

# SMS COMMANDER QUICK START GUIDE

11.	<b>BATT BELOW &lt;x&gt;</b>	If battery voltage goes below x	Administrator
12.	<b>SIGNAL BELOW &lt;x&gt;</b>	If signal strength goes below x percent	Administrator
13.	<b>AIRTIME BELOW &lt;x&gt;</b> (airtime checking must be enabled)	If remaining prepaid airtime credit goes below x	Administrator
14.	<b>POWER FAIL</b>	If mains power failure is detected	Administrator
15.	<b>POWER RESTORED</b>	If mains power is restored	Administrator

## Action Conditions

	Command	Effect	Allowed
1.	<b>OUTPUT ON</b>	Activate out	Administrator
2.	<b>OUTPUT ON &lt;x&gt; SEC</b>	Activate output for x seconds	Administrator
3.	<b>OUTPUT ON &lt;x&gt; MIN</b>	Activate output for x minutes	Administrator
4.	<b>OUTPUT OFF</b>	Deactivate output	Administrator
5.	<b>OUTPUT TOGGLE</b>	Change current state of output	Administrator
6.	<b>MAKE &lt;x&gt; CALLS TO "&lt;number&gt;"</b>	Make x amount of calls to number (Number will automatically be added if not in list)	Administrator
7.	<b>SEND "&lt;text&gt;" TO "&lt;number&gt;"</b> (max characters = 16)	Send specific message to number (Number will automatically be added if not in list)	Administrator
8.	<b>SEND "&lt;text&gt;" TO ALL</b> (max characters = 16)	Send specific message to all	Administrator
9.	<b>ANSWER</b> (should be used with "RECEIVE CALL" trigger)	Answer an incoming voice call.	Administrator

\*Note: > If no administrator set, anyone can issue these commands

## Example

### > BEHAVE 1 INPUT ON 5 SEC SEND "ALARM TRIGGERED" TO ALL

The above SMS command will configure behaviour statement number 1 which will SMS the text message ALARM TRIGGERED to ALL listed numbers every time the input goes active and remains active for 5 seconds.

## SIM Card

### Before you install your SIM Card:





- > Install the SIM card into a normal cellular phone
- > Verify that there is **no SIM PIN** enabled (The phone must not ask for a PIN when switched on with this SIM card inside) If the phone does request a PIN, you need to enter the correct pin so that the phone can start, and then disable the SIM Card PIN. See your cellphone documentation on how this can be done.
- > Verify that you are able to **send an SMS** message.

The SMS Commander can ONLY check the airtime of a **PREPAID** SIM card.





## Status LEDs

The SMS Commander has 4 LEDs to show the current status of the product. The green LED, labeled "STATUS", shows the current status of the product as a whole, while the other 3 red LEDs labeled "AIRTIME", "SIGNAL" and "GSM" show the airtime, signal and GSM status respectively.

### GREEN LED (STATUS)

- > on for 1500ms and off for 1500ms (very slow flash)  
 : Busy Booting
- > on for 500ms, off for 500ms (slow flash)  
 : All OK
- > on for 50ms, off for 450ms (intermittent flash)  
 : Busy sending SMS/Voice Call
- > on for 100ms, off for 100ms (very fast flash)  
 : Problem with boot sequence

### RED LED (GSM)

- > on for 75ms and off for 3000ms (intermittent flash)  
 : IDLE mode
- > on for 600ms, off for 600ms (slow flash)  
 : Limited network service
- > constantly on  
 : Busy with voice call
- > constantly off  
 : No response from GSM Module

## Testing the SMS Commander

The SMS Commander (even with a blank configuration) has a built-in test feature. If the product receives "TEST GSMC" as an SMS message, it will reply to the number that sent the message, with its current status concerning signal strength, airtime balance (only if enabled), output state, input state, mains power state and battery voltage. (Battery Voltage – Ignore if no battery connected)

## CONFIGURATION

### Administrative Commands

Command	Effect	Allowed
1. SETADM	Set the number of the sender as the administrator if no administrator is set	Anyone (if no admin set)
2. CLRADM	Clear the current administrator	Administrator
3. WHOADM?	Replies with the administrator number	Anyone
4. SETDEFAULT	Restore to factory settings	Administrator
5. BEHAVE <X> CLEAR	Clears behaviour statement number X	Administrator
6. CLEARSTATEMENTS	Clears all behaviour statements	Administrator
7. CLEARNUMBERS	Clears all numbers in the list	Administrator
8. REPLY ON	Turn on sms command confirmation notifications	Administrator
9. REPLY OFF	Turn off sms command confirmation notifications	Administrator
10. AIRTIME *141#	Turn on airtime checking	Administrator
11. AIRTIME OFF	Turn off airtime checking	Administrator

\*Note: > If no administrator set, anyone can issue these commands

### Number Management

Command	Effect	Allowed
1. ADDN 0821234567 or ADDN +27821234567	Place given number in next open slot in listed numbers	Administrator

2. REMN 0821234567 or REM +27821234567	Remove given number from listed numbers	Administrator
---	---	---------------

\*Note: > Maximum of 16 numbers can be listed (including administrator)  
> If no administrator set, anyone can add or remove numbers

## TRIGGER-ACTION BEHAVIOUR STATEMENTS

The SMS Commander is configured by defining a number of behaviour statements. Each statement takes the form of an TRIGGER-ACTION pair as follows:

**BEHAVE <x> <TRIGGER> <ACTION>**

You are thus able to select certain trigger conditions that will cause desired actions to be performed. Any combination of TRIGGER and ACTION conditions can be assembled into complete statements using SMS commands (See Example on last page). The SMS Commander can accept up to 8 separate behaviour statements.

### Trigger Conditions

Command	Effect	Allowed
1. INPUT ON	As soon as input goes active	Administrator
2. INPUT ON <x> SEC	If input goes active and remains active for x seconds	Administrator
3. INPUT ON <x> MIN	If input goes active and remains active for x minutes	Administrator
4. INPUT OFF	As soon as input goes inactive	Administrator
5. INPUT OFF <x> SEC	If input goes inactive and remains inactive for x seconds	Administrator
6. INPUT OFF <x> MIN	If input goes inactive and remains inactive for x minutes	Administrator
7. INPUT TOGGLE	As soon as input changes state	Administrator
8. RECEIVE CALL	If voice call is received from any listed number	Administrator
9. RECEIVE MSG	If any text message is received from any listed number	Administrator
10. RECEIVE MSG "<text>" (max characters = 16)	If a specific text message is received from any listed number (specified message must be in quotation marks)	Administrator