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IP & SMS Alarm Communicator Quick Start Guide

Thank you for purchasing a Watchguard[™] IP & SMS Alarm Communicator

This Quick Start Guide covers basic setup, installation and use of your communicator.

The WGSMSC is an IP and SMS alarm communicator with battery backup. It is compatible with most contact ID alarm panels. The communicator is able to send contact ID alarm events via SMS over the mobile network to up to 5 mobile devices. It can simultaneously communicate via IP (3G, 4G, Ethernet) to a compatible monitoring centre. Separately, the WGSMSC also supports PSTN pass-through.

Included Components
1 x WGSMSC Alarm Communicator Module
1 x 4G antenna
1 x USB cable
1 x DC adapter
1 x CD-ROM with configuration software

1.1 Usage Overview

This section covers how to set up the WGSMSC for use as an SMS alarm communicator. In this configuration, the communicator can notify up to 5 users via SMS for events such as alarm activation and power loss. This turns your alarm into a self monitored alarm system that can be used inline with your monitoring service.

In this section, learn how to connect and configure your communicator via PC, set up which mobile numbers the communicator contacts, alarm events and messages sent in response and how to connect the communicator to the alarm panel.

1.2 Installation Requirements

Before installation, ensure the following are accounted for:

- One installed and active alarm panel (Watchguard[™] WGAP864 recommended)
- One PC / laptop for communicator configuration via USB
- One active SIM card for SMS communication
- Mobile network connection

1.3 Product Diagram



Fig. 1.3.1: WGSMSC diagram & connections

1.4 Configuration via PC

The WGSMSC is primarily configured via PC-USB connection with the included configuration software. The communicator can also be re-configured to an extent by SMS commands after initial setup is complete.

GSM GPRS CID Converter ConfiguratorKS	SV1.1	About Evit	_	_	_	-	_	_	_		_ 🛛
Loading Profile Save Profile Recovery Factory Default About Exit Model: Module IMEI: Com Port: COM1 M Open Com Version: Read Version Info											
Basic Information SMS Message GPRS Debug Read Settings Save Settings											
*Please Contact you GSM Operator to get the	Alar Tel No 1	rm Numbers	Alarm	Supervisio	n Trouble	Open	Bypass	Test G	PRS Fail	DC Loss	^
GPRS Parameters APN:	Tel No.2:										
User Name:	Tel No.3:										
User Password:	Tel No.5:										
	*Tick it sta	ands for will send (SMS to y	ou once t	he event (occurre	nce				
K5 Password: 1234 Output Name.e.g.Arm/Disarm. Output Name.e.g.Arm/Disarm. "4 digits only.Default is 1234 Output Name 1: Account Number: Output Name 2: "Must be set to replace the alam host Account Number, if not set.continue to use the alam host Account Number, Simocard PIN Code: Protocol Type: Simocard PIN Code: "If disabled PIN Code: "If estable does not not be also the set to replace the religits											
Output1 Pulse Time		Subnet Mask).0.	0.0						~

Fig. 1.4.1: WGSMSC Configuration Software - Basic Information Tab

1.4.1 Connecting the WGSMSC to the PC

- 1. Power on the WGSMSC with the included adapter and connect it to the PC via the included USB cable.
- 2. Insert the included CD-ROM and copy **GSM 3G 4G Ethernet CommunicatorK5SV1.1.exe** from the .zip onto the PC.
- 3. Launch the program. It will open to the **Basic Information tab** by default.
- 4. At the top right of the configuration software, select a Com Port (eg. COM1) and press "Open Com" to confirm.

1.4.2 Password Settings

- 1. Change the default SMS password, under "K5 Password". For future reference, write down this password in the provided box, as it is necessary for configuration via SMS.
- 2. If the SIM card being used for your WGSMSC has a PIN security code, enter that under "Simcard PIN Code".
- 3. Account Number isn't important for now and can be left as it is.

Com Port:	COM1 💌	open com
Status:		

K5 Password:	4321	
*4 digits only,Default is 1;	234	
Account Number:		
*Must be set to 4 bits,if set to if not set,continue to u	o replace the alarm host A use the alarm host Accour	ccount Number, it Number
Simcard PIN Code:	111	
*if disabled PIN Code,the	en no need to enter digits	

1.4 Configuration via PC (continued)

1.4.3 Mobile Alarm Settings

Alarm Numbers	Alarm	Supervisio	n Trouble	Open	Bypass	Test (GPRS Fail	DC Loss
Tel No.1: 0491 570 156								✓
Tel No.2: 0491 570 157								
Tel No.3: 0491 570 158								
Tel No.4:								
Tel No.5:								
*Tick it stands for will send SMS to you once the event occurrence								

- 1. Add up to 5 mobile numbers to contact. These are the numbers that will receive SMS messages when the selected alarm events are activated.
- 2. Check the notification events that you wish to be alerted of via SMS (*Refer to Fig. 1.2.4.*). Alarm and DC Loss are recommended.
- 3. Save all changes with the "Save Settings" button.

Alarm Event	Situation
Alarm	
Supervision	
Trouble	Contact ID Protocol Events Codes
Open	Contact ID Protocol Events Codes
Bypass	
Test	
GPRS Fail	GPRS message transmission failure
DC Loss	External DC power lost

Fig. 1.4.2: Alarm Events

1.4.4 SMS Message Settings

Now that mobile numbers and alarm events have been configured, SMS messages can be configured to send messages correspoding to alarm partitions/zones.

- 1. After saving all changes, select the "SMS Message" tab.
- 2. Enter each alarm partition and zone to be used for SMS alerts.
- 3. Enter appropriate names for each alarm zone. These names are used in SMS alert messages if no name is entered, the message will be in illegible code. (*Pictured example: SMS alerts for 8 different alarm zones in the same partition, with each area and sensor type covered.*)
- 4. Save all changes with the "Save Settings" button.

SN	Partition	Zone	SMS Text Message(max.59)
00	1	01	Entrance - Front Door
01	1	02	Entrance - PIR
02	1	03	Hallway - PIR
03	1	04	Kitchen - Smoke Detector
04	1	05	Kitchen - Glass Break
05	1	06	Back - Back Door
06	1	07	Back - PIR
07	1	08	Yard - PIR

1.5 Alarm Panel Connnection

Now that the communicator has been fully configured, it's ready to be connected to the alarm panel. For this section, the Watchguard[™] Professional 8 Zone Alarm Panel (WGAP864) will be used as an example.

- 1. Unplug the communicator from the PC, then unscrew and open the alarm panel.
- 2. Insert the SIM card into the SIM slot.
- 3. Connect the communicator in-line with your alarm panel (refer to Fig. 1.4.4).
- 4. For testing purposes, if you have a monitoring centre, do NOT connect the RJ11 cable yet.
- 5. Attach the included external antenna to the ANT socket of the communicator.
- 6. Connect the communicator to a 9~36VDC power supply to turn it on.



Fig. 1.5.1: WGAP864 Alarm Connection Example

1.6 Testing

The communicator will now be tested to ensure it powers on correctly, GSM connection is established, alarm events are functioning properly and SMS messages are being received.

- 1. Confirm the power light is turned on.
 - a. Steady on Unit is on and internal battery is charged
 - b. Flashing 1s Unit is on and battery is charging
 - c. Off No power connected and battery isn't providing power
- 2. Confirm the GSM indicator moves from 0.5s flashing (registering to network) to 1s flashing (connection to network). If it is not, ensure the following:
 - a. The SIM card has been properly inserted.
 - b. The inserted SIM card is activated.
 - c. The GSM antenna is properly connected and within range.
- 4. Confirm the alarm communicator is functional by testing an alarm event. The communicator should not be connected to the landline for this step, or it could send a false alarm to your monitoring station.
 - a. Arm your alarm.
 - b. Trigger a known zone.
 - c. Wait to receive an SMS notification to your programmed phone(s) (This may take up to 1 minute depending on telephone carrier and signal strength Ensure the mobile phone also has adequate reception to receive SMS).
 - d. Once you've successfully received the SMS message, if you require use of landline for connection to monitoring centre, connect it to the communicator via Landline RJ11 port.

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	🕀 🔊 🗊 📶 🛑 3:52 PM
🖌 < 🔚 WGSMSC Ala	rm
04/04/20	018 Wed
Zone 01 - Entrance - - ALARM ACTIVATED	Front Door 3:33PM

2. Using the WGSMSC as a Contact ID (Ethernet/3G/4G) Communicator

2.1 Usage Overview

The WGSMSC can also be used as a Contact ID to IP communicator, establishing a connection to your monitoring station via Ethernet, 3G and/or 4G connection. This is useful for buildings that have adopted NBN and those that no longer have access to a direct phone line connection.

1.2 Monitoring Station Requirements

To use the WGSMSC communicator with a monitoring station, the monitoring station must have support for SIA DC09 protocol support.

For details on how to connect your WGSMSC for monitoring stations, and for assistance in finding compatible monitoring stations, call us at +61 2 45452598

3.1 SMS Command Overview

SMS commands can be sent to the SIM card of the WGSMSC for remote configuration. *Note: Using the PC configuration software is always recommended, when possible.*

- All SMS commands must be fully CAPITALISED.
- Examples and Return SMS Message are for reference only; these will vary according to your own configurator setup.
- Password below is the default password (1234), replace this with the password you set in 1.4.2 Basic Information Settings.

3.1.1 SMS Command Error

This error shows up when an invalid SMS format is sent. Double-check your password and command and try again.

SMS Command	Return SMS Message
-	SMS Format Error, Please check Caps Lock in Command!

3.1.2 Change Password

This code changes the communicator's SMS password.

SMS Command	Return SMS Message
[CURRENT PASSWORD]+P+[NEW PASSWORD] Example: 1234P4321	4321, This is the New Password, please remember it carefully.

3.1.3 Device Information

Refer to communicator specifications, current version, etc.

SMS Command	Return SMS Message
	Model: WGSMSC
[PASSWORD]+EE	Version: V 1.00 2018-04
Example: 1234EE	IMEI: 867965029050313
	GSM Signal Value: 30

3.1.4 SMS Notification Numbers

Program the 5 mobile numbers for SMS notification

Action	SMS Command	Return SMS Message
Set mobile phone numbers	[PASSWORD]+A+[SERIAL#]+T+[PHONE#] Example: 1234A3T13570810254	Tel1: Tel2: Tel3: 13570810254 Tel4: Tel5:
List all numbers	[PASSWORD]+A Example: 1234A	Tel1: [PHONE#] Tel2: [PHONE#] Tel3: [PHONE#] Tel4: [PHONE#] Tel5: [PHONE#]
Delete existing number	[PASSWORD]+A+[SERIAL#] Example: 1234A3	Tel1: [PHONE#] Tel2: [PHONE#] Tel3: Tel4: [PHONE#] Tel5: [PHONE#]

3.1.5 Program OC Outputs

Program alarm system OC outputs.

Note: Except for pulse output time, multiple serial numbers can be configured at once. Eg. 12 means 1st output and 2nd output.

Action	SMS Command	Return SMS Message
Set the name of the OC outputs	[PASSWORD]+DO+[SERIAL#]+T+[NAME] Example: 1234D01TOutput 1 for Arm.	DO1: rename: Output 1 for Arm.
Check all OC outputs	[PASSWORD]+DO+[SERIAL#] Example: 1234DO1	DO1: Output 1 for Arm.
Delete existing OC output	[PASSWORD]+DO+[SERIAL#]+DEL Example: 1234DO1DEL	DO1: Output 1 for Arm.
Switch relay on	[PASSWORD]+DOC+[SERIAL#] Example: 1234DOC12	DO1: ON DO2: ON
Switch relay off	[PASSWORD]+DOO+[SERIAL#]+DEL Example: 1234DOO12	DO1: OFF DO2: OFF
Check current status	[PASSWORD]+DOE Example: 1234DOE	DO1: ON/OFF DO2: ON/OFF
Set pulse output time	[PASSWORD]+DOP+[SERIAL#]+[PULSETIME] Example: 1234DOP130 (Time is in seconds, max. 9999s)	DO1 Pulse Output Time: 30S
Check pulse output time	[PASSWORD]+DOT+[SERIAL#] Example: 1234DOT1	DO1 Pulse Output Time: 30S
Pulse output control	[PASSWORD]+DOP+[SERIAL#] Example: 1234DOT1	

3.1.6 Program GPRS IP Server & Port

Note: Only the 1st server IP can be programmed via SMS commands. Program the 2nd server IP via PC configurator.

Action	SMS Command	Return SMS Message
IP settings	[PASSWORD]+IP+[IP ADDRESS]+P+[PORT#] Example: 1234IP183.12.162.70P4005	
Check IP settings	[PASSWORD]+IP Example: 1234IP	Server: 182.12.162.70 Port: 4005
Delete existing IP settings	[PASSWORD]+IPDEL Example: 1234IPDEL	

3.1.7 GPRS Data Settings

Action	SMS Command	Return SMS Message	
GPRS settings	[PASSWORD]+AP;[APN];[USERNAME];[IP P/W]# Example: 1234APeverywhere;esecure;password#		
Check GPRS settings	[PASSWORD]+AP Example: 1234AP	APN: everywhere User Name: esecure	
Delete existing GPRS settings	[PASSWORD]+APDEL Example: 1234APDEL	rassworu: passworu	

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