

# Burglar Alarm System Manual

## Model: BAS-G



Make sure you get a printed Index made from the installer & paste the same behind Keyboard panel.

We extend a warm welcome to you on becoming a part of the Copper Connections family. Our service support Engineers shall be working hard through our channel partners to ensure your satisfaction with the product and after sales services. We welcome your feedback / query at [service@copperconnections.com](mailto:service@copperconnections.com)

### Contents

- Features
- Installation
- Power On Procedure
- Front Panel LED Indications
- Sound Indications
- Display explanations
- Always ARMED Sensors
- Arm
- ARM Bypass
- ARM / DISARM Confirmation Sounds control
- Auto Arm / Disarm Time + Holidays
- Battery Mode - Power Switch Off in CMS (Central Monitoring Station)
- Date / Time Setting
- Disarm
- Delay to ARM
- Panic Key
- Panic Key – Silent
- Passwords
- Password Operation On / Off
- Record of History
- Remote monitoring through Telephone line
- Remote monitoring during intrusion
- Resetting to Factory Settings
- Resetting SIM
- SIM Alarm Enable/ Disable
- SIM Balance Checking
- Siren Hooting time
- Siren ON or OFF
- Signal Repeater – Wireless
- Signal Strength Test of GSM

SMS Text & Android Application for various programming  
Telephone Numbers Entry & SMS Controls  
Telephone Number Redial Times  
Telephone Number Display - ON / OFF  
Voice Message Recording for playing on Telephone calls during Intrusion - Optional  
Wireless Sensors, Remotes & Panic Keys Registering/Deletion  
Wireless Sensor – Operating Mode  
Wired Zones – Operating Mode  
Wired Zones Programmable Delay  
Wired Zones Sensing Delay  
Precautions  
Trouble Shooting  
Technical Specifications  
Terms of Warranty  
Index of - Wireless Sensor Numbers & their corresponding Names

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- Product specifications and features are subject to changes without prior notice due to our constant endeavor to improve the product.

## Features

### **Auto Detect Open Door**

When the system is being ARMED, if any door having Magnetic Switch (Wired or Wireless) is open, the system will alert the user with a intermittent Siren Sound. The same is true for all wired sensors.

During this time, if the Opened Sensor or the opened Wired Zone is closed, the system will get ARMED and the intermittent Siren sound will stop.

The main Panel display in this case is explained under the heading “Display explanations” – sub heading “while Arming the system”.

### **Always Armed Zones**

Some sensors can be configured to work 24 Hours. Whether the system is ARMED or not, these sensors would initiate Siren hooting and Telephone dialing.

For example, a heat detector can be placed near Generator so that whenever generator heats due to a fault, the siren would alert the user & also inform on his Cell number.

For further details refer the heading “Wireless Sensor – Operating Mode” and “Wired Sensor – Operating Mode”

### **Auto ARM / DISARM - Day Wise**

System can be programmed to ARM / DISARM at 3 different sets of timings for each day of the week. User can also enter up to 10 Holidays in the system. On those days the system continues in the previous day's status

Example: If the user has off days on Saturday and Sunday then the system can be programmed to remain ARMED on these 2 days. And for rest of the week the system will ARM & DISARM at the set time. For further details refer the heading “Auto Arm / Disarm Time”

### **ARM Bypass**

User has option to ARM all the Zones or selected Zones. This helps in ARMING the system while servants are present in some part of the building. For further details refer the heading “ARM Bypass”

### **Auto Dialer** (Dialing through GSM SIM during intrusion)

The system dials up to 6 Telephone numbers and plays siren sound (pre-recorded message-Optional), during intrusion. After 10 secs of Siren Sound, it plays the message “Batt low, Wired Zone Open, Wireless Sensor Number, etc”

Each Telephone number can be programmed to dial from 1 to 15 times.

For further details refer the headings “Telephone Numbers Entry” + “Telephone Number Redial Times” + “Telephone Number Display - ON / OFF”

**Battery (Rechargeable)** In-built Li rechargeable batteries for backup lasting up to 15 hours. Can be extended by connecting optional BAS-PS (Power Supply with 12V 7AH Maintenance Free Battery).

### **Battery Low warning – of Main Unit**

When the in-built Batteries of the Main Unit goes low & the SYSTEM is in ARMED condition, it will dial the pre-fed Telephone number to inform the user with a Voice Message “Battery is Low”. It is possible to Listen-in and Disarm the system through Telephone.

In case the system is DISARMED then display will show “Main Batt is low” & it will give a beep every 15 seconds. In this condition, the display back light keeps getting ON for 10 secs and then OFF for 10 secs.

Note: When Battery goes low and the system is ARMED, intrusion will not work.

### **Battery Low warning – of Wireless Magnetic / Vibration Sensors (MSW, VSW, VSW-T, PIRW, PIRW-T)**

When the cell of any of the wireless Magnetic / Vibration Sensors goes low & the system is in ARMED condition, it will dial the pre-fed Telephone number to inform the user with a Voice Message “Battery is Low + ID Number”.

The user can Disarm the system & can also Listen-in.

When a new Cell is restored in the Sensor, the system registers that the sensor is now operative.

When the cell of any of the wireless Magnetic / Vibration Sensors goes low & the system is in DISARMED condition, the display gives a message and the display back light keeps getting ON for 10 secs and then OFF for 10 secs. During this condition, the system also gives a mild beep every 15 seconds.

**Note:** However, SMS message is not to be relied upon and low battery LED indication on the sensor should be checked periodically.

### **Capacity: Can connect to 75 Wireless Sensors**

**: Has 8 Wired zones & each Zone can connect to unlimited Wired Sensors**

The system can work with up to 75 Wireless Sensors (including Wireless Remotes & Signal Repeaters) and any number of Wired Sensors as long as the total resistance of the Sensors and the wires is less than 200 Ohms.

### **CMS (Central Monitoring Station) Services**

With this feature, all or selected events are logged with a Central Monitoring Station maintained by the Copper Connections Pvt Ltd. In the event of any intrusion, the attendant at CMS will take necessary action (as desired by the user). Also in the event of battery of the Main Unit or compatible wireless sensors going low, the CMS get notified and reminds the user. The CMS can also keep the record of events related to ARMING and DISARMING of the system. This facility can be availed from Copper Connections Pvt Ltd on annual charges basis.

### **Display of the Zone / Sensor during intrusion** in order to identify the area of intrusion.

The system displays the Wired Zone Number / Wireless Sensor number that is open.

For further details, refer the heading "Display explanations" – sub heading "During Intrusion"

Note: The system also informs the user through Telephone line, the Wireless Sensor number that has activated.

Refer "Voice Messages" heading given below.

### **Electrical Lights ON during Intrusion** (Optional)

Selected Light load (not exceeding 200Watts) can be connected to it which gets ON whenever there is an intrusion.

### **Listen-In / Talk-In**

User can make a Telephone call from anywhere and listen to the noise near the System or can even talk through the main unit. The same is true in case of intrusion as well.

### **Multilevel Passwords**

The system has 1 Master & 5 User Passwords

Master Password can do all operations and programming as well. User level Passwords can only ARM or DISARM the system. The History records would show which Password had ARMED / DISARMED the system.

### **Remote Monitoring** – Whenever user wants or during Intrusion.

User can make a Telephone call from anywhere and perform the following:

Listen to the voices near the equipment or talk through it.

ARM or DISARM the system.

Set Siren ON / OFF

Listen to the Wired Zone / Wireless Sensors that are open

The same can be done during Intrusion.

For further details, refer the heading "Remote monitoring through Telephone line" & "Remote monitoring during Intrusion"

### **Record of History of last 100 events** with date & time stamping, to check the history of various operations.

For further details, refer the heading "Record of History"

### **Siren - Built in**

One Siren comes built into the system with option to connect an external Siren.

More than one External Sirens can be provided by using "BAS-PS" power supply.

Refer the main heading = Installation & sub heading = *Connector* "Siren" for External Siren

To disable the Siren sound during Intrusion, refer the heading "Siren ON or OFF"

### **Signal Strength Display of GSM**

User can check the strength of GSM signals received at the location where the system is installed. This helps in locating suitable place of installation. Moreover, the system cannot be ARMED when the signal strength is below level 15.

### **Signal Repeaters** (Optional)

They are used for increasing the operating distance of Wireless Sensors from the Main Unit. It doesn't increase the range of Wireless Flashing Siren. For further details, refer the heading "Signal Repeater – Wireless"

### **Silent Panic**

User has the option to press "Panic" or "Silent Panic" keys from Remote / Main Unit. In case of "Panic", the system activates the Siren as well as dial out on Tel Line. In case of Silent PANIC, the system only dials out on Tel Line.

### **Silent ARM**

When the System is ARMED from the main unit, there is no Key Tone / Voice command. This helps the user to ARM the system without drawing unwanted attention.

### **SIM Absent Alarm**

When the system is switched ON it checks for the presence of SIM card. If SIM card is not present, the system will give appropriate message for the same and beeps will long intervals. In this condition the user cannot ARM the system.

### **SIM Balance Checking & various Programming through SMS**

#### **From Main Panel**

Press 0 # - Enter the Balance Enquiry Codes of Service Provider (\*123# in case of Airtel) – Press #.  
Balance amount will be displayed.

Press "Quick Exit" to exit.

### **Through SMS**

Through registered Mobile Numbers, user can send SMS to the SIM installed in BAS and get Reply with balance. Similarly various Programming can be done through SMS with Password. Refer heading "SMS Text for various programming"

### **Tamper Alert Main Unit**

The main unit has in built tamper switch.

Whether the system is ARMED or DISARMED, if the main unit is removed from its bracket, the system will consider it to be an intrusion. It will sound the siren & dial out the telephone numbers.

Whenever the system is hanged on the wall bracket, it is registered. Thereafter, when the system is removed from the bracket it senses it as intrusion. In case, it is not hanged on the bracket then it does not consider it.

### **Tamper Alert in case of Vibration Sensors (VSW-T) / PIR Sensors (PIRW-T)**

If VSW-T / PIRW-T are installed with the system, it will alert the user in case of Tampering of these sensors, as explained below.

Whenever VSW-T or PIRW-T are Tampered, the system will dial out and give intrusion message with ID of the Sensor. If the system was DISARMED at the time of Tamper, it will give mild beeps from the main unit. In case system was ARMED at the time of Tamper, it will sound siren as in case of Intrusion.

### **Traitor Alert**

One or all Wired Zone or Wireless Sensors can be configured for "Traitor Alert" feature. Whenever any of these Sensors is open in DISARM mode, the system will give mild beeps thereby alerting to the user about the doors (used by servants, Maids etc) being open. The mild beep doesn't disturb the user yet keeps him/her alert. The Sensor numbers that are open, are displayed on the main unit.

For programming this feature, refer "Wired Zones – Operating Mode" + "Wireless Sensor – Operating Mode".

### **Voice messages** in various operations. The system gives voice message prompts:

- When system is ARMED, DISARMED, during various programming modes, etc.
- When Battery goes low of the main unit in ARMED mode, the system dials Telephone Number and gives voice message = Zone 99 Battery Low
- When Battery goes low of any of the wireless Magnetic / Vibration Sensor in ARMED mode, the system dials Telephone Number and gives voice message = Wireless Sensor + <ID no> + Battery Low
- When system is ARMED and intrusion takes place, the systems dials out and plays the Siren sound (message recorded by the user-Optional) + the Wireless Sensor Number or the Wired Zone Number. Refer "Voice Message Recording for playing on Telephone calls during Intrusion"

The message played would be:

Siren Sound / User Recorded message + Wired Zone / Wireless Sensor + Zone/ID Number

### **Wireless Keyboard** (Optional)

One or more Wireless Keyboards can be attached to this unit. Each Key Board can do limited Programming of the system. They can also ARM / DISARM the system. They also work as Wireless Siren. Each Keyboard has its own Password.

### **Wireless Remotes**

One Remote is included with the system but more of them can be used.

It has functions of Panic Alarm, Remote ARM/DISARM, Remote BYPASS ARM.

For further details, refer the heading "Wireless Sensors, Remotes & Panic Keys Registering/Deletion / Deletion"

### **Wireless Magnetic Sensor Battery Save Feature**

Wireless Magnetic Sensors with Battery save switch can be optionally installed on doors that are frequently opened / closed during the DISARM status. This extends the cell life of the sensor. During DISARM status, the sensor switch should be kept in OFF position and before ARMING the system, it should be shifted to ON position.

Operation: - When the system is DISARMED and the switch of the Sensor is not switched to OFF position, the system will give short beep at long intervals and its display will show "Please Switch OFF WL: ID Type: MS+SW".

- If system is being ARMED while the sensor switch is in OFF position, the display will show "Please switch ON WL: ID Type: MS+SW" and Siren will sound at long intervals.
- If Sensor switch is shifted to OFF position when the system is in ARMED condition, intrusion will take place.

**Programming:** Refer heading "Wireless Sensors, Remotes & Panic Keys Registering/Deletion"

### **Wrong Password Entry Alarm**

While DISARMING the system, if anyone enters wrong Password 3 times consecutively, the system will sound siren and dial out as is the case in Intrusion.

In this case the user will get message on his Telephone call as "Intrusion from 99". 99 is the ID of Main Unit.

## **Installation**

This Burglar Alarm System is supplied with following items:

- |   |   |      |
|---|---|------|
| 1. Main Unit with built-in Siren & Rechargeable Batteries | - | 1 No |
| 2. Wireless Remote  | - | 1 No |
| 3. Power Supply Adapter (12V 500mA DC)                    | - | 1 No |

A GSM SIM card is to be provided by the user.

### **Notes on Installation**

- Wireless Sensors can be placed within 300 ft distance from the Main Unit if there is no obstruction in between. They have to be registered in the Main Unit as explained under the heading “Wireless Sensors, Remotes & Panic Keys Registering/Deletion”.  
The distance between the Main Unit and Wireless sensors would be maximum when there is minimum interference of concrete walls, electric appliances etc.
- Install the Main Unit in an open & ventilated area so that the signals from different Wireless Sensors are received properly by the Main Unit. It should be installed at least 0.5 meters from ground. It should be ensured that no liquid spills over it.
- Do not install the Main Unit near high frequency electric appliance in order to avoid interference of electromagnetic waves.

### Wireless Sensor’s range checking method

Put a wireless Sensor in Traitor mode.

Take the Sensor to maximum distance from BAS and trigger the sensor.

If mild beeps with sensor ID number is shown on BAS display that means the sensor can be installed up to that distance.

### Connections

- There are 2 Connectors provided at the back side of the main unit. One connector is of 10 pins and the other of 5 pins. Their corresponding female connectors with wires are also provided with the system.
- The wires from the female connectors are to be connected as per the tables given below:

#### 10 Pin Connector

Wire Color	Description
Black	GND: Adapter 12V DC (-ve)
Brown	NC Type Wired Zone no 1 wire.
Red	Adapter 12V DC (+ve)
Orange	Wired Zone (NC Type) 3
Yellow	Wired Zone (NC Type) 4
Green	Wired Zone (NC Type) 5
Blue	Wired Zone (NC Type) 6
Violet	External Siren (+ve) Connect a 9 - 12V DC Type Siren (Max Wattage 300mA). If more than one external Siren is to be used, then install BAS-PS-B and do the connections as per the BAS-PS-B Manual.
Grey	Wired Zone (NC Type) 8
White	Wired Zone (NC Type) 7

#### 5 Pin Connector

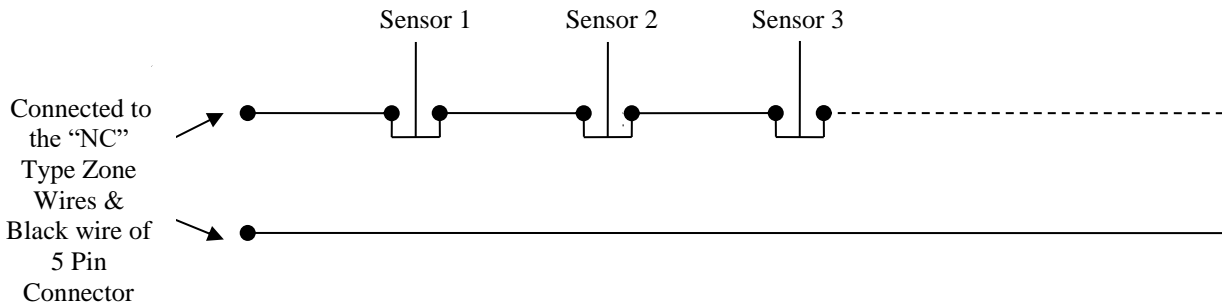
Wire Color	Description
Black	GND to be connected to: One end of all the Wired Zones wires, -ve of Auxillary Output, -ve of External Peizo Buzzer & -ve of External Siren
Black	GND
Pink	Wired Zone (NC Type) 2
Orange (Small Wire)	Supply (+ve) for Wired Sensors. Auxillary +Ve 8.5V DC Supply for Sensors. Sensors that operate 8.5V DC can be connected to this connector & GND, provided the total current drawn is less than 250mA.
Yellow (Small Wire)	External PB (Peizo Buzzer) +ve wire

There are 2 type of Wired Sensors – Normally Closed Type and Normally Open Type. They are respectively explained below:

#### Normally Closed Type

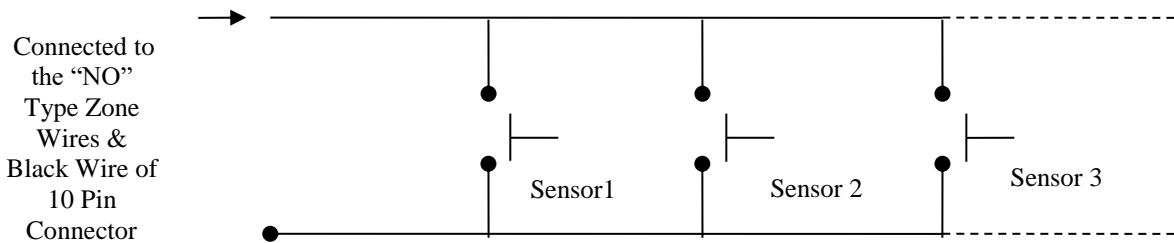
If more than one is to be connected in one Zone then they are connected in Series. Their contact points remain Closed in ARMED condition. The contact gets Open when the sensor senses intrusion. Connect all the “Normally Closed Type Wired Sensors” in series and terminate on any of the “NC Type” Zone wires of the Main Unit.

Any number of Wired Sensors can be connected as long as the total resistance of the Sensors and the wires is less than 200 Ohms.



### Normally Open Type

If more than one is to be connected in one Zone then they are connected in parallel. Their contact points remain Open in ARMED condition. The contact gets closed when the sensor senses intrusion. Connect all the "Normally Open Type Wired Sensors" in parallel and terminate on any of the "NO Type" Zone wires of the Main Unit.



**Note:** Each Zone can be connected to one or more Sensors provided they are same type i.e., They should either be Normally Closed Type or Normally Open Type. However, different Zones can be used for different type of Sensors.

**Wireless Remote & Wireless Sensors should be registered in the Main Unit as described under the heading "Wireless Sensors, Remotes & Panic Keys Registering/Deletion".**

### Power On Procedure

After doing all the connections, remove the Main Unit from its wall bracket.

Switch ON the 220V AC supply to the adapter.

Now hang the main unit back on its wall bracket.

The display show:

"Initialising GSM ....." - In case of any error the display will show "Initialisation Error"  
 "Initialising BOARD ....."

### Front Panel LED Indications

There are 2 LEDs on the front panel marked as ARMED and READY.

ARMED LED glows in red color and READY in blue color.

Following table illustrates the various conditions:

LED	Status	Message
ARMED	OFF	System is DISARMED
	ON	System is ARMED
	Blinking	System is in Intrusion mode & Tel Number (if entered) is being dialed by the system.
Ready	ON	System is running on AC mains
	Blinking	System is running on battery

### Low Battery indication

When the in-built Batteries of the Main Unit get low, "Low Battery" appears in the display of the Main Unit.

### Sound Indications

- During Intrusion the Siren sounds to its maximum power
- Whenever the system fails to get ARMED for any reason, the Siren sounds for a very short time with a long gap in between. This continues until DISARMED.
- Whenever a Sensor registered in TRAITOR mode is open, the speaker of the system would emit a low beep
- In case of Main System battery low, the speaker of the system would emit a low beep. This would also happen if battery of any of the compatible Sensor gets low.

## Display explanations

### Normal Standby mode

Display = 

HH:MM:SS DAY Srn DD/MM/YY DDDDDD
-------------------------------------

Where, HH:MM:SS = Current time in 24 hrs format (HH= Hours, MM= Minutes, SS= Seconds)

DAY = Today's day i.e., Mon, Tues, Wed, etc

Srn = It shows that the system is programmed to sound the Siren in case of Intrusion.

If this "Srn" symbol doesn't appear then it means the system is not programmed to sound the siren.

DD/MM/YY = Current day (DD= Date, MM= Month, YY= Year)

DDDDDD = Armed – means system is Armed

= Disarm – means system is Disarmed

= ByPass – means system is Armed in By Pass Mode

### While Arming the system

Display = 

SNSR OPEN W:X,Y, WL:AA,BB,CC,DD,
-------------------------------------

Where, W:X = Wired Zone numbers 1 to 8 in which Sensor is open.

WL:AA,BB,CC,DD = Wireless Sensor numbers from 01 to 75 that are Open.

### During Intrusion

Display = 

ZZZZ TYPE Intrus TTTTTTTTTT
--------------------------------

ZZZZ = WL:01 to WL:98 in case of intrusion from wireless sensor

W1 to W8 in case of intrusion from wired sensor

TYPE = PAN, PIR, MS, VBR, Gas, SMK or Misc in case of intrusion from wired sensor

= "Remote" in case Panic key is pressed from the Wireless Remote

= "Keypad" in case Panic key is pressed from the main unit.

Intrus = It means Intrusion

TTTTTTTTTT = The Telephone number being dialed by the system

### When battery goes low of any of the wireless Magnetic / Vibration sensor

X Sensr Batt low Type: YYYY WL:CC
--------------------------------------

Where, X= 1-9 (Total number of Sensors that are having low battery)

YYY= Type of Wireless Sensor (PAN, PIR, MS, VBR, Gas, SMK or Misc)

CC= 01 to 75 Wireless Magnetic / Vibration Sensor number

### When a Sensor is Open in DISARMED mode

Display = 

SNSR OPEN W:X,Y, WL:AA,BB,CC,DD,
-------------------------------------

Where, W:X = Wired Zone numbers 1 to 8 in which Sensor is open.

WL:AA,BB,CC,DD = Wireless Sensor numbers from 01 to 75 that are Open.

**Note:** During this display the back light is kept off (in order to save battery, in case AC mains is not available). To view the display with back light, press # key.

## Always ARMED Sensors

Any Sensor whether Wireless or Wired can be made to function 24 hours i.e., it would trigger intrusion in ARMED mode as well as DISARMED mode.

Programming:

: In case of Wireless Sensor, make its MODE = Always ARMED as explained under the heading "Wireless Sensor – Operating Mode".

: In case of wired sensor, its Zone is to be programmed as MODE = Always ARMED as explained under the heading "Wired Sensor – Operating Mode"

Operation: Whenever, the Sensor is triggered irrespective of the system being in ARMED or DISARMED condition, the Siren will start hooting and the system will dial out the Telephone numbers

## Arm

You can ARM the system and leave the Remote inside the premises, if required. In this case close all the sensors, ARM the system. Now leave the premises within 10 secs and close the door. This 10 secs can be decreased or increased up to 60 secs. Refer heading "Delay to ARM" for changing this time.

While moving out of the premises, ARM the system by any of the following method:

Press "QUICK EXIT" & \* Key together on the Main Unit + Enter Master Password 234) + #

or

Press the "ARM" on the Wireless Remote.

**Caution: While Arming the system from Remote, the system gives 2 Loud Confirmation tones. If 2 tones are not heard, arm it again. Keep pressing the ARM key until you are sure of the 2 tones.**

In ARM state, the indicator on the main unit would glow RED.

Now, whenever any sensor is triggered, the system will dial the preset telephone number and activate the siren after 10 secs.

Note: In case of PANIC button being pressed, there is no delay.

## ARM Bypass

In this mode, one or more Zones can be programmed to remain Disarmed while rest of the Zones get ARMED. This feature is useful where some part of the building occupied by servants may be left Disarmed while keeping the rest of the building Armed.

Procedure to activate the system in Bypass mode is explained below.

If system is Armed normally through, then even the Bypass zones get Armed.

To program a Zone as a Bypass Zone refer "Wireless Sensor – Operating Mode" & "Wired Zones – Operating Mode".

To ARM the system in Bypass mode:

Press "Back Space" and "7" together on the Main Unit.

Enter Master Password "1234" + #

or

Press the "ARM Bypass" Key on the Wireless Remote.

**Caution: While Bypass Arming the system, the system gives 2 Loud Confirmation tones. If 2 tones are not heard, arm it again. Keep pressing the Bypass ARM key until you are sure of the 2 tones.**

## ARM / DISARM Confirmation Sounds control

Whenever the system is ARMED / DISARMED there are 2 Sound indications:

Siren Sound Confirmation

Voice Command Confirmation

Both these can be switched ON/OFF as explained below.

### Siren Sound Confirmation

When the system is ARMED or DISARMED from Wireless Remote or the Main Unit, there is a confirmation sound from the Siren. This Sound can be set as ON or OFF.

Press SET

Enter Master Password (1234) + #

Keep Pressing 2 to select "Conf Tone"

Press #

Press key "UP" or "DOWN" to select "OFF or ON for this feature

Press # + Quick Exit

### Voice Command Confirmation

When the system is ARMED or DISARMED from Wireless Remote, there is a confirmation Voice Command which can be set as ON or OFF.

Programming:

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "Rmt Voice Cnf"

Press #

Press key "UP" or "DOWN" to select ON or OFF

Press # + Quick Exit

If it is set at OFF, the Voice Command will not appear while Arming / Disarming from the wireless Remote.

**Note:** This cannot be switched OFF while Arming / Disarming from the Main Unit.

## Auto Arm / Disarm Time + Holidays

The system can be programmed to ARM and DISARM automatically up to 3 times a day.

There are 3 groups of time and each group has a time of ARM and DISARM.

Programming:

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "Auto ARM/DISARM"

Press #

Press 0 for Sunday

1 for Monday

2 for Tuesday

3 for Wednesday

4 for Thursday



5 for Friday  
6 for Saturday  
7 for All Days

Press "UP" or DOWN" to select Grp 1, Grp 2 or Grp 3.

Press 4 to make Grp = ON / OFF

BACK SPACE + HH + MM + # + hh + mm + # + Quick Exit

Where, HH = ARM Time: Hours in 24 hrs mode & MM = Minutes

hh = DISARM Time: Hours in 24 hrs mode & mm = Minutes

**Default:** In default the system is not in Auto Arm / Disarm mode.

**Note:** To operate the system with separate Day wise timings, keep all the 3 Groups of "All Days" = OFF.

: User can use all the 3 time groups by entering the same DISARM time but keeping the ARM time different or Vice Versa. Example: If system is to be operated with following changing time for all days:

First ARM Time = 11 PM

DISARM Time = 9 AM

Second ARM Time = 1PM

DISARM Time = 2PM

Then programming would be:

"SET"

Master Password (1234) + #

Keep Pressing 2 to select "Auto ARM/DISARM"

Press #

Press 7

Press "UP" or DOWN" & select Grp 1 + 4

Back Space

2300 + #

0900 + #

Press "UP" Key (Grp 2 will appear) + 4

Back Space

1300 + #

1400 + #

Quick Exit

: To ARM the system for the whole day, enter ARM Time = 0000 and DISARM time = 2359

: If all the 3 Time Groups of a day are = OFF then the previous day's last status (Armed / Disarmed) shall continue.

#### : **Example of Day wise operation**

If system is to be operated with following time:

From Monday to Saturday

ARM Time = 10 PM

DISARM Time = 9 AM

On Sunday

All day ARM

i.e., ARM Time = 0000 Hours

DISARM Time = 2359 Hours

The programming would be:

"SET" + Master Password (1234) + #

Keep Pressing 2 to select "Auto ARM/DISARM"

Press #

Select the Day 1 (for Monday)

Press "UP" or DOWN" & select Grp 1 + 4 + Back Space

2200 + #

0900 + #

Quick Exit

Repeat the above for Tuesday + Wednesday + Thursday + Friday + Saturday

Now for Sunday all the 3 Time Groups should be = OFF

: If the system is working in Auto ARM / DISARM mode & the Battery of the main unit goes low then the system will not ARM. At the time of ARMING it will dial out & give message =Zone 99 Battery Low. It will not sound the siren in this case. The same would happen if any of the Sensor is Open at the time of Auto ARMING.

The message given would be = Wired / Wireless Sensor + Zone / ID number.

#### **Holidays entry**

Up to 10 holidays can be entered in the system. On those days the system will continue in the previous day's status.

Entry of day:

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "Holidays"

Press #

Press "Up Arrow" key to select day 1, 2, 3, .....

Press "#"

Enter the date + Month + Year (All in 2 digits format)

Here, "Back Space" key can be used to edit the entered digits.

Press "#" to confirm

Press "Quick Exit" to exit

Deletion of day:

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "Holidays"

Press #

Press "Up Arrow" key to select day 1, 2, 3, .....

Press "Back Space"

Press "#" to confirm deletion

Press "Quick Exit" to exit

Default: No holidays.

Note: If wrong date is entered, system will display "Invalid Date".

: Today's date or previous date is considered wrong by the system

### Battery Mode - Power Switch Off

When AC mains is not present, the system shifts to the battery mode and keeps the system running.

If it is required to switch OFF the system when running in Battery mode, do the following programming.

Procedure: Press BACK SPACE

Enter Master Password (1234) + # + 2 + #

System will switch OFF.

**Note:** The system gets ON automatically when the mains AC is restored.

: The system cannot be switched OFF if mains AC is connected to it.

: The system has built-in rechargeable Li batteries. If longer back up is required then additional rechargeable 12V 7AH battery can be connected with an Optional Adapter having charger.

### CMS (Central Monitoring Station)

With this feature, all or selected events are logged with a Central Monitoring Station maintained by Copper Connections Pvt Ltd. In the event of any intrusion, the attendant at CMS will take necessary action (as desired by the user). This facility can be availed from Copper Connections Pvt Ltd on annual charges basis.

**Programming for activation of the feature:**

The system is to be given the CMS telephone number through programming.

**To Enable the CMS feature:**

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "CMS Settings"

Press #

Press 2

Press 6 and select CMS = Enable or Disable. Press 6 again to alter Enable / Disable.

Press #

Press "Quick Exit"

**To Enter Telephone Number of the CMS**

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "CMS Settings"

Press #

Press 1

Press "Back Space"

Enter the Telephone Number

Press #

Press "Quick Exit"

### Date / Time Setting

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "Set Date"

Press #

Press YY + # + MM + # + DD + # + HH + # + MT + # + d + # + Quick Exit

Where, YY= Year

MM= Month

DD= Date

HH= Hours in 24 Hours mode.

MT= Minutes

d= Week Day from 0 to 6 (0= Sunday & 6= Saturday)

### Disarm

While entering the premises, DISARM the system with any of the following methods within 10 secs of entering the premises:

Press "SET" and 1 together on the Main Unit + Enter Master Password (1234) + #

Note: If the Display shows WAIT then wait till that disappears & then Press SET+1.

or

Press the "DISARM" Key on the Wireless Remote.

While Disarming the system, it gives one single loud tone.

### Delay to ARM

This is the time delay after system takes action on getting intrusion from any Sensor. This delay also helps in Arming the system while leaving the premises. The user can ARM the system while being inside the premises and then leave within this time:

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "Arm Delay"

Press #

Back Space

Enter Time delay in seconds in 2 digits (00 - 60 Sec.)

Press # + Quick Exit

Default: 10 secs.

### Panic Key

The Wireless Remote supplied with the system has a Key marked as "PANIC".

After 3 secs of pressing this key, the Siren will start hooting and the system will start dialing the Telephone Numbers.

This would happen whether the System is in ARMED mode or DISARMED mode.

If desired, more Panic Switches can be registered in the system. Following are the type of Switches that can be added:

Wireless Remotes (one is supplied with the system and more can be registered)

Wired Panic Switches

Programming:

: In case of Wireless Remote, add Wireless Remote as explained under the Heading "Wireless Sensors, Remotes & Panic Keys Registering/Deletion "

: In case of Wired Panic Switches, its Zone is to be programmed as MODE = Always ARMED as explained under the heading "Wired Sensor – Operating Mode"

Operation: Panic activation from the Remote.

Press "PANIC" Key.

Siren starts hooting and the system dials out on the Telephone line.

: Panic activation from the Main Unit

Press "SENSOR" Key & "4" Key together.

Note: In case of PANIC code entry from the main unit, there is no KEY PAD sound.

### Panic Key – Silent

User has the option to press "Panic" or "Silent Panic" keys from Remote / Main Unit.

In case of "Panic", the system activates the Siren as well as dial out on Tel Line.

In case of Silent PANIC, the system only dials out on Tel Line.

To activate "Silent Panic" from Main, press Key 5 + 6 together.

To activate "Silent Panic" from Remote, press Panic Key & then press "ARM BY PASS" key within 3 secs. If "ARM BYPASS" key is not pressed within 3 secs then the system will activate as Normal PANIC.

Note: Silent Panic is available from Main Unit & Remote Units but not in Wired / Wireless Panic Switches

: In case of SILENT PANIC code entry from the main unit, there is no KEY PAD sound.

### Passwords

The system has 7 Passwords.

1 Password is a "Master Password" which can do all the programing & all the operations.

5 Passwords are "User Passwords". They can only ARM, DISARM or BYPASS ARM the system.

1 Password is an "Emergency Password" which starts dialing to stored telephone numbers without siren sound.

All Passwords except Emergency Password can be changed by their respective Passwords. One User Password cannot change other's Password.

But Master Password can change User's Passwords as well as his own.

The default Master Password = 1234

Emergency Password = 0000

In default there is no User Password. Master Password has to enter the User Passwords.

System doesn't accept 0000 as User or Master Password.

All programming requires Master password.

All programming are to be done in DISARM mode of the system.

After entering the Master Password for the first time, the system remains in Programming mode for 60 secs.

So, in case more than one programming is to be done, the system will not ask for Password again within 60 seconds of the first programming.

Hence in such cases, the steps of "Enter Password + #" would get void in all the programming steps.

The Master Passwords can be changed as described below:

Press "SET"

Enter Old Password + #  
Keep Pressing 2 to select "Password Chng"  
Press #  
Enter New 4 digit Password + # + Quick Exit

Alternately, Master Password can change User Passwords also as explained below:

Press "SET"  
Enter Master Password (1234) + #  
Keep Pressing 2 to select "Password Chng"  
Press #  
Press \* to select the desired User Password to be changed  
Enter New 4 digit User Password + # + Quick Exit

**Note:** The Master Password can change User's Password but cannot view their Passwords.

: **After entering any Password if another Password is to be used before elapse of 60 seconds, press "Quick Exit" twice.**

: While changing Password, if the Password being entered is used by someone, it will display "Invalid Password". Same is true in case Password being entered is "0000".

## Password Operation On / Off

This feature allows ARMING of the system with or without Master Password.

Press "SET"  
Enter Master Password (1234) + #  
Keep Pressing 2 to select "Password Optn"  
Press #  
Press key "UP" or "DOWN" to select OFF or ON for this feature  
Press # + Quick Exit

## Record of History

The system keeps a record of last 100 events of ARM, DISARM and Intrusions with date and time of events.

To View the records:

Press (History).  
Enter Master Password (1234) + #  
Press "UP" or "DOWN" to select a particular record.

To Clear the records:

Press (History).  
Enter Master Password (1234) + # + Back Space + Master Password (1234) + #

Note: After 100 records, the very first record gets deleted to record the 101<sup>st</sup> event.

Explanation of the Display on the main unit:

SN ZZ DDDDDD TTT
Date Time

<b>Display</b>	<b>Meaning</b>
SN	= 00 to 99 denoting Serial Number of the History
ZZ	= Wired Zone Number / Wireless Sensor number 01 to 75 in case of Wireless Sensor 98 in case of Operations through Telephone Line 99 in case of "Main Unit" W1 to W8 in case of Wired Zones
DDDDDD	= It either of the following action: = Armed - means the system was armed at that time. If, ZZ=99 then the system was Armed from the main unit. = Disarm - means the system was disarmed at that time = Intrus – means intrusion from the displayed wired Zone or wireless Sensor = Panic – means Panic key was pressed = Batlow – means battery is low of the displayed wireless Sensor or the main unit in case of ZZ=99 = Bypass – means the system was Armed in Bypass mode = PwWrng – Wrong Password entered 3 times consecutively. = SI Pan – Silent Panic = A.Fail (It means Auto ARM failed due to ZZ Sensor being Open. If ZZ= 00 that would mean that Auto ARM failed because of some condition like No Telephone Number stored, SIM Not connected, etc) = Faulty (HHW is not working)
TTT	= Tel – means Telephone numbers were dialed by the system = Blank means no telephone number was dialed by the system

- = P:X Where X = 1, 2, 3, 4, 5, M
- P:1 = Operated by User Number 1
- P:2 = Operated by User Number 2
- P:3 = Operated by User Number 3
- P:4 = Operated by User Number 4
- P:5 = Operated by User Number 5
- P:M = Operated by Master User
- P: = Operated from Main Unit without Password  
(This will happen the System is programmed with  
Password Option = OFF)
- T:. = Operated through Telephone Line
- Date = Date of the activity
- Time = Time of the activity

### Remote monitoring through Telephone line

The system can be monitored through Telephone line from anywhere in the world. One has to dial the Tel number that is connected to the System. The system picks up the call after a set number of rings.

Voice message "Enter password" will be heard.

After the message is over, dial Master Password (1234) #

If password entered is wrong, a message "Wrong Password" will be heard.

If wrong Password is entered 3 times then intrusion will be caused by the system after 5 minutes.

If correct password is entered, a voice message "Welcome" will be heard.

Press "1" to Listen / talk through the Main Unit.

Now the system will remain in Listen In / Talk mode for 4 minutes.

To extend the time, dial 1. Another 4 minutes will be extended from the time of dialing 1.

Press "2" to activate the siren

Press "3" to de-active the siren

Press "4" to ARM the system

Press "5" to DISARM

Press "7" to Force Arm the system, which allows arming of the system even if a sensor is left open.

Press "#" to end call

### Number of rings after which the system picks up the call for remote monitoring

Programming:

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "No. of Rings"

Press #

Press 0 to 9 + #

Where, 0 to 9 = 1 to 9 is the Number of Rings (0 is equal to 1).

Note: Default value = 4

### Remote monitoring during intrusion

On receiving the call, the receiver will hear siren sound (10 seconds recorded message- optional).

Press ★

Press "1" to Listen / talk through the Main Unit.

If a code is not dialed within 20 seconds, the call will disconnect and the system will then resume dialing.

Press 2 to activate Siren

Press 3 to deactivate Siren

Press 4 to ARM the system

Press 5 to DISARM

Press 6 to Listen to the Zone Number / Sensor Number from where intrusion has taken place.

Press # to End Call

**Note:** The Telephone numbers are dialed by the system as per the sequence number in which they are entered.

: The system keeps dialing Telephone numbers unless any of the called party DISARMS by dialing 5.

### Resetting to Factory Settings

Some of the programming of the system (listed below) can be reset to the default values:

Operation through Master Password = ON / OFF (Default = ON)

Time delay to activate Siren after intrusion (Default = 10)

Confirmation Sound ON/OFF, while activating from Wireless Remote (Default = ON)

Siren Hooping Time (Default = 1 minute)

Ringing time of an incoming call, after which the system picks up the call for remote Monitoring (Default = 6 Rings)

Telephone Numbers = Clean.

Time delay to ARM (Default = 00)

Auto ARM/ DISARM (Default = Manual) OFF

Procedure: Press BACK SPACE + Enter Master Password (1234) + # 11 # #

(2 Beeps will indicate that the system has been reset)

## Resetting SIM

In case System doesn't get ARMED and shows "No Network" then reset the SIM using the following procedure.  
Procedure: Press BACK SPACE + Enter Master Password (1234) + # + 1 + 2  
(2 Beeps will indicate that the SIM has been reset)

## SIM Alarm Enable / Disable

The system has a feature to display 'SIM Absent' when no SIM card is inserted.  
This feature can be Enabled or Disable from the Keypad.

Programming:

- Press "SET"
- Enter Master Password (1234) + #
- Keep Pressing 2 to select "SIM Alarm"
- Press 'Mode' key to select 'Enable/ Disable'
- Press # + Quick Exit

## SIM Balance Checking

### From Main Panel

To know the balance amount in a prepaid SIM card installed in the BAS, following is the procedure:  
Press 0 # - Enter the Balance Enquiry Codes of Service Provider (\*123# in case of Airtel) – Press #.  
Balance amount will be displayed.  
Press "Quick Exit" to exit.

### Through SMS

Registered Mobile Numbers can send following SMS to the SIM installed in the BAS and get reply of the SIM balance:

**SIMBAL CCCCC** . . .

Where, CCCCC . . . . = The Code to check SIM balance (given by the service provider)

**Example:** In case of AIRTEL, SIMBAL \*123#

## Siren Hooting time

This is the time for which the Siren will keep hooting during intrusion.  
If the time is kept = 00 then Siren will not sound at all and the system will silently dial out on telephone line.  
Programming:

- Press "SET"
- Enter Master Password (1234) + #
- Keep Pressing 2 to select "Siren Time"
- Press #
- Press 00 to 99 + # + Quick Exit
- Where, 00 to 99 = Hooting Time in Minutes of the Siren

Note: When the Siren Hooting Time= 00, the "Srn" display on the right hand side corner of the Main Unit LCD Display will not be there.

: The default value is 30 Minutes.

## Siren ON or OFF

The Siren of the system can be disabled. Then the siren will not sound in case of intrusion however Telephone dialing shall be done by the system, if enabled and telephone numbers are entered.

Siren cannot be disabled for the following conditions:

When any of the Wired Zone or wireless Sensor is open & system is being Armed.

Programming:

- Press "SET"
- Enter Master Password (1234) + #
- Keep Pressing 2 to select "Siren ON/OFF"
- Press #
- Press Key "UP" or "DOWN" to select ON / OFF
- Press # + Quick Exit

Note: In default it is = ON

## Signal Repeater – Wireless

Put the Signal Repeater ON by sliding the Slide Switch on the TOP of the Signal Repeater. The Green LED marked as "Power" will turn ON.

The Switch has 3 positions: Right position is for OFF. The middle & Left position are for ON and are same.

The Display will show digits 0 to 9 one by one and then the Display will turn OFF.

Now register the Signal Repeater in the Main Unit as described below:

- Press "SENSOR"
- Enter Master Password (1234) + #
- Press 1
- Keep Pressing 2 to select "Tamper"
- Press #
- Enter 2 Digit ID number (from 01 to 75)

Press #

Remove Magnet Unit of the Signal Repeater (In order to send Tamper signal)

(The Main Unit will give a double Beep indicating that the registration is complete. 5 short beeps would mean that the registration is not successful)

Press Quick Exit

**Note:** Number of Signal Repeaters can be registered and used for extending the range from one Signal Repeater to another.

: Every Signal Repeater consumes one of the 75 Wireless Sensors capacity of the system.

: SW and FSW do not work through Signal Repeaters.

### Deletion

This process deletes all the Signal Repeaters & Wireless Remotes connected to the system. If only one is to be deleted then delete all the Remotes/Signal Repeaters and register the required ones again.

Press "SENSOR"

Enter Master Password (1234) + #

Press 2 + 2

Press Up or DOWN Key to select the Sensor ID that is to be deleted.

Press Back Space

Press # + Quick Exit

## Signal Strength test of GSM

User can check the strength of GSM signals received at the location where the system is installed. This helps in locating suitable place of installation.

The system cannot be ARMED when the signal strength is less than level 15. In that case the display will show "No Network" or "Network Error".

If Signal strength is between Level 15 and 18, system will dial out & also send SMS in case of intrusion but may accept all DTMF digits dialed by the user. Above level 18, the system would work perfect for all features.

Procedure:

Press "5" Key

Enter Master Password (1234) + #

The display will show the following:

+CSQ: X,0

Where X= Signal Strength 0 to 31.

Press "Quick Exit" to Exit.

## SMS Text & Android Application for Various Programming

### Programming by SMS:

Following are the SMS Text message that need to be sent to the SIM installed in the system for various actions:

	Action	Command	Description
1	Arm system	XXXX+ARM	The system will be ARMED
2	Disarm system	XXXX+DISARM	The system will be DISARMED
3	Bypass Arm system	XXXX+BYPASS	The system will be ARMED in BYPASS mode
4	System details - Short	XXXX+SYSTEM	System will send SMS giving following details: System Status: ARMED or DISARMED Power: On Mains / On Battery Date: DD/MM/YY Time: HH:MM in 24 Hours format Tel: X (X= no of Tel Numbers stored) Wired Zones Active: X (No of Wired Zones that are Enabled out of 8 Wired Zones) Wireless Sensor: X (No of Wireless Sensors Registered, except Remotes) Remote: X (No of Remotes registered)
5	System details – Detailed	XXXX+SYS DETAIL	System will send SMS giving following details: System Status: ARMED or DISARMED Power: On Mains / On Battery W STAT: This shows the Modes in which 8 Wired Zones are Enabled. DS means Disabled. NA= Normal ARM, AA= Always ARM, TR= Traitor, BA= By Pass, WL Stat: This shows the ID, Type and Mode of the registered wireless sensors. MS= Magnetic Switch, VIBR= Vibration Sensor, RMT= Remote, PIR= Motion Sensor, TAMP= Tamper Sensor, PAN= Panic, HEAT= Heat Detector, SMK=

			Smoke Detector, GAS = GAS Detector, HHW= Heat and Humidity Detector, BEAM= Beam Sensor, WKBD= Wireless Key Board, M+S= Magnetic Sensor with Switch DS means Registered but Disabled. NA= Normal ARM, AA= Always ARM, TR= Traitor, BA=By Pass.
6	Registered telephone number list	XXXX+TEL	All the registered Telephone numbers will be listed.
7	Change Master Password	CHANGE PW XXXX YYYY	XXXX = old Master Password , YYYY = New Master Password
8	SIM balance check	SIMBAL ccccc	cccc = Service provider's SIM balance code. E.g. for Airtel , it is *123#. You will get a SMS stating the balance in SIM of BAS.
9	Add telephone number	XXXX+ATELjk tttttttt	j = Tel location from 1-6 , k = E for SMS commands enable/ D for SMS commands disable , tttttttt = telephone number (max 11 digits)
10	Delete telephone number	XXXX+DTELj	j = tel location from 1 – 6
11	Set auto Arm/Disarm	XXXX+AUTOj aaaa dddd	j = group number (1 -3) , aaaa = arm time in 24hr format , dddd= disarm time in 24hr format. This setting will be applied for all the 7 days of the week.
12	Disable auto Arm/Disarm	XXXX+OFFAUTO	Auto ARM/DISARM will be disabled.
13	Delete all wireless sensors	XXXX+WLALLDEL	All Wireless Sensors will be deleted.
14	Delete specific wireless sensor	XXXX+WLDEL nn	nn= wireless ID to delete.
15	Add wireless sensor	XXXX+WLADD nn y	nn=wireless ID, y = type of sensor. Refer table below for values.
16	Change mode of specific wireless sensor	XXXX+WLMOD nn y	nn = wireless ID , y = mode of sensor( 0=Normal Arm , 1 = Disable, 2= arm bypass , 3 = always armed)
17	Disable all wired zones	XXXX+WRALLDIS	All Wired Zones will be disabled.
18	Set mode of specific wired zone	XXXX+WRMOD n y	n = wired zone (1 to 8), y = mode of zone ( 0=Normal Arm , 1 = Disable, 2= arm bypass , 3 = traitor mode, 4 = always armed)
19	Set name of wired zone	XXXX+WNAMEn pppp	n = wired zone (1 to 8), p= name of wired zone (up to 15 characters). This name will be used in SMS sent to users & CMS.
20	Set name of first eight wireless sensor	XXXX+WLNAMEn pppp	n = wireless sensor (1 to 8), p= name of wireless sensor (up to 15 characters). This name will be used in SMS sent to users & CMS.
21	Set system name	XXXX+SYSNAME qqqq	q= name of system (up to 15 characters). This name will be used in SMS sent to users & CMS.
22	To Force Arm System	XXXX+FOARM	Arms the system even if a sensor is left open.
23	Date & Time setting	XXXX+DATE ddmmyy j hhmm	dd = date, mm=month , yy=year , j = day (Mon=1...Sun=7), hh=hours, mm = minutes
24	No. of rings to pick up incoming call	XXXX+RINGS n	n= number of rings to be assigned (1 to 8)
25	Sensors Open	XXXX+OPEN SENS	Displays all the sensors which are open
26	System reset	XXXX+RESETSYS	All data will be erased except the Telephone Numbers and their SMS configuration.

**Note:** Messages are case sensitive. Enter in **Capital letters only**.  
: XXXX in the above table refers to 4 digit Password

### Programming by Android Application:

The free android application named 'BAS-G' is available on Google Play Store.

Steps to add your BAS-G panel in the application are as follows:

Press 'LOGIN' displayed on home screen of app

Press 'ADD'

Enter System Name- a suitable name for the BAS-G System

Enter System Number- the number of SIM Card installed in BAS-G

Press 'DONE'

The system name will now be displayed on the app.



Similarly, multiple systems can be added by pressing the 'ADD' option on top right corner

On pressing the name, you are shown options to Arm, Disarm, By Pass Arm, etc.

Press the desired option, and enter your password for the BAS-G panel.

For all other programming, press 'Settings', choose the desired programming, and enter your password to Confirm

A confirmation SMS for the same will be received from the panel.

Wireless Sensor Type Table			
Type	Code	Type	Code
MS	0	SMOKE	7
VSW	1	GAS	8
RMT	2	HHW	9
PIR	3	BEAM	A
TAMP	4	KBD	B
PANIC	5	MS+SW	C
HEAT	6		

### Telephone Numbers Entry & SMS Controls

User can enter up to 6 telephone numbers that can be dialed by the system. Each Telephone number can be individually configured for:

Sensing & receiving SMS in selected events only.

You can set a Telephone number for SMS in all events (i.e., ARM, DISARM, PANIC, Batt. Low, Tamper, Intrusion, etc + user can send SMS from that Telephone number to ARM, DISARM, Change Pass Word, etc). After setting the Telephone number for all events, you can disable selected events. Similarly you can Disable all events and enable selected events.

#### To enter Telephone numbers that are to be dialed during intrusion:

Press Key "3"

Enter Master Password (1234) + #

Press "UP" or DOWN" to select the telephone number.

Press # + Back Space

Enter the Telephone number (Whenever Country code is used, make sure to add + before the country code. "+" can be added through "\*" Key).

Each Telephone number can be of maximum 16 digits.

Press #

Quick Exit

Press "UP" or DOWN" to set the next /previous Telephone number in location 1 to 6.

Repeat the above steps for all the Telephone numbers

#### To configure Telephone numbers for SMS to be sent / received in all events or in NO event:

Press Key "3"

Enter Master Password (1234) + #

Press "UP" or DOWN" to select the telephone number.

Press #

Press # again

Press UP / DOWN Key to select the "All Cases"

Press 6 to Enable / Disable (If enabled, SMS will be sent/received in all events. If Disabled then in no case SMS will be sent/received on that Telephone number)

Press #

Quick Exit

Press "UP" or DOWN" to set the next /previous Telephone number

Repeat the above steps for all the Telephone numbers

#### To configure Telephone numbers for SMS in selected events:

Press Key "3"

Enter Master Password (1234) + #

Press "UP" or DOWN" to select the telephone number.

Press #

Press # again

Press UP / DOWN Key to select the event

Press 6 to Enable / Disable

Press #

Press UP / DOWN Key to select another event

Press 6 to Enable / Disable

Press #

..... continue for various events

Quick Exit

Press "UP" or DOWN" to set the next /previous Telephone number in location 1 to 6.

Repeat the above steps for all the Telephone numbers

Note: The Telephone numbers are dialed by the system as per the sequence number 1 to 6.

: The display shows 2 Alphabets (AB) at the end of each Telephone number entered.

A = Y means "SMS feature" is available on that Telephone number.

= N means "SMS feature" is not available on that Telephone number.

B = Y means "Command feature" is available on that Telephone number.

= N means "Command feature" is not available on that Telephone number.

: If no Telephone number is entered, the system cannot be ARMED.

#### **Deleting a Telephone number**

Press Key "3"

Enter Master Password (1234) + #

Press "UP" or "DOWN" to select the telephone number to be deleted.

Press # + Back Space

Press #

### **Telephone Number Redial Times**

To set the number of times the system should dial each of the 6 Telephone numbers, following is the programming:

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "Redials"

Press # + Back Space

Press 01 to 15 + # + Quick Exit

Where, 01 to 15= No of Times to Redial

Note: If 3 is entered then System will dial each Telephone Number 3 times unless any of the called party dials # or DISARMS by dialing 5.

: In default the number of Redial Times = 02

: If value entered is greater than 15 then system will accept the same but store it as 15.

### **Telephone Number Display - ON / OFF**

Telephone Numbers being dialed by the system during intrusion are displayed on the Main Unit. This display can be cancelled with the following programming.

Programming:

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "Tel Display"

Press #

Press key "UP" or "DOWN" to select ON / OFF

Press # + Quick Exit

Note: It is OFF in default.

### **Voice Message Recording for playing on Telephone calls during Intrusion - Optional**

Voice message which the system plays after dialing Telephone number, during intrusion.

#### **Programming for recording of message:**

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "V Recrdng"

Press #

Press 1

Now start speaking near the Mic of the Main Unit. The recording starts when the display shows 10 and ends at 1 i.e., total 10 secs of recording.

Press # + Quick Exit

#### **Programming for Playback of recorded message:**

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "V Recrdng"

Press #

Press 2

Listen to the recorded message. The play back starts when the display shows 10 and ends at 1.

Press # + Quick Exit

**Note:** When this option is not taken, the system plays a Siren Sound in its place.

### **Wireless Sensors, Remotes & Panic Keys Registering/Deletion**

Maximum 75 Wireless Sensors (including Wireless Remotes & Signal repeaters) can be used in a system.

Every Wireless Sensor / Remote / Panic has a unique security code & has to be registered in the Main Unit in order to make it functional.

Process: Press "SENSOR" key

Enter Master Password (1234) + #

Press 1

Keep Pressing 2 to select Type of Sensor to be registered. See the List below.

Wireless Sensor Type	Display in case of Intrusion
Magnetic Snsr	MS (In case of MS without Switch) MS+SW (In case of MS with Switch)
Vibratn Snsr	VIBRN
Remote	RMT
PIR	PIR
Tamper	TAMP
Panic Remote	PAN
Heat Detector	HEAT
Smoke Detectcr	SMOKE
Gas Detector	GAS
Heat/Humidity	HHW (In default Temperature = 50 Deg Cent & Humidity = 97%. To change these values refer the HHW Manual.)
Beam Sensor	BEAM
Wireless Kbrd	“Not Applicable” (It is shown as KBD in History)
Flashing Sirn	“Not Applicable”

Press # (In case of Magnetic Sensor, there will be another option to select “MS Widout Swch” or “MS with Switch”. Press 1 for “Widout Swch” and 2 for “MS with Switch”. Magnetic Sensor with switch is designed for applications where the door is opened / closed frequently during the day thereby consuming too much of the battery of the sensor.)

Dial 01 to 75 (ID number to be given to the sensor. An ID number cannot be entered twice in a system.)

Press #

Now trigger the Wireless sensor (either Open the Sensor or Close the sensor) + # Quick Exit

In case of “Wireless Keyboard”:

Press 2 + Pass Word of the “Wireless Key Board” + #

**Note:** Whenever the intrusion take place, the Main Unit display will show the ID number of the Sensor and its Name.

For example: If a Magnetic Wireless Sensor is installed on the Main Door and is registered with N= 3 + ID number = 11, then the display will show WL11: MS. Here, WL stands for Wireless & MS for Magnetic Sensor.

: During triggering of the Wireless sensor (either Open the Sensor or Close the sensor), two short beeps in the Main Unit confirms a successful setting & display shows “Successfully Sensed”.

Five short beeps means a wrong setting & display shows “This Zone ID is already allocated”.

: During the programming, the system auto cancels the operation if it doesn’t receive the input from Wireless Sensor within 20 seconds.

: Smoke, Heat, Heat/Humidity, Signal Repeater, GAS & Tamper Type automatically gets registered in “Always ARMED” mode and cannot be hanged to any other mode except to DISABLE mode.

### Deletion of Single Wireless Sensor registration

To delete a Wireless Sensor registration from the Main Unit:

Press “SENSOR”

Enter Master Password (1234) + #

Press 2 + 2

Press UP or DOWN key to select the Sensor ID that is to be deleted.

Press BACK SPACE + # + Quick Exit

### Deletion of All Wireless Sensor registration

This process deletes all the Signal Repeaters & Wireless Remotes connected to the system. If only one is to be deleted then delete all the Remotes/Signal Repeaters and register the required ones again.

Press “SENSOR”

Enter Master Password (1234) + #

Press 3 + # + Quick Exit

## Wireless Sensor – Operating Mode

Press “SENSOR” Key

Enter Master Password (1234) + #

Press 2 + 2

Press “UP” or “DOWN” key to select the desired Wireless Sensor

Press MODE to choose any of the following modes of Sensor:

Mode	Function of Sensors in the Zone
Normal ARM	These Wireless Sensors will function in case of system being ARMED or “BY Pass ARMED.”
Disable	This Wireless Sensor will not work.
ARM Bypass	These Wireless Sensors will function only when System is ARMED & not when “By-Pass AREMD”.
Traitor Mode	Whenever this Wireless Magnetic Sensor is open, system will give beeps. This would happen only when system is DISARMED.

Always ARMED	These Wireless Sensors will always remain in ARMED condition whether the system is ARMED or DISARMED.
Silent Normal	These Wireless Sensors will function in case of system being ARMED or "BY Pass ARMED." But there will be no siren sound.
Silent Always	These Wireless Sensors will always remain in ARMED condition whether the system is ARMED or DISARMED. But there will be no siren sound.

Press # + Quick Exit

**Note:** In default all Wireless Sensors get registered in "Normal ARM" mode.

: All modes will not be selectable for all type of Sensors. The availability shall be as per the table given below:

Sensor Type	Modes						
	Normal ARM	Disable	ARM Bypass	Traitor	Always ARM	Silent Normal	Silent Always
Remote							
Magnetic Sensor	•	•	•	•	•	•	•
Vibration Sensor	•	•	•		•	•	•
PIR	•	•	•		•	•	•
Panic							
Gas		•			•		•
Smoke		•			•		•
Heat		•			•		•
Heat/Humidity		•			•		•
Beam Sensor	•	•	•		•	•	•
Tamper		•			•		•
Wireless Key Board							

### Wired Zones – Operating Mode

Press "SENSOR" Key

Enter Master Password (1234) + #

Press 2 + 1

Select the desired Wired Zone from 1 to 8, by pressing "Up" or "Down" key.

Press MODE to choose any of the following modes of Sensor:

Mode	Function of Sensors in the Zone
Normal ARM	All Sensors of this Zone will function in case of system being ARMED or "BY Pass ARMED."
Disable	No Sensor of this Zone will work
ARM Bypass	All Sensors of this Zone, will function only when System is ARMED & not when "By-Pass ARMED".
Traitor Mode	Whenever any of the Magnetic Sensor of this Zone is open, system will give beeps. This would happen only when system is DISARMED.
Always ARMED	All Sensors of this Zone will always remain in ARMED condition whether the system is ARMED or DISARMED.
Silent Normal	All sensors in this zone will function in case of system being ARMED or "BY Pass ARMED." But there will be no siren sound.
Silent Always	All sensors in this zone will always remain in ARMED condition whether the system is ARMED or DISARMED. But there will be no siren sound.

Press # + Quick Exit

**Note:** In default, all Wired Zones are in "Disable" mode.

### Wired Zones Programmable Delay

A programmable delay time can be set for each of the eight wired zones. This is the delay time after which the system starts sensing the zone status. This delay works after Arming the system and if while arming any of the sensor/ zone is open, the system will not Arm.

Press "SET"

Enter Master Password (1234) + #

Keep Pressing 2 to select "Wired Intr Dly"

Press #  
 Press 2 to select wired zone  
 Press #  
 Back Space  
 Enter the delay in seconds in 2 digits (01-60)  
 Press #  
 Press Quick Exit  
 Press Quick Exit

### Wired Zones Sensing Delay

In default, system senses 100ms contact break as Intrusion. This time can be programmed from 10ms to 750ms. This helps in avoiding false alarms caused due to short spikes in wiring.

Press "SET"  
 Enter Master Password (1234) + #  
 Keep Pressing 2 to select "Wired Zn Delay"  
 Press #  
 Back Space  
 Enter Time delay in milliseconds in 3 digits (010 - 750)  
 Press # + Quick Exit

Default: 100ms

### Precautions

- **While installing any Wireless Sensor, do not open the Antennae of Main Unit or the Sensor. The distance of the Sensor from Main Unit should be such that it works without opening either of the Antennae.**
- Check working of all the sensors, built-in siren, the auto dialing at regular intervals.

### Trouble Shooting

**Problem:** System not dialing on Telephone line when any sensor is triggered.

- Reasons could be:
- System is not Armed.
  - There is no Telephone number entered.
  - The sensors or the detectors are incorrectly installed, or the distance is too long between sensors/detectors and main panel.
  - ID code not matching between the sensors and the main panel.

**Problem:** False Alarm from PIR.

Reasons could be: There are many PIR of different quality. In the summer, a PIR can get triggered due to high Temperatures and variations. They can also get triggered due to the movements of curtains or mouse or pets.

- Solution:
- Choose the PIR with better quality.
  - Install the PIR in a different place.
  - Shorten the detecting area of the PIR.

**Problem:** The Wireless Remote does not work.

- Reasons could be:
- The power of the cell has gone low.
  - ID code not matching between the remote controllers and main unit.
- Delete the Wireless Remote and register again as explained in this manual.

**Problem:** The Sensing Distance is too short between the Wireless Sensors and the Main Unit.

- Reasons could be:
- Some other transmitting equipment in the area could be effecting the wireless range of the system
  - The Mains AC voltage is too low or the battery of the Wireless Sensor is low.

**Problem:** Siren not working.

- Reasons could be:
- The wires to the siren are short or broken.
  - The Siren Hooting time might be set at 00.
  - The +ve / -ve wires of the Siren might be connected in reverse polarity.

### Technical Specifications

Input	AC 100V to 280V
Frequencies used / Modulation Type	866 MHz / ASK
Distance covered by wireless sensors	Approximate 300 ft in open area.(In case of SW / FSW it is 250 ft)
Standby current	26 mA at 12V DC
Working current	43 mA at 12V DC without Siren 506 mA at 12V with Internal Siren
Ambient Temperature	10°C to +45°C
Ambient Humidity	95% Maximum
Power Adapter	12V DC 1A
Built-in Battery Backup	Rechargeable 7.4V 500mAh Lithium Battery
Capacity	Can connect to 75 Wireless Sensors. (including Wireless Remotes & Signal Repeaters). Has 8 Wired zones & each Zone can connect to unlimited Wired Sensors as long as the total resistance of the Sensors and the wires is

	less than 200 Ohms.
GSM Module	Dual Band - GSM 900 / DCS 1800 MHz RF Out Put: 33dBm / 30dBm RF Receive Sensitivity: < 1108dBm Operating Volatge:4.2V Support SIM Card: 1.8V/3.0V

## Terms of Warranty

Copper Connections Pvt. Ltd warrants that this product is manufactured under stringent quality standards, making it free from defects in material and workmanship, as per the following terms and conditions:

1. The limited warranty for the system is valid for a period of twelve months from the date of purchase or fifteen months from the date of manufacture which ever is earlier.
2. The limited warranty extends only to the original consumer/ purchaser of the product and is not assignable or transferable to any subsequent purchaser/ end user.
3. During the limited warranty period, Copper Connections Pvt. Ltd or its authorised service network will repair or replace, at Copper Connections Pvt. Ltd option, any defective product or parts thereof with a new or factory rebuild replacement items and return the product to the consumer in working conditions. No charge will be made to the consumer for either parts or labour in repairing or replacing the product. All replaced parts shall becomes the property of Copper Connections Pvt. Ltd.
4. Repaired product will be warranted for a balance of original warranty period.
5. Upon request from Copper Connections Pvt. Ltd or its authorised service center, the consumer must provide purchase receipt or other information to prove the date and place of purchase.
6. This Burglar Alarm System (like any other commercial or residential alarm system) does not guarantee protection against burglary, fire or other emergency because of variety of reasons.  
A properly installed and maintained system may reduce the risk of a burglary, robbery, fire or other events, but it is not an insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result.
7. In no case shall seller be liable to anyone for any consequential or incidental damages for breach of this warranty, even if the loss or damage is caused by the seller's own negligence or fault. Consequently, seller shall have no liability for any personal injury, property damage or other loss based on a claim "The product failed to give warning / alarm". However, if seller is held liable, whether directly or indirectly, for any loss or damage arising under this warranty or otherwise regardless of cause, seller's maximum liability shall not in any case exceed the purchase price of the product.
8. The consumer shall have no benefit or coverage if any of the following conditions are applicable:
  - a) The product has been subjected to abnormal use, abnormal condition, improper storage, exposure to excessive Temperature, moisture, dampness or fire etc., unauthorised modifications, unauthorised connections, unauthorised repairs.
  - b) Copper Connections Pvt. Ltd was not notified by consumer of the alleged defect or malfunction of the product during the limited warranty period.
  - c) The product was used with or connected to equipment not fit for use with Copper Connections Pvt. Ltd system or used in other than its intended use.
- d) INCASE HIGH VOLTAGES APPEAR ON EARTH.**
- e) THE DAMAGE IS CAUSED BY LIGHTENING OR DUE TO SPIKES/ SURGES/ HIGH VOLTAGES FROM AC MAIN SUPPLY.**
9. The consumer may contact the authorised dealer to call the service personnel for carrying out repairs or maintenance and the same would be attended within a reasonable response time assigned to the dealer. The consumer will be billed for parts or labour charges not covered by this limited warranty.
10. The consumer will be billed for parts or labour charges not covered by this limited warranty.
11. If the product is brought to Copper Connections Pvt. Ltd for repairs, after the warranty period , Copper Connections Pvt. Ltd normal service policy shall apply and customer shall be charged accordingly.
12. In no event shall Copper Connections Pvt. Ltd or their authorised dealer be liable for special or consequential damages or any delay in the performance of this warranty due to causes beyond their control. Copper Connections Pvt. Ltd shall not be liable for incidental or consequential damage or a loss of anticipated benefits or profits, loss or impairment of privacy of conversation, work stoppage or loss or impairment of data arising out of the use or inability to use the product. Company's liability in no event and under no circumstances shall exceed the price paid to the company for goods stated in the invoice.
13. Copper Connections Pvt. Ltd neither assumes nor authorises any authorised service center or any person or entity to assume for it any other obligation or liability beyond what is expressly provided by this limited warranty. All warranty information, product features and specifications are subject to change without prior notice.
14. Any dispute arising out of this warranty shall be subjected to jurisdiction of the arbitrator within the city of Delhi.
15. The decision of Copper Connections Pvt. Ltd on defects, damages etc shall be final and binding on the parties and no dispute regarding this, could be agitated before any civil court.

Part No. CC-BAS-G-24

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An ISO:9001:2008 Certified Company

**Copper Connections Pvt. Ltd**

195-196, DSIDC Complex, Okhla Industrial Area, Ph-1, New Delhi-110020. Ph: +91-11-40625543

[www.copperconnections.com](http://www.copperconnections.com)