	Switch off Input 4 (Zone4)
1234 35	ON	Switch off Input 5 (Zone5)
1234 36	ON	Switch off Input 6 (Zone6)
1234 37	ON	Switch off Input 7 (Zone7)
1234 38	ON	Switch off Input 8 (Zone8) – May cause zones 5 to 7 to be bypassed – *not tested**
1234 x		Recall status of settings 1234 30 to 1234 38.

Silent Zones ON / OFF (version 13.2 upwards)   ON = NOT silent   OFF = Silent

1234 71	ON	Zone 1
1234 72	ON	Zone 2
1234 73	ON	Unless configured as Power Loss Restore
1234 74	ON	Zone 4
1234 75	ON	Zone 5 – input 8 must be grounded if bypass is used
1234 76	ON	Zone 6 – input 8 must be grounded if bypass is used
1234 77	ON	Zone 7 – input 8 must be grounded if bypass is used

Other Commands

1234 41		Allow all inputs to be sent to all users – e.g., the last 5 users will now also receive all SMSes.
1234 42	OFF	**Siren on time** 5 min vs 1min (default)
1234 43		Change input 9 between **Panic** and **Battery Low** (long delay)
1234 44		**10 Second delay and siren warning** before pepper gas is sprayed unless disarmed. Applicable with 1234 02 is set to automatic.
1234 45	OFF	**Bright White Emergency Movement LED Night Light** will flash once when armed and twice when disarmed. Sometimes useful at night as an indication when you don't want the loud siren to bleep. To enable/disable the siren bleep user **1234 07**.
1234 46	OFF	Relay B will pulse once when the siren goes off – For external **radio trigger**
1234 48		Return xxxxxxx8 will **pulse** relay B on **missed call.** return xxxxxxx- will **pulse** relay A on **missed call.** 1234 06 must be activated/enabled. Change pulse to latch via 1234 61
1234 61		Return 1xxxxxxx will **latch** Relay A or B, if -xxxxxxx will pulse Relay A or B on Missed call. Relay A or B depends on 1234 48.
1234 62	OFF	**Secure PUMP switching A**: 1234 ap must be sent twice within 5 mins to pulse the relay. Used to securely switching a pump on – (Relay A)
1234 64	OFF	**Secure PUMP switching B**: 1234 bp must be sent twice within 5 mins to pulse the relay. Used to securely switching a pump on – (Relay B)
1234 63	OFF	**Secure PUMP switching:** Enable "Timeout" SMS for 1234 62 if second SMS is not received within 5 mins
1234 AIRT		Airtime should be checked via the Service Provide APP, register the SIM beforehand
1234 TC1		Switches auto answer off (TC = Terminate Call).
1234 TC0		Switches auto answer on.
1234 VER		Returns GSM model version and signal strength.
1234 CODE		Changes the code 1234. Will not affect 1234 AIRT, TC1, TC0, VER.

24-hour Zones ON / OFF (version 12.0 upwards)

1234 51	OFF	Zone 1

Company Reg. nr: 2003/043293/23
YOU ARE REQUIRED TO HAVE A NOTICE BOARD ON YOUR PREMISES THAT INDICATES THE USE OF A PEPPERGAS ALARM.
GREAT CAUTION MUST BE TAKEN WITH THIS PRODUCT – MILK IS ONE RECOMMENDATION TO HELP RELIEVE ACCIDENTAL SPRAY.

1234 52	OFF	Zone 2
1234 53	OFF	Unless configured as Power Loss Restore
1234 54	OFF	Zone 4
1234 55	OFF	Zone 5 – input 8 must be grounded if bypass is used
1234 56	OFF	Zone 6 – input 8 must be grounded if bypass is used
1234 57	OFF	Zone 7 – input 8 must be grounded if bypass is used
1234 58	OFF	N/A if not configured as a zone (8)

Renaming input strings/text (zones)

		The new SMS text must not be longer than 19 characters, including spaces, commas, etc. Example: If you want input 1 to SMS "**John's room!**" instead of "Burglary" then: 1. SMS **1234 1** (one space between 4 and 1 and no space afterwards.) from your cell phone 2. You will receive the following return SMS back: **Str 1?** 3. Then send the following SMS: **John's room!** (Do not include 1234!) 4. You will get the following SMS back: **Str1 OK.** TIP: If you rename Zone 1 to <u>Front door</u> via 1234 1, then rather rename it to <u>1-Front Do</u> In future if you only want to switch off this zone, then you know you must send 1234 3<u>1</u>
1234 1		Input 1 (Zone 1)
1234 2		Input 2 (Zone 2)
1234 3		(n/a)
1234 4		Input 4 (Zone 4)
1234 5		Input 5 (Zone 5)
1234 6		Input 6 (Zone 6)
1234 7		Input 7 (Zone 7)
1234 8		Not applicable – Valid for the 7 and 8 zones SMS Alert Alarm systems.
		*Panic is not rename-able

Output Relay Control

		Anyone can operate the relays – you do not need to be a user, but you must know the code e.g., 1234) *Relays will not pulse if it is already switched on. First switch it off. Pulse duration is about 1 second. Relays will remember their settings if the unit is re-powered. See further down in document for more information.
1234 a on		Switch relay A on – see 1234 14
1234 a off		Switch relay A off – see 1234 14
1234 ap		Pulse Relay A <u>once</u> - (For pepper gas purposes)
1234 app		Pulse Relay A <u>10 times</u> – Relay A only (For pepper gas purposes).
1234 b on		Switch relay B on
1234 b off		Switch relay B off
1234 bp		Pulse Relay B once
1234 c off		Switch relay C off, and system disarmed
1234 c on		Switch relay C on, and system armed

Company Reg. nr: 2003/043293/23

YOU ARE REQUIRED TO HAVE A NOTICE BOARD ON YOUR PREMISES THAT INDICATES THE USE OF A PEPPERGAS ALARM.
GREAT CAUTION MUST BE TAKEN WITH THIS PRODUCT – MILK IS ONE RECOMMENDATION TO HELP RELIEVE ACCIDENTAL SPRAY.

1234 cp		Pulse Relay C once – N/A
1234 d on	n/a	Switch relay D on (relay not fitted)
1234 d off	n/a	Switch Relay D off
1234 dp	n/a	Pulse relay D once
1234 e on	n/a	Switch relay E on (transistor output for external relay PCB)
1234 e off	n/a	Switch relay E off
1234 ep	n/a	Pulse Relay E once
1234 all on		Switch all Relays on
1234 all off		Switch all Relays off

```
Adding text addresses/names/longer text at the Start(S) or End(E) of Text
Example
Add "123 Walker street, Sandton" in front of all SMS alarms, e.g. Burglary, Arm/Disarm, Panic
E = end, S = start
SMS 1234 devicename1E.123 Walker street, Sandton. = "123 Walker street, Sandton-Burglary"
SMS 1234 devicename1S.123 Walker street, Sandton. = "Burglary-123 Walker street, Sandton"
DOT(.) very important
SMS 1234 devicename0E.demo. = 0 will disable the name feature again
SMS 1234 devicename0S.demo. = 0 will disable the name feature again
```

Quick Start Steps

1. **Preparing SIM-card** - Buy an MTN, Vodacom or Cell C starter pack (prepaid or contract) and RICA it (you need your id and proof of address for this). Ensure that you can send an SMS out from the SIM-card, before you put it in the SIM-card slot of the SMS Alert. Making a call to the SMS Alert only is not sufficient to test the SIM-card. PIN-code request must be deactivated before you insert the SIM-card into the SMS Alert.
2. **Airtime** - Ensure that the SIM-card has sufficient credit. Load airtime if necessary.
3. **Insert the SIM-card** into the SIM-card slot.
4. Connect the **battery**. **Wait 1 minute** and then insert the plug into the **wall socket**.

5. SMS **1234 b** from your cell phone to the SMS Alert. Note the **yellow LED** will light up when B is active. This step tells the SMS Alert where to send SMSe when inputs are tripped. **There must be a space** between **1234** and **b**. If you SMS <u>1234 b</u> again, you will <u>cancel</u> user B. If you SMS <u>1234 b</u> again, you will <u>reload</u> user B. (In other words, you will **toggle it on & off**).

6. The SMS Alert will respond to step 5 by sending its status back to you (e.g., ARMED B- - -, #0000 #00000000). Ensure the character "B" appears in the SMS to show user B is loaded. The string means the following:

   ARMED   System is armed.
   B- - - -   User B loaded only. Users C, D and E are not loaded.
   #0000   Relay B is switched on. Relay A and C are off.
   # 87650001   Inputs 8,7,6,5 are on / tripped.

   Do not confuse the letter B with the letter B under the relays.

YOU ARE REQUIRED TO HAVE A NOTICE BOARD ON YOUR PREMISES THAT INDICATES THE USE OF A PEPPERGAS ALARM.
GREAT CAUTION MUST BE TAKEN WITH THIS PRODUCT – MILK IS ONE RECOMMENDATION TO HELP RELIEVE ACCIDENTAL SPRAY.

7. The system is **armed** by default. **Zone 1** (the PIR sensor fitted on box) must not be tripped for 20 seconds e.g. picking up movement. Any movement after the 20 seconds will trip the alarm. Press the **white** button to disarm the system. You will now receive the following SMS: **Zone 1**.

Arm / Disarm Methods (via remote or cell phone)

1. **White button on remote** = arm/disarm
   or
2. SMS **1234 c on** (armed) or **1234 c off** (disarmed) from any cell phone.
3. **Red button on remote** = panic. If low battery voltage function is not used.

Adding/programming an Additional Remote

For programming/adding additional remotes, please see step-by-step video on the following web site: www.smsalert.co.za, under Manuals. Please note the remote you received when you bought the unit is already programmed.

Working of the Pepper Gas

There are 2 options:
1) The pepper gas sprays 5 pulses automatically when the PIR/sensor (zone 1) is triggered.
2)The pepper gas only sprays when you SMS it to spray (manually).

By default, the system is in manual mode meaning it will not spray when zone 1 is tripped. When you want the pepper gas to spray, SMS **1234 ap** (to spray once) or **1234 app** (to spray 10 times). A pepper gas can can spray 15 to 20 single sprays before it is empty.

To switch the system to automatic mode. **SMS 1234 02** to the SMS Alert to toggle the function on. The system will now spray immediately (5 sprays) when the sensor (zone 1) is triggered. Send the same message again to switch the automatic function off.

How to program the SMS Alert to report to a 2ⁿᵈ, 3ʳᵈ or 4ᵗʰ cellphone (ARMED ON **B- - -,** #0000 #00000000)

<u>PLEASE NOTE: THE 1ˢᵀ 5 USERS WILL RECEIVE ALL THE SMS'S. THE LAST 5 USERS WILL RECEIVE PANIC SMS'S ONLY. (SMS ALERT STAND-ALONE ALARM, VERSION 10.4 AND LATER).</u>

There are 4 users: B,C,D,E. Follow step 5 of Quick Start Steps to activate user B which is the first user. If you want the SMS Alert to report to the 2ⁿᵈ cellphone, SMS **1234 c** from the second cellphone to the SMS Alert. To toggle this feature **off**, SMS **1234 c** again from any cellphone to the SMS Alert. The last phone that toggled a user **on**, becomes that user.

E.g: 1234 c (There **must be one space** between **1234** and **c**, and no spaces afterwards. Do the same for **1234 d** (3ʳᵈ), and **1234 e** (4ᵗʰ). User B must be ON for the other users (if loaded) to also receive SMS messages.

<u>New function to add cellphone numbers:</u>
In conjunction with the current method of loading numbers the following command allow users to be loaded from one point/cellphone. This eliminates the need to send a SMS from each cellphone handset that needs to be added.

YOU ARE REQUIRED TO HAVE A NOTICE BOARD ON YOUR PREMISES THAT INDICATES THE USE OF A PEPPERGAS ALARM.
GREAT CAUTION MUST BE TAKEN WITH THIS PRODUCT – MILK IS ONE RECOMMENDATION TO HELP RELIEVE ACCIDENTAL SPRAY.

When a DOT and phone number is placed after the current command, the phone number will be loaded into that position. The return SMS will be sent to the new cellphone number, not the cellphone number that loads it. You can however check if all the numbers are loaded, by sending **1234 r** to the cellphone number of the SMS Alert. Example: To load 27821231234 into User B, send the following SMS from one cellphone, to the cellphone number of the SMS Alert:

1234 b.27821231234 (only use 1234 b,c etc., with no phone number if it is not a remote number)
or
1234 e.27821231234

If a user is already loaded, then the command will first delete it (toggle off). It then needs to be sent again. The international setting must be activated for use outside of SA before this can be done (not tested). If it fails, then revert back to the current method. Applicable to the GSM module marked Version 2.5 and up.

Please keep track which user is loaded as B, C, D etc. Otherwise all users/numbers will be deleted when you want to load or delete users, and you cannot remember which person is assigned as which user.

Split / Bypass operation (via black loop wire)
Zones 5,6 and 7 can be included or bypassed via input 8, as a group. When input 8 is negative, all zones e.g. 1-7 will report an alarm event. When input 8 is not negative, zones 5 to 7 are excluded / bypassed and will send an SMS or trip the siren. Input 8 therefore includes/excludes zones 5 to 7 during normal operation.

Auto-Answer (silent listen-in)
This applies to SMS Alerts fitted with a microphone. By default Auto-Answer is on. When you dial the SMS Alert from any cellphone, the unit will ring twice silently, pick up the call and you will be able to hear surrounding noises via the microphone. To switch off auto-answer (when you don't want someone to listen in) – **SMS 1234 TC0** (0 = a digit). To switch it back on **SMS 1234 TC1**.

Siren
If user B is enabled (yellow LED on) and the unit is armed, the siren output will trigger for 1 minute and then reset. E.g. the siren will switch off (time-out) after 1 minute or if the system is disarmed. The siren will **switch off** when a call is made to listen in.

Airtime on prepaid SIM-cards can also be checked by registering the cellphone number of the SMS Alert on www.vodacom4me.co.za (for vodacom) or the applicable Service Provider's website.

Airtime can also be loaded via internet banking, an ATM, or by removing the SIM-card and putting it in your own personal phone using the voice method.

**Disconnect the power from the SMS Alert when the SIM-card is removed.

SMS Alert Cellphone App (currently only for Android phones)

To download our SMS Alert app to your cellphone (currently only Android phone), please visit our web site at www.smsalert.co.za. On the left-hand side of the home page, underneath the SMS Alert logo, there is a link you can follow. Please note the link must be followed with your cellphone (not your PC), to download it to your cellphone.

Because it is a new app, it is not yet available from the Google Play store.

YOU ARE REQUIRED TO HAVE A NOTICE BOARD ON YOUR PREMISES THAT INDICATES THE USE OF A PEPPERGAS ALARM.
GREAT CAUTION MUST BE TAKEN WITH THIS PRODUCT – MILK IS ONE RECOMMENDATION TO HELP RELIEVE ACCIDENTAL SPRAY.

An app for iPhones is being developed.

General information

3	Panic Input	Always enabled, negative trip and does not depend on the Key input. Panic input can be configured to make the siren go on or not (silent panic).
4	Key Input	Arms and disarms all the zones.
5	Green LED	Indicates when the SMS Alert is sending an SMS. The LED will stay on for 3 seconds. **If the light is flashing, a problem exists**. See troubleshooting. After 2 minutes the SMS Alert will attempt to reset the flashing LED.
6	Yellow LED	Indicates user B is active, and the SMS Alert will at least report to user B. User B is the main user, and if it is off, **C**, **D** and **E** won't work even if they were toggled on.
7	Red LED	Indicates if the system is armed or disarmed.
8	Change Inputs NO / NC	SMS **1234 03** to change from **normally open (NO)** to **negative remove (NC)**. The SMS Alert will reset and power up again. Not recommended for this product.
9	SIM-card type	When last tested, the SMS Alert accepts MTN, Vodacom or CellC SIM-cards. contract or prepaid.
10	International code prefix use	SMS **1234 05** to enable. Consult your supplier. **Please note that SMS Alert has been tested in South Africa only.** For international use when the above is set, also send **1234 WC** to the SMS Alert. The return SMS will contain SET=0111x where **x (5th position)** must be **1**. If it is **0** then send **1234 WC** again. This prevents a problem when the network keeps sending an immediate return SMS to the SMS Alert for every SMS the SMS Alert sends out.
11	Finding out what the cellphone number of the SMS Alert is	Put the SIM-card of the SMS Alert into your cellphone and dial the following numbers: MTN: *123*888# Vodacom: *111*501# Telkom / 8ta: *1# Cell C: *147*100#

Technical Specifications

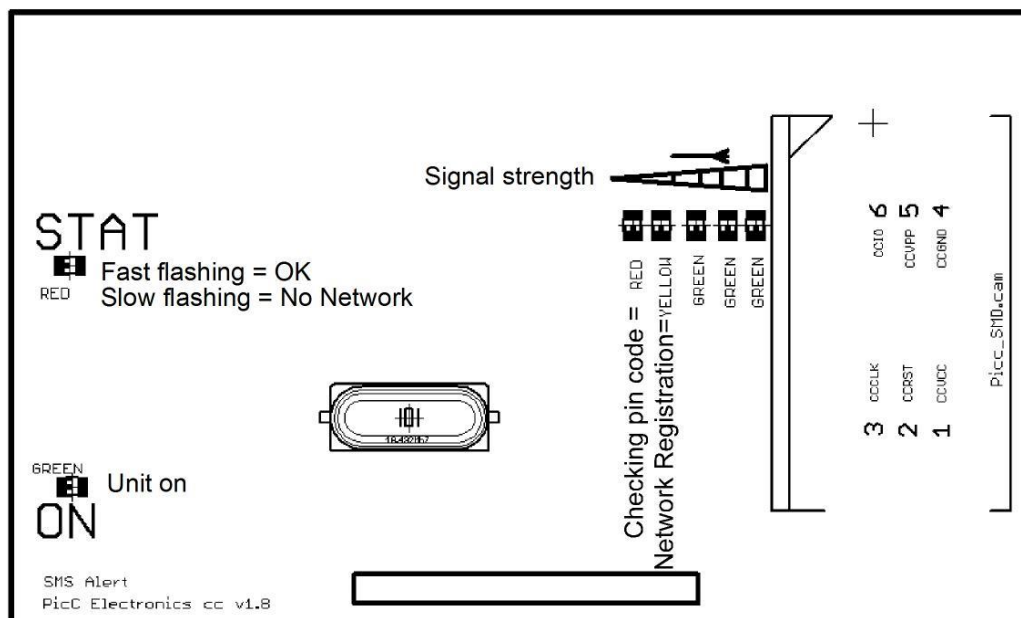| 1	Power supply	9 - 14VDC volt DC, 500mA (milliamps). An in-line batter is preferred for smooth power. Power supply must be doubled-up.
2	Power consumption	Standby current 30 – 50mA, 400mA peak when SMS is send or received.
3	Users	The inputs can report to up to 4 users B,C,D and E.
4	Relay contacts	10A / 124VAC – It is not recommended to switch 220VAC unless you are a certified electrician.
5	Inputs	Inputs 1 – 8 optically isolated and negative or positive trip selectable via jumper. The Panic input can only be tripped negatively. Rename another input to Panic if only a positive signal is available. Input 3 is a dual state input – It trips on both signal conditions. Inputs are buffered control for simultaneous triggering. Key input – NO positive pulse trip.
6	Siren output	1.5 A transistor emitter output.

Fault finding / Troubleshooting

1	No or bad cellphone signal	Ensure the SIM-card holder contacts are clean. Use an earbud. Try to use an external aerial (available from supplier).
2	Flashing green LED	Re-power the SMS Alert system. This happens when the SMS Alert's power is connected (reset) three times in a short period. The automatic reset recovery is then disabled to protect the phone until power is removed and applied again. The SMS Alert will also attempt to reset itself after 2 minutes.
3	Other equipment used in conjunction with SMS Alert	It is not recommended that other receivers, transmitters or equipment be kept inside the SMS Alert box.
4	Ad-hoc behaviour	Ensure that a very good / smooth Power Supply Unit (PSU), or power from the alarm panel is used where florescent tubes or machinery are not in the proximity of the SMS Alert. Auxiliary outputs on panels do not provide sufficient power.
5	The green light goes on but no SMS is received	Ensure the SIM-card is properly registered. Insert the SIM-card in your own personal phone and call e.g. MTN (141) or Vodacom (100) to clarify the problem. Check your airtime.
6	Resetting the system	Disconnect and reconnect the power from the SMS Alert. The unit can unfortunately no be defaulted.

Antennas for poor reception:

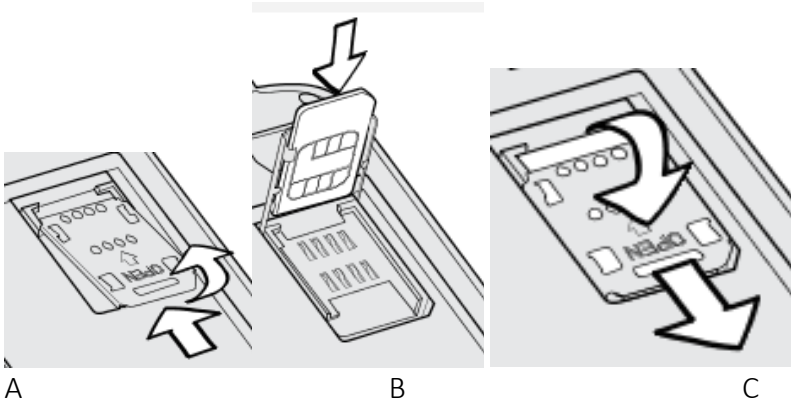**3 meter Antenna** available for external GSM reception, or poor reception

Diagram for GSM Module PC Board (where SIM-card slots in)

Signal strength

STAT
Fast flashing = OK
RED   Slow flashing = No Network

GREEN
Unit on
ON

Checking pin code = RED
Network Registration=YELLOW
GREEN GREEN GREEN

CC10 6
CCVPP 5
CCGND 4

3 CCCLK
2 CCRST
1 CCVDC

Picc_SMD.cam

SMS Alert
PicC Electronics cc v1.8

nr: 2003/043293/23
GAS ALARM.
E ACCIDENTAL SPRAY.

SMS **1234 AIRT** for prepaid airtime balance. Does not report bundle SMS balance. South Africa only.

Inserting the SIM-card on the PC Board

A   B   C

1. A - Push/slide flap in the same direction as the board (about 1- 2 mm).
2. A - The flap will unlock, lift the flap.
3. B - Insert SIM-card.
4. C – Close flap, while pressing it down, slide it back to lock (about 1 – 2 mm).

Installation advice / help

1. You don't have to have an existing alarm panel to connect this unit to; it can function on its own (use SMS Alert 9 if you have an existing alarm panel)
2. External magnetic antennas are available for **better reception.** It may be required where the signal reception is poor, or where the system is installed in a metal container that prevents signal reception.
3. Try to keep the SMS Alert at least **30cm** away from other equipment like **receivers, transformers**, **energisers,** etc., that may cause interference.
4. The SMS Alert should work **outside of SA**, however limited testing was done for this purpose.
5. The SMS Alert is **not built for a specific alarm panel** and may have other applications like pump control and monitoring, cable theft, electric fence monitoring, opening/closing a gate, etc.
6. In very few cases, when SMS commands are **not recognised by the SMS Alert**, check that the user's Text Message settings on his/her cellphone are set to 'Text mode' or 'Full Character Support' (under message options).
7. It is recommended that the SMS Alert be **tested** on a regular basis, for example by sending it a status request (1234 r). This will also cause a transaction that may prevent the SIM-card from expiring if it is seldom used.
8. Always keep the inside of the **SMS Alert box clean**, with the minimum amount of unnecessary wires.
9. Do not apply **excessive force** with tools on the connector terminals to prevent break-offs.
10. To keep your number active, you should send an SMS (1234 r) at least once **every 7 months (Vodacom) or 3 months (MTN),** or as specified by your cellphone service provider.

Support:
1. Additional requests can also be emailed to info@smsalert.co.za.
2. For software/hardware updates, please visit www.smsalert.co.za.
3. **For support, phone us on 083 235 4916.** Please note that your first point of call must be your supplier or installer. If they are unable to help you, we will be more than happy to assist.

YOU ARE REQUIRED TO HAVE A NOTICE BOARD ON YOUR PREMISES THAT INDICATES THE USE OF A PEPPERGAS ALARM.
GREAT CAUTION MUST BE TAKEN WITH THIS PRODUCT – MILK IS ONE RECOMMENDATION TO HELP RELIEVE ACCIDENTAL SPRAY.

and unforeseen costs are incurred. It is recommended to test your SMS Alert on a regular basis. A product of PicC Electronics must be installed by an installer trained by PicC Electronics or with relevant installation experience.

YOU ARE REQUIRED TO HAVE A NOTICE BOARD ON YOUR PREMISES THAT INDICATES THE USE OF A PEPPERGAS ALARM.
GREAT CAUTION MUST BE TAKEN WITH THIS PRODUCT – MILK IS ONE RECOMMENDATION TO HELP RELIEVE ACCIDENTAL SPRAY.

7 Zones

By-pass:
Loop to negative
For Z5, Z6, Z7, Z8
to work when armed

Siren

PIR power
etc

Z8 Z7 Z6 Z5 Z4 Z2 Z1   BYPS SIR- 12V 12V GND GND

Enabled /Ready

ARMED

Sending/ Fault

LOW BAT

BAT 13.5V

AC ON

SIM Card plug in Module

PEP-
PEP+
Acom   Pepper Gas dispenser

Bno
Bcom   Aux Relay – e.g. Radio

Pilot 12V out   +12V out for Pilot LED

Ccom   Optional – other applications

AC 14-18VAC Transformer In

Panic NO

Key Pulse NO

To power Sherlo or other

Sherlo RX2-150 direct interface