



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

SMS ALERT 15 Alarm Plus User Manual



Main features

- 11 Zone Alarm module.
- 15 inputs, reports to 8 users.
- No Relay outputs.
- Additional Power Loss/Restore, Panic, Key and Battery Low inputs.
- Silent listen-in microphone.
- Zones can be switched on and off via SMS, or changed from NC to NO.
- Siren output.
- Silent mode operation without siren activation.
- The first 4 users receive all the SMS'e, and the last 4 users only receive Panic SMS'e.
- Technician mode available.
- No wal-through or test mode available as per SA9 Alarm Plus.



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. Apply 12VDC.
4. SMS **1234 b** from your cellphone 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 1234 b again, you will cancel user B. If you SMS 1234 b again, you will reload user B. (In other words you will toggle it on & off).**
5. The SMS Alert will respond to step 4 by sending its status back to you. Ensure the character "B" appears in the SMS to show user B is loaded. The string means the following:
6. Ensure the unit is armed by pulsing the key input with a positive pulse to receive an Armed SMSe.
7. Trigger Zone 1 – Apply negative to input 1, wait 5 seconds and remove the negative. The green LED will go on for 1 second to indicate that a SMS is being sent and you will receive a SMS Zone 1.
8. The SMS Alert works on a default **negative trigger principle (NO)** but may be changeable.
9. **Jumper setting:** -T sets inputs 1 to 8 to negative trip and +T to positive trip required to send SMSe.

How to program the SMS Alert to report to a 2nd, 3rd & up to 8 cellphones

There are 8 users / recipients / positions e.g. B,C,D etc.

The first 4 users receives all the SMS's e.g. Zones, arm, disarm, power loss/restore, panic etc.

The last 4 users (F, G, H, I) only receives the Panic SMS.

B---- ----- V10.5 Disarmed

There are 8 users (recipients): B,C,D,E,F,G,H,I. 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.

1234 t (Technician mode) (unfortunately this replaced the walk-through test function as with the SA9 Plus Alarm)

This will load the cellphone number from where this SMS is sent as the **Technician**. Only this number is now loaded for testing/reporting so that not all the users receive SMSe. To disable/toggle off this mode SMS **1234 t** again.

New function to add cellphone numbers: - Not for international use

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.

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.

Other Commands

1234 s	To recall NO and NC settings.
1234 v	To recall general settings.
1234 46	For use outside of SA, consult manufacturer.

SMS Arm/Disarm

1. When the system is armed/disarmed via the key input, the first 4 users will get the arm/disarm message.
2. When armed/disarmed from your cellphone, only the sender will get a return SMS. You don't need to be any of the 4 users to be able to arm/disarm the system. Therefore the user may want to change 1234 by sending **1234 CODE**.
3. **1234 r** can also be sent at any time from any phone to check if the system is armed / disarmed.
4. Send the following SMS commands from a cellphone:

1234 c on	Arm the system; the siren will beep once (1).
1234 c off	Disarm the system; the siren will beep twice (2).
or	
1234 b on	Silent arm the system, the siren will not make a noise. If an alarm occurs, only an SMS will be sent.
1234 b off	Silent disarm, the siren will not make a noise.

5. The last method used in point 4 will determine if the **key input** will let the siren go off or not, this includes the panic button.
6. Note to prevent confusion:
 - a. The b and c used in b on/off and c on/off is not related to users b or c. However if b and c are send without the on/off i.e. **1234 b**, then the users will be deleted or added depending on if that position was empty or not.
 - b. *** User b must always be on the system (yellow light on) otherwise the system won't send any SMS's at all.

Power Loss/Restore

If you are away and unsure if the ESKOM power is on /off, then **1234 r** can be sent. The return SMS will contain the number 12. If 12 is shown, then the power is ON, otherwise the power is OFF. This is because channel 12 is used to monitor the ESKOM power.



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**.

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.

An app for iPhones is being developed.

Disable all SMS'e on the system

Should for whatever reason you wish to stop all SMS'e being sent from the system, then **SMS 1234 b** to the system. This will cancel user b, if loaded. Reloading user b will return it back to normal.

Other Commands		
1234		Checks airtime balance – general – SA use only. If you are in a different country and you want to send <u>*1245*01#</u> then use <u>1234 AIRT*1245*01#</u> The standard/automatic 1234 AIRT is then ignored.
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	1234	Changes the code 1234 for all SMS Alert settings. Will not affect 1234 AIRT, TC1, TC0, VER. Ver 10.6 – Now only applicable to relay commands e.g. operating relays.

Use **UPPER CASE** only with the following 4 commands:

1234 TC1 (terminate call),

1234 TC0

1234 AIRT (checking airtime)

1234 CODE

Loading & checking airtime balance

Service Provider	Function	SMS to be sent to SMS Alert
MTN	Load Voucher	1234 AIRT*141*voucher#
Vodacom	Load Voucher	1234 AIRT*100*01*voucher#
Cell C	Load Voucher	1234 AIRT*102*voucher#
Virgin	Load Voucher	1234 AIRT*102*voucher#
Vodacom	Check Bundle SMS balance	1234 AIRT*111*502#
Vodacom	Transfer airtime from one cellphone to another	Register or log in to My Vodacom, or dial *111# and select "Airtime Transfer".

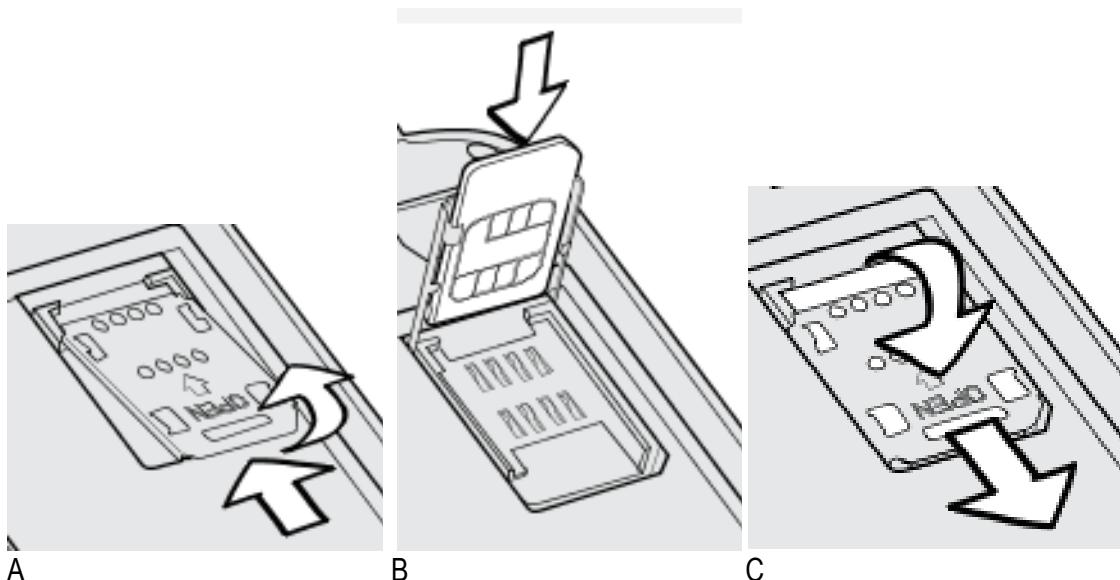
MTN	Transfer airtime from one cellphone to another	Dial *141*6328*, insert the recipient's cellphone number, *, insert the rand amount, # and press call. For example, *141*6328*0831234567# press call.
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Airtime on prepaid SIM-cards can also be checked 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.

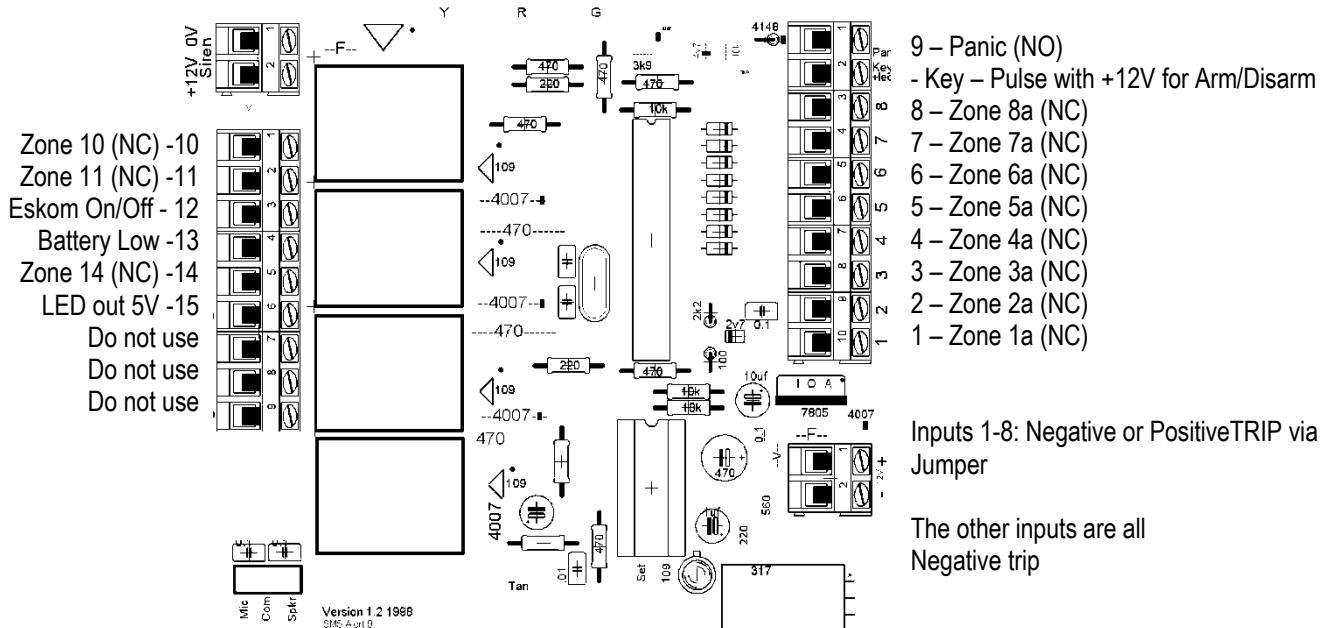
****Disconnect the power from the SMS Alert when the SIM-card is removed.**

How to insert the SIM-card



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).

SMS Alert PCB top view



SMS Arm/Disarm method: **1234 c on** or **1234 c off**

SMS Arm/Disarm method: **1234 b on** or **1234 b off** (Silent Arm / Disarm mode)

Technical Specifications

1	Power supply	9 - 14VDC volt DC, 500mA (millamps). An in-line batter is preferred for smooth power. The 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 10 users, B to K.
4	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. Inputs are buffered control for simultaneous triggering. Key input – Always positive.
6	Jumper setting:	–T sets inputs 1 to 8 to negative trip and +T to positive trip required to send SMSe.

Individual Zones on/off via SMS (Version 10.4 upwards)

1234 01-08 : Toggle inputs 1 to 8 between NC, or being OFF (Disabled)

1234 11-15 : Toggle inputs 11 to 15 between NC, or being OFF (Disabled)
(Indicated by **a** in the **1234 s** return SMS)

1234 21-28: Toggle inputs 1 to 8 between NO, or being OFF (Disabled)

1234 31-35: Toggle inputs 11 to 15 between NO, or being OFF (Disabled)
(Indicated by **b** in **1234 s** return SMS)

The above commands have already been used to configure your SMS Alert.



Refer to the following table if you want to switch zones on/off.

E.g. to switch Zone 12 off, SMS **1234 10**.

Input	SMS	Description	Other
1	1234 01	Will turn off Zone 1 (Input 8), send again to toggle back on	
2	1234 02	Same for Zone 2 and the rest below	
3	1234 03	Zone 3	
4	1234 04	Zone 4	
5	1234 05	Zone 5	
6	1234 06	Zone 6	
7	1234 07	Zone 7	
8	1234 08	Zone 8	
Not counted	n/a	*Key	
9	1234 11	Panic	24H
On the other side of the PC board			
10	1234 12	Zone 10	
11	1234 13	Zone 11	
12	1234 14 and/or 1234 34	Eskom Off Eskom ON	24H
13	1234 35	Battery low	24H
14	1234 16	Zone 14	
15	n/a	LED out for Arm/Disarm indication (5V)	

*The Key input cannot be toggled on or off.

Which inputs are on and off, or in other words NO or NC, or both

Send 1234 s

For example, the following SMS will mean:

"1a 2a 3a 4a 5a 6a 7a 8a 9b 10a 11a 12D 13b 14a 15a Settings"

a = NC

b = NO

D = Dual trip input, trips on NO and NC

For example:

12D = This is input 12 configured as dual trip because it sends ESKOM ON and ESKOM OFF.

1a = This is input 1 configured as NC trip because it sends Zone 1 (Zone 1 is ON).

1- = Zone 1 is OFF.



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 behavior	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.
7	System not responding to SMS's	The master or standard CODE might be scrambled due to a power spike or 'user forgot' issue. The manufacturer can reset this code remotely.

Installation advice / help

1. Do not connect the power of the SMS Alert to an **auxiliary 12V power output**. It is best to connect the SMS Alert **directly to, and within 1 meter from the 12V battery** where the power is best regulated.
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. It is strongly recommended that **Mylar cable** (shielded with foil) is used for **Electric Fence** applications. Both the power and inputs on the SMS Alert must use Mylar cable. Without this cable the SMS Alert might seem to work fine, but problems may be experienced 2 weeks later. Also ensure **high voltage wires** do not cross the SMS Alert wires.
5. The SMS Alert should work **outside of SA**, however limited testing was done for this purpose.
6. 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.
7. 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).
8. 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.
9. Always keep the inside of the **SMS Alert box clean**, with the minimum amount of unnecessary wires.
10. Do not apply **excessive force** with tools on the connector terminals to prevent break-offs.
11. 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.



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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.

Disclaimer:

PicC Electronics will not be held responsible for loss, damage or injury to any persons, company or legal entity using PicC Electronics products or for GSM Network changes or reliability. There is no guarantee that SMS's will always go through. It is recommended that a prepaid SIM-card is used, or that a process is in place to cancel or stop the SIM-card, or to limit SMS's - should a malfunction occur where many SMS's are sent 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.