

# ***EasyLoader***

## **AV-5000 LED, AV-5000 GSM**

**(For LED keypads)**

**Integrated Alarm Control panel &  
Communicator 8 zones**

***Installation and Operation  
Express Manual***

**Version 1.00**

***Edition I***

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This product is subject to continuous enhancements and therefore specifications may be changed or altered without prior notice

Item: 4765E\_LED (A3BKE)

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## Introduction series AV-5000 for LED keypad

The series 5000 alarm panels for LED keypads are simple, easy to customize and programming.

### Series 5000 models

This is an express manual for series 5000 alarm panels for LED keypad supplied as technical reference; with each alarm panel we provide a short format manual.

Model AV5009\_GRND is GSM only SMS messaging and dial, not supports PSTN dial.

Alarm panel AV-5009 supports 8 double zones, replace older models AV-3008, AV-4008, AV-4009.


### **For GSM versions refer to the GSM section.**

Panels with Gismo (GSM on board) are compatible with LED keypads: AV-701, AV-702. Not compatible with LCD keypads.

### **Tips to first time installer**

***Easy Tip***

If you are a first time installer, do not hook up any remote sensors at first. The most common confusion comes about when the **alarm will refuse to arm**, because one or few zones are “troubled”. Complete the power supply, siren, keypad and strobe wiring, and for the moment connect ALL the zone terminals to -V. This will simulate a system with all zones looped out through closed switches. The alarm is supplied already programmed with an “average” list of settings (default) and can be used straight away, a few of the program locations may have to be changed to suit the actual sensors and output devices used.

- 📖 Read this manual carefully, it looks complicated, but all the information is there
- 📖 Do not power up with battery! Use the DC power for start and testing. Default programming code is 1994, user 01 code is 1234 (01, 02...08)
- 📖 To start with: Hook up the keypad, connect all zones to -V or apply resistors for 8 zone mode, power-up by applying DC only
- 📖 In case the keypad displays '8' and keys not respond verify the minus (-V) wire and other keypad connection
- 📖 Fast test: Verify “Dial LED” Self Test at Initialization (STI) - Blinks for the first 50 seconds after power on, confirms panel is operative, from keypad wait to six beeps to confirm communication OK.
- 📖 Arming is possible if all zones are close, unless delayed zone/s. To test don't enable EOL zone/s.
- 📖 Arm and disarm the system, when the Status LED light steady (not blinking), enter your master code; 1234
- 📖 Try the hold-down functions. Hold each key for approximately 2 seconds
- 📖 Set the system time by holding-down key '0' then '1', set time in 24H format, blinking 'Set Time' stop
- 📖 The default programming is set for siren alarm device that requires 12V to alarm (Bell Mode)
- 📖 Make sure you are using the Earth terminal  for Grounding; it is not a -V (minus) terminal
- 📖 Typing six erroneous codes will lock the keypad keys for 30 seconds
- 📖 In program mode press 200 then 00 to display control panel type & software version

### **Revision changes**

Date	Version	Contains
05-DEC-2021	1.00	First published

## Keypad AV-701, AV-702 short description

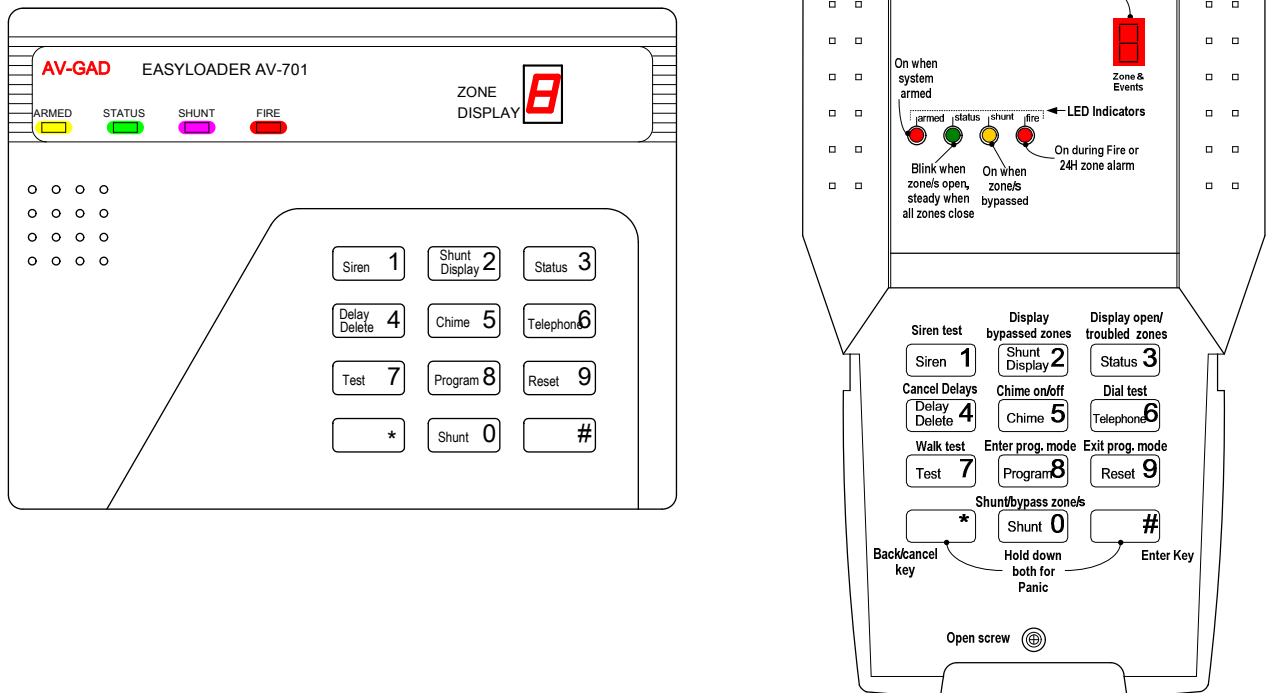


Figure 1: AV-701 & AV-702 LED keypad description

### Common Terms in this Manual

- 'SHUNT' and 'BYPASS' are interchangeable terms
- Program Mode - Enables features programming, alarm is disabled
- Use Mode – System is disarmed and not in alarm or program mode
- AV-701 and/or AV-702 are identical in operation

- Standard Keypad functions are accessed by pressing keys (short press). The 1 to 0 keys used for Arming/Disarming (ON/OFF), Zone Shunt (Bypass) and other programming functions.
- A short beep confirms each key press.

A short press on keypad key accesses the following special functions:

Chime **5** Instant Arming, by pressing key '5' (requires programming).

Shunt **0** Zone Bypass, by pressing key '0', followed by entering the Zone number/s Group Bypass explained in the keypad section.

For full details refer to the keypad section in this manual and the keypad manual.

The AV-5000 LED alarm panel board carries a specific identification label (refer to wiring diagram) that indicates the software version and panel type.

### Display control panel model and software

Enter Programming Press 200 and then 00, keypad display control panel type and software version.

First set shows the control model, then software version, then the software date.

### Warranty and technical support

If end user or a person on his behalf change product, wrong wiring or programming our product he do so on his own risk, product warranty is void is such case.

Av-Gad Systems Ltd can't technical support such customers, contact local technical or installer. Warranty terms are published separately.

### About electronic fuse Av-Gad use

Series 5000 power and siren/s outputs are protected by automatic reset able (PTC) electronic fuses, read below overview to get familiar with this fuse type.



### Electronic Fuse Overview

The Electronic Fuse device included as a series element in electric circuit. In response to an over current it protects the circuit by going from a low-resistance to a high-resistance state that reduces the current to a level that's safe for the circuit elements. The change in resistance is the result of a rapid increase in the temperature of the device. Like traditional fuses, Electronic Fuse devices interrupt the flow of dangerously high current. However, unlike traditional fuses, they automatically reset after the fault cleared and power to the circuit removed. Because they are solid-state, Electronic Fuses are also better able to withstand mechanical shock and vibration, and provide reliable protection in a wide variety of applications. In case of over current, carefully touch the fuse body (yellow round disc), hot body means the Electronic Fuse in protection mode, disconnect the load and wait 2-3 minutes until the fuse body get cooler.

## 2. Wiring Devices Alarm Panel

### 2.1 AV-5000 Zone Wiring

The AV-5000 provides two ways of zone wiring: None EOL (EOL = end of line) resistor loop (factory default), EOL resistor loop only for zone 4 and 8. The EOL loop protects the zone lines against tampering.

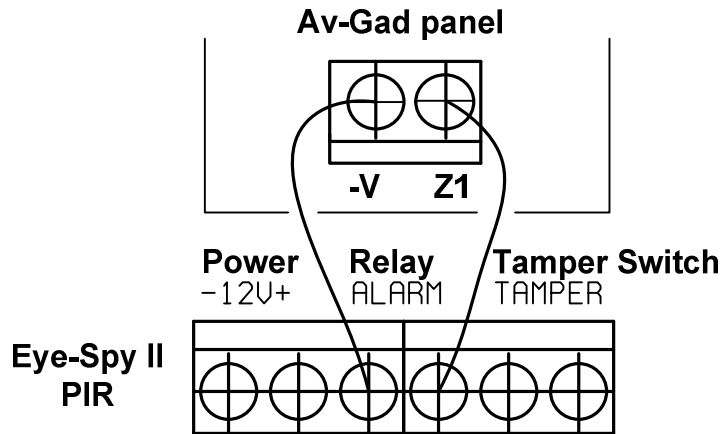


Figure 2.1: None EOL mode zone wiring

### 2.2 Tamper per zone & EOL wiring

Tamper alarm per zone is not available with AV-5009 in eight (8) zones mode. The -V is common for EOL resistors.

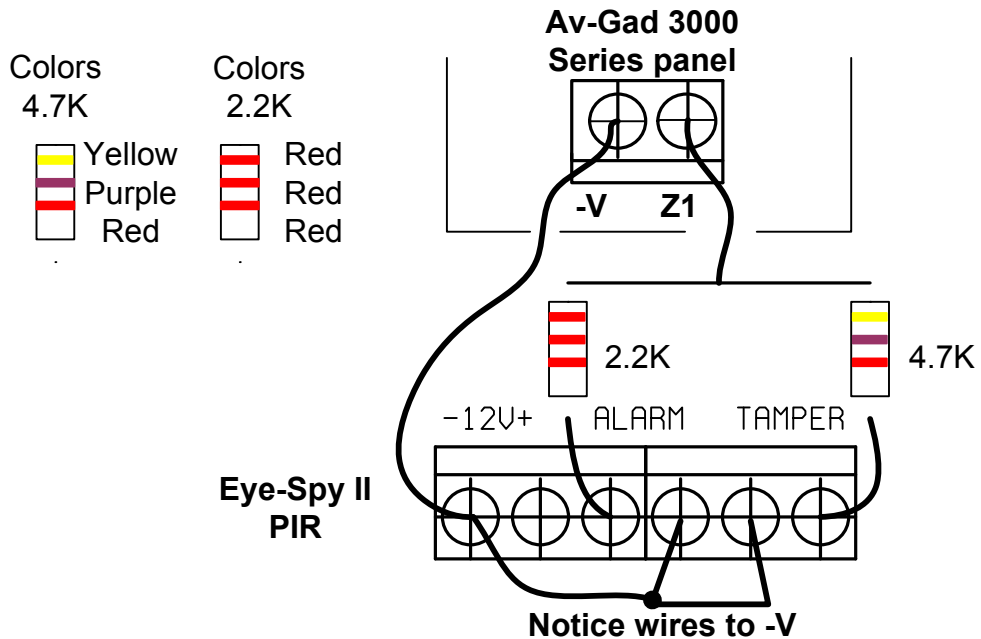


Figure 2.2: EOL mode zone wiring

## 2.3 EOL Zone Wiring

The AV-5009 factory default is 8 zones none EOL zones. If EOL mode is required move jumpers as shown in figure 2.2. The zones are referred to –V.

If zone 4 or 8 selected as EOL type add in series with the 2.2K (zone 4) or 4.7K (zone 8) resistor and the sensor contacts (relay. Refer to figure 2.3.

## 2.4 Keypad Wiring

Up to three AV-701 or AV-702 Keypads can be connected to AV-5009. When few keypads are connected, wire each one directly to the panel, not from one keypad to the other. Refer to drawing in next page.

When using few keypads connect them in parallel. Each keypad has four terminal wires:

- (+) Power, connect to + Aux. Power
- System Data, connect to OR
- (-) Power, connect to – Aux. Power
- System Strobe, connect to YE

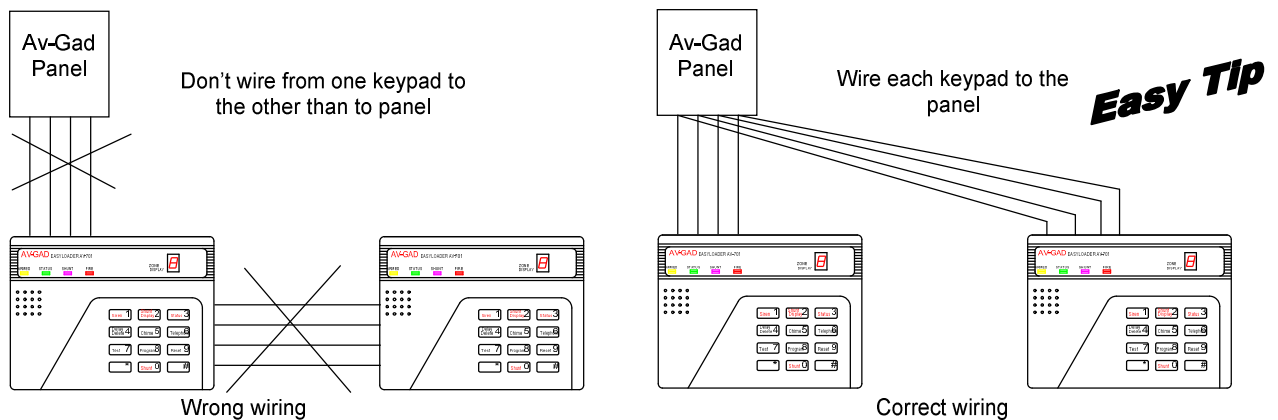


Figure 2.3: Wiring more than one keypad

Wire length for each Keypad should not exceed 100 meters (when using 0.5 mm<sup>2</sup> wires).

For longer than 100 meters (320 feet) keypad wiring, contact manufacturer's consultant. For AV-701/702TP (keypad with tamper) run five (5) wires. Connect the TMP terminal to a 24H or Tamper zone.

Power at Keypad should be a minimum of 11.5 Volts.

**Easy Tip**

**IMPORTANT! Never run Keypad wires alongside telephone wires, high voltage wires, or transmitting antennae. Wire the keypad wires separately and not in same cable with other devices (telephone, PIR etc.)**

For proper connection, refer to wiring diagrams at the end of the manual.

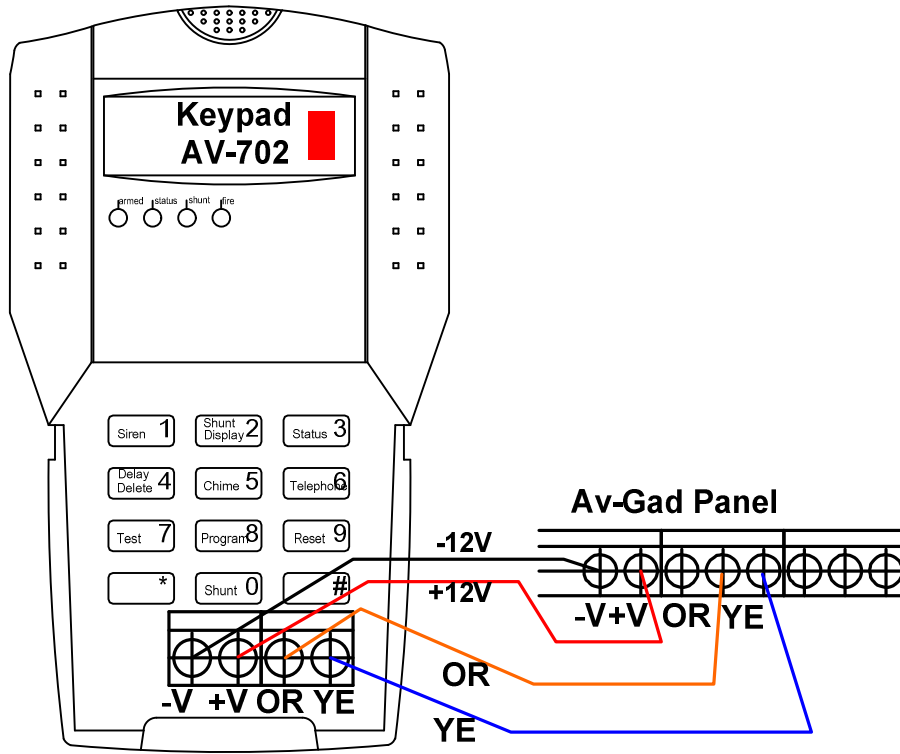


Figure 2.4: Wiring LED keypad to control panel

Wiring terminal of keypad type AV-702 (in above figure) and for AV-701 keypad are identical.



## 2.5 Motion detector PIR as Eye Spy II wiring

The PIR (Passive Infra Red) detector is a motion sensor that upon detection opens the relay contacts, this activated the alarm panel. In higher security installation it's recommended using EOL resistors that protect the wires from being tampered.

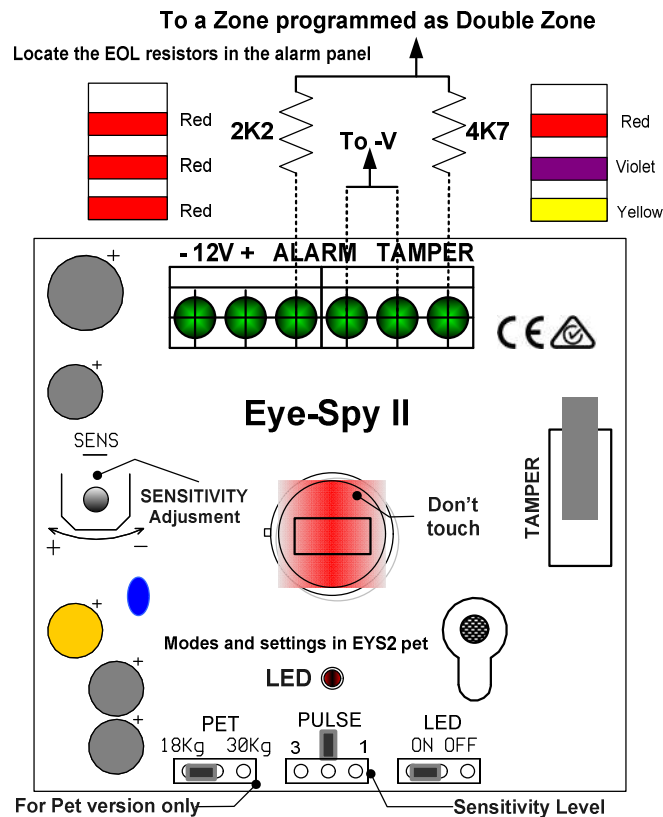


Figure 2.5: Wiring PIR or similar detector to control panel

## 2.6 Siren Wiring

The siren output is protected by Electronic Fuse. Av-Gad Bella sirens are recommended for high efficiency and low current consumption.

The 5000 series is compatible with 12V DC sirens at **maximum 0.3A**. Higher current damage the siren driver.

Connect the Tamper switch to 24H zone (requires programming).

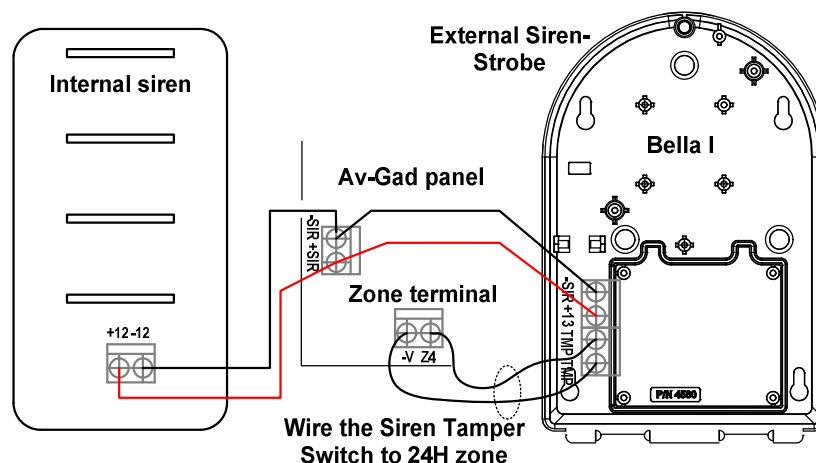


Figure 2.6: Wiring sirens to control panel

**Warning, siren/s current should not exceed 0.3 Ampere**

Bell mode is factory default; in Bell mode install a 12V DC siren, which contains sound driver or electronic modules that powered by 12V DC.

Bell Mode converts Siren outputs into 13.6V DC outputs (no sound is issued).

Bell mode is applicable for driving self-powered sirens or bells, or combined sirens and strobes.

### Siren configuration programming address

Address	Feature	Explanation
068	Siren test/beep upon arming	Sounds a short beep to indicate arming
072	Bell mode	Send 12V DC to drive the siren
073	Self contained siren	Send 12V at idle, drop to zero V at alarm
092	Siren 3 beeps when disarm by key	Sounds 3 short beeps to indicate disarming
070, 071	Siren duration times	Configures the siren times

## 2.7 Back-Up Battery

Make sure to connect the Battery in the **correct polarity! Wrong polarity may cause explosion.**



The system's Red wire is the positive pole (+) and the Black wire is the negative pole (-).

- The battery will provide power back up in case of AC power failure.
- Connect back-up battery to ensure proper operation of the system.
- Recommended battery: 7 Amperes per Hour (AH), 12V (sealed lead acid) type.
- A 7.2 AH battery backs up the control panel and a single keypad for approximately 6-8 hours, depends on total system current consumption.
- Series 5000 panels accommodates a battery of up to 12V–9 AH maximum.
- An Electronic Fuse rated at 2.5A protects the battery.
- Add an external power supply for installation with over three LED keypad and/or if over ten high current sensors alarm system. Refer to Av-Gad AV-21, AV-40 power supply and charger.

**The 4AH–12V battery fits in the ABS box, but the door is too tight, why? Note the following:**

- 1. Notice two small bulges on the ABS box door (designed for supporting and hold the battery) may displace the battery; place the battery between the bulge and not on it**
- 2. Make sure that the battery is not laying on the income wiring**

## 2.8 DC Power Supply 5014TER

Each alarm panel **requires DC 14V**, factory item 5014TER. Check DC or solar voltage level before connecting the DC power source or solar.

When using DC sources make sure to connect the power in the correct polarity! When solar panel removed connects other power source like 5014TER. **Don't connect higher voltage then 14V DC power source to prevent internal heat up and total lost.**

When wiring DC power supply to alarm panel; the (+) connect to the **upper** AC wires terminal and the (-) to the **lower** AC marked terminal. Verify the ground is connected.

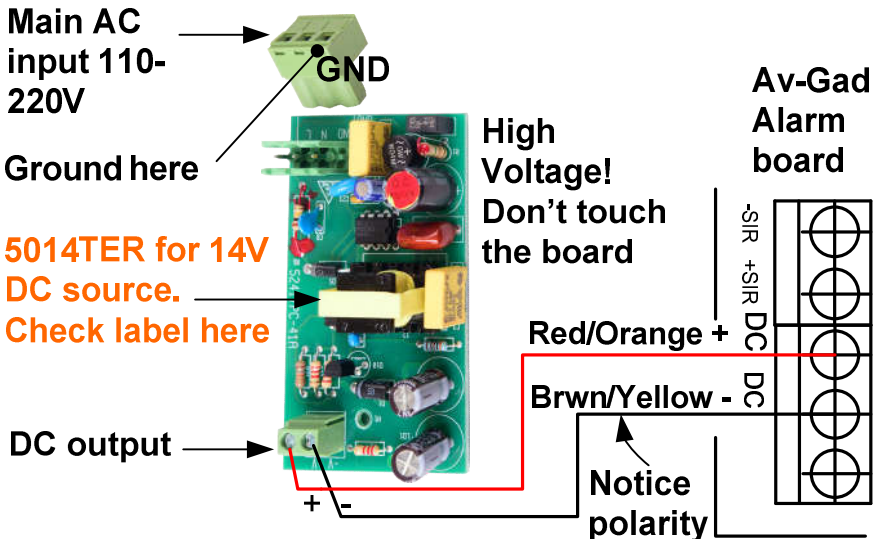


Figure 2.7: Wiring power supply 14V maximum

**3. Telephone Line (Central Station no available)**

**3.1 Telephone Line**

Dialing sequence: 1<sup>st</sup> dials to central stations (not available in ver 1). 2<sup>nd</sup> To standard phones (wired or mobile). If central station not programmed sequence is bypass.

It's recommended to connect the control panel to an independent telephone line, if a device is in parallel with the alarm panel, this may grab the call first (like a message answer/fax) during remote up and download and remote DTMF. Don't connect fax or answering machine in parallel on the same telephone line.

Dialing mode is programmable (refer to programming sheet addresses 084). Connect the telephone line to 'TEL-LINE' terminal, if handsets connected to same line connect them to 'PHONES', when system attempts to dial the 'PHONES' is disconnected.

Do not connect to ISDN or other digital telephone system. Most ISDN converters contain an Analog line; connect the Analog line of the ISDN to the panel TEL-LINE terminal. If the PSTN is DSL/ADSL type connect a dedicated lien filter supplied by local Telecom Company, or Av-Gad AV03 high end ADSL filter.

**In tropical areas order the Surgo protection module or specific alarm models to fit.**

**3.2 AV-5000 with GisMo module**

The GisMo module sends SMS for alarm and other events like AC fail, low battery, through GSM network

To identify the GSM; The Gismo PCB board (refer to fig. 1) with antenna plug located at the let-upper side in the main control panel case. For full detail refer to the AV-5000 GSM appendix.

For dedicated central station applications the GisMo sends SMS direct to patrol or to central control and patrol man. Central station software is not included.

### 3.3 SVM – Synthesized Voice Module SVM-40, SVM-42

SVM-40, SVM-42 models are not working with GisMo (GSM adapter) panels.

### 3.4 Telephone and SMS address

#### Telephone numbers

There are 13 telephone numbers, 16 digits each.

No limitation on the numbers of pauses in a telephone number. The programmable digits are: 0,1,2,3,4,5,6,7,8,9,\*,# and P for Pause.

#### Telephone numbers addresses:

009 SMS Destination number #1 (used to report events)

010 SMS Destination number #2 (used to report events)

011 SMS Destination number #3 (used to report events)

012 SMS Destination number #4 (used to report events)

(The Destination numbers are not dialed by the panel - they are included in the SMS)

013 Regular Telephone number plus follow me option #1

014 Regular Telephone number #2

015 Regular Telephone number #3

016 Regular Telephone number #4

017 Regular Telephone number #5

018 Regular Telephone number #6

## 4. System Codes

### 4.1 Description of main codes (8 codes)

Up to eight (8) different Arm/Disarm codes and one installer (dealer) code are available; each code consists of 1 to 6 digits. Factory Installer **programming code is 1994**. Installer (dealer) user is 09.

Do not use '0' as the first digit in a code.

Do not use '5' (five) as first digit in a code number if *Instant Arming via key 5* was programmed.

User code must not start with the same numbers as the installer programming code (1994).

Do not use same codes or same first 3 digits for different codes. For example if user code No .1 is 1234, other user code cannot be 1234.


1. **Default Arming and Disarming Code '1 2 3 4'** (Code No. 1) - Use '1234' as Arming Code (also called Owner Code). Use code No. 1 to program a new user code. Upon setting new Arming & Disarming code, default user code '1234' automatically replaced.
2. **Code number 7 for access control** (requires programming) - Arm/Disarm code No. 7 activates the ON output, which is used for such functions as opening an electric lock. Code number seven (7) is operative during ARM and DISARMS modes, confirmed by seven short beeps. Code 7 drives the ON output as 'Momentary' output. Pulse duration is 5 seconds.

3. **Code number 09 programming Code (Installer Code)** - Code No. 09 enables entering into programming mode (system features programming) at Installer level. The factory default programming code is '1 9 9 4.'  
The programming code may be installer-programmed. Installer code does not Arm or Disarm system. Refer to setting new programming code section.
4. **User Codes** - (Arming and Disarming code). Each code consists of 1 to 6 digits. System provides eight user programmable codes.
5. **Key Visual Feedback** - Visual 'feedback' from the keypad display upon entering of code. This feature indicates the code entry progress and is most practical when the keypad buzzer is disabled at Group Bypass mode, or if selected by programming. Code entry by user or installer is confirmed at keypad display. Display segments will light up clockwise, indicating the sequence of the digits entered.

**Typing six erroneous codes will lock the keypad keys for 60 seconds**

#### 4.2 Enter user programming & Set New User Code

In user programming mode user is able to: Set clock, set SMS and dialer number (not CS numbers), and change user codes 01 to 08.


1. Hold down key 
2. While the four LEDs are blinking, enter code No. 1 (factory default 1 2 3 4)
3. If code is valid, u (small U) is displayed
4. The 2 left-most LEDs blink to indicate that the system is waiting for a new user code index (user 01 to 08) to be entered
5. Enter the code index from 01 to 08 (01 for code No. 1; 02 for code No. 2, etc.)
6. The 3 right-most LEDs blink to indicate that the system is waiting for a new code (from 1 to 6 digits) to be entered. **The code is voided if user code not entered.**
7. Enter the new code; new code and user index 'u' is displayed for confirmation. If during 60 seconds data not entered system automatically escape from code setting.
8. To quit code setting hold down key 9.

#### 4.3 SMS and dialer number entry by user

For SMS number: Hold down "6" then hold down "1" (SMS No. 1), enter the number, same for SMS numbers 2, 3, 4.

For telephone numbers: Hold down "6" then hold down "5" (Telephone No. 1), enter the number, same for telephone numbers 2, 3, 4.


#### 4.4 Installer Programming mode & Code change (code 33)

1. Hold down key , while the four LEDs are blinking, enter 1994 (default code) "P" displayed, 2 left-most LEDs blinking.
2. While system is in installer program mode
3. Enter 099, u (user number) displayed, press 33 then the new programming code, U (big U) displayed to confirm
4. New code displayed for conformation. System reverts to Installer Programming mode.
5. Hold down key 9 to exit programming mode.

#### 4.5 Delete a User Code

1. Hold down key 

2. While four LEDs are blinking, enter code No. 1 (default 1 2 3 4)
3. To erase an existing code: Enter user index number (01, 02, 03....), Hold Down simultaneously the '\*' and '#' keys, followed by #, E (erased) will be displayed. The Master (code number 01) cannot be erased.

Instant Arming by key number  is a programmable feature, which may cause erroneous Arming. It is recommended to *disable this feature*. Do not use 5 or 0 as the 1st digit of the code

## 4.6 Auto Arming & Passive Auto Arming

### **Programming the time for Automatic Arming (in user programming mode):**

Enter to **user** programming mode. Hold down '8' ('A' is displayed), then 1234.

Setting systems clock when Auto Arming enabled: Hold down key 1 and enter the time in 24H format. Hold down key 1 to display the system clock.

To set Auto Arming Time: Hold down key 8 and enter the time in 24H format. Hold down key 8 to display the system clock. To display, hold down '8' and wait. To disable Automatic Arming program 0000.

If Automatic Arming is programmed, the system time can be set only via **User Programming Mode:** Hold down key "1" and then HHMM - setting system time, hold down "8" and then HHMM - setting auto arming time (HH=hours, MM=minutes).

Automatic Arming will operate even if the control panel is currently in alarm.

When the Automatic Arming programmed time arrives; the system starts at a 30-second countdown. An 'A' is intermittently displayed and beeps are sounded at the keypad.

During the countdown period, to abort Automatic Arming entering a valid user code (not code No. 7, if used to 'open' a door). If Auto Arming selected and Group Bypass, consider Group 2 is bypassed at auto arming.

Passive auto Arming is activated if all zone been close for XX (05 to 99 minutes), the XX time is programmable at address 048.

## 5. LED Keypad & Hold down Functions

For full description of the LED keypad installation, text editing and more details refer to the keypad manual.

### 5.1 Hold-Down Functions

- Holding down the key for approximately 2 seconds accesses hold-down functions
- Hold down functions are confirmed by a long beep

## Hold-Down Functions:

**Siren 1** Key 1 → **SIREN TEST**

**Shunt Display 2** Key 2 → **SHUNT DISPLAY**  
Displays shunted zone(s).

**Status 3** Key 3 → **STATUS DISPLAY**  
Displays troubled or malfunctioning zone(s), open zone/s displayed

**Delay Delete 4** Key 4 → **DELAY DELETE (INSTANT PROTECTION)**  
Cancels Entry delays in zones selected as 'Delayed' zones. All zones become instant zone. Delay Delete is displayed in confirmation. Instant Protection becomes effective only if System is armed within 20 seconds following hold-down of key 4.

**Chime 5** Key 5 → **DOOR CHIME**  
Enables Chime when opening zone. Door Chime operates on Chime-programmed zones. Hold-down key 5 enables and disables the function. Chime mode is confirmed by 'c' display on keypad.

**Telephone 6** Key 6 → **DIALER TEST & FOLLOW-ME PROGRAMMING**  
Test is performed in 'DISARMED' mode.

Function	Via AV-7XX LED Series Keypad
Displays Programmed Follow Me Telephone Number Without Dialing	Hold-down key [6]
Follow Me telephone number programming	Hold-down key [6] then hold-down [6] again
Programmed Telephone number Verification (Display and Dial 4 telephone numbers)	Hold-down [6] then hold-down [7], number not displayed

Display programmed telephone numbers without dialing: Within few seconds, text will appear on the display, followed by the (programmed) 'Follow Me' telephone number. When programming telephone numbers which require an inter-digit delay ('Pause') during dialing; Hold-Down key [0], a momentary Pause will be displayed (Delay duration is 3 seconds).

The 'Follow-Me' number will be displayed, or displayed and dialed, followed by display-and-dial of up to three additional telephone numbers.

**Telephone 6** and **Siren 1** Address 092 enables 'Answer now' feature, the system answers remote computer after one ring. This feature is important if the control panel programmed not to answer incoming calls (programming of 21 rings or greater at address 091). To enable 'Answer Now' feature program 01 at address 092.

Hold-down key 6 and then key 1, before the computer and modem connect (dial) the control panel. The panel will acknowledge the command with two beeps and display an 'A.' The feature remains active for 5 minutes after entered, enabling to remotely program (from remote computer) the panel.

Other possibility to connect to a system connected on same line with a fax or answering machine is to use the "Answer machine bypass" feature.

Test **7**

#### Key 7 → **FAULT FIND**

- Fault Find enables testing of all detection devices.
- Fault Find mode is accessible only during 15 seconds following System Disarm.
- 24H, Fire or Panic alarm will stop Fault Find mode.
- Hold down key 7.
- Open and close each zone to test the zone regularity. A one-second beep confirms detection of zone opening. Three beeps indicate zone closing.
- Quit Fault Find mode by arming the system.

Program **8**

#### Key 8 → **PROGRAM**

Key 8 accesses 'Program' mode and user code programming (followed by password)

Reset **9**

Key 9 → **RESET**. 'Reset' performs the following functions:

1. Cancels last Keypad entry
2. Stops the communication test (triggered by hold-down key 6)
3. Activates output 2 for resetting the Smoke Detector (requires programming)
4. Resets Day Zone Alarm at Keypad
5. Exits Programming mode (features, telephone numbers, etc.).  
To exit programming mode hold down key 9.

## 5.2 Group Bypass (home mode)

Group bypass provides bypassing of few zones by short keys entry.

Group-Bypass is operative only if System is armed within 60 seconds from the entry of this feature. Yellow LED will flash and 'h' (Home) displayed for 1 second in confirmation.

Shunt **0**

Siren **1**

Shunt Display **2**

then hold-down **1** or **2**. **Group Bypass with Arming.** Two bypass groups are available. Set Group Bypass at address 232-236; after selecting the Group Bypass, system is armed (without code entry), followed by Red LED (arm) and Orange LED (indicates zone/s bypassed) on.

To bypass 1<sup>st</sup> group: Press "0" and hold-down "1", "A" is displayed, Yellow LED will flash  
To bypass 2<sup>nd</sup> group press "0" and hold-down "2", "b" is displayed, Yellow LED will flash  
To bypass both groups press "0" and hold-down "0". "C" is displayed. Yellow LED will flash, then the Armed LED lights-up in confirmation.

When Group Bypass is selected, the sounder and LEDs react as follows:

Shunt LED stops blinking 8 seconds after Arming, (prevents LED light from disturbing sleepers near the keypad).

There is no exit/entry delay-warning sounder; also the keys beep disabled (prevents noise considering sleepers). At Group Bypass mode the keys entry are not generating keypad's beeps.

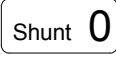





There is no "beep" at the keypad until an alarm occurs, or until Group Bypass is canceled.


When the keypad LEDs turns off after Arming (requires programming), touching the keypad will activate the LEDs for 5 seconds.

### 5.3 Key Zero Hold-Down functions & Events History

To get last 10 events by SMS: Hold down 6 than hold down key 4.

1.  Key 0 **Concise Alarm History**: Hold down key '0' to display the last alarm sequence.

2.  and  **Detailed Events History (requires programming)**: Hold down key '0' and again hold down key '0' to display up to 36 events, including: System opening and closing by user number, opening or closing time, alarming zone and AC fail. By holding-down key  twice, 3 LEDs start blinking, to indicate a special operation mode. The events are displayed from the most recent event to the oldest.

By holding-down key  twice, 3 LEDs start to blink, indicating a special operation mode. The events are displayed from the most recent to the oldest event. Erasing both detailed and short history; at program mode press 200 then 04.

Events at AV-701/2 keypad are displayed as following:

XX - Event number (from 01 to 250), then HH\_MM (Hour and Minutes) Event Time, Event Type (alarm or opening/closing).

Translate the display as following:

'u' (user number 1 to 8),

'o' or 'c' - opening or closing

Zone causing alarm will blink twice

tX - Tamper alarm from zone causing the alarm (X)

H - Panic Alarm

Events at AV-701/2 keypad and computer events log displayed as following:

'CE' - Communication to central station failure

'PE' - Keypad locked because Password Error

'Lb' - Low battery

'CC' - Telephone line fault

**Note:** Three lines (≡) indicate power fail. During history events AC power fail is displayed.

#### For example:

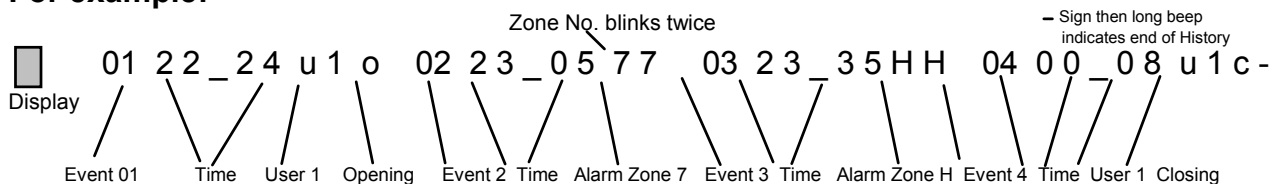


Figure 6: Alarm Events as Displayed on keypad

During zone number display, keypad display blinks twice to indicate the zone number.

## Browsing through Events History

Keys used for browsing:

- Shunt Display 2 ➤ Skip forward to next event     Program 8 ➤ Skip backward to previous event  
Chime 5 ➤ Display current event again     Reset 9 ➤ Cancel History Event Mode and exit

Upon display of last event, if an attempt is made to move forward (key 2), a blank sign – is displayed, along with a warning beep indicating that it is the last event. Key 8 may be pressed to move backward. If no key is pressed, Event History stops and system returns to Use mode.

When starting History Events mode the events are displayed from beginning to end without any break, until any browsing key is pressed.

**During History Events display, browsing system will respond only to alarm or panic. Arming is denied. Alarm or Panic during History Events display will quit this mode and system will set to Use Mode (normal operation mode). Clearer History events are available when using the download.**

For easier detailed alarm history, download events log from panel to the remote computer. History queue log of up to 250 events is displayed at panel keypad and in the *EasyLoad* PC software (not available for version 1.10).

### 5.4 LED Dual Keys Hold-Down Functions

1 <sup>st</sup> key hold down	2 <sup>nd</sup> key hold down	Function	Note
Shunt 0	Shunt 0	Display alarm and events history	
Shunt 0	Siren 1	Set system clock in 24H format	Like 23:10
Shunt 0	Shunt Display 2	Set system date	DD-MM-YY. Like 01-02-12
Shunt 0	Delay Delete 4	Display last alarmed zones	
Shunt 0	None	Display last alarm	One alarm only
Telephone 6	Delay Delete 4	Send last 10 history events via SMS	GSM model
Telephone 6	Chime 5	Test SMS reporting	
Telephone 6	Telephone 6	Program the Follow Me telephone. Tel 1, location 013	
Telephone 6	Test 7	Test dialer	
Telephone 6	Program 8	Test communicator (to central station)	

### 5.5 Keypad Functions at location 200

Default means “Factory default”.

In programming mode enter 200, then the required function as detailed below.

Location	Function
200 and 00	Display control panel type & software version
200 and 04	Erase (reset) the events history

200 and 05	Restore all codes to factory default
200 and 08	Set all zones to none EOL (cancels double zones)
200 and 21	Reserved
200 and 22	Reserved
200 and 69	Restore program to default

## 5.6 Keypad Main Operations

Function	Keypad Operation	LED's	Buzzer	Display
Siren Test	Hold-Down	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	
Display bypassed zones	Hold-Down	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input checked="" type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	
Display troubled zones	Hold-Down		Long Beep	
Delays Delete	Hold-Down	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	
Chime On and Off	Hold-Down	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	
Follow Me Tel. Display	Hold-Down	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	
Follow Me Tel. Programming	Hold-Down	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input checked="" type="checkbox"/> FIRE <input checked="" type="checkbox"/>	Long Beep	
Enable Answer Now Mode	Hold-Down		Long Beep	
Test Zone (close all zones)	Hold-Down		Long Beep	
Enter to Installer Program	Hold-Down & 1994	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input checked="" type="checkbox"/> FIRE <input checked="" type="checkbox"/>	Long Beep	
Enter to Program User code	Hold-Down & 1234	ARMED <input checked="" type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	
Reset	Hold-Down		Long Beep	
Short events log history	Hold-Down		Long Beep	
Time setting required	Hold-Down	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	TIME
Date setting required	Hold-Down	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	DATE
Panic – Hold-down both keys	Keypad Panic	ARMED <input checked="" type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	
Bypass zone 3 (example)	&	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input checked="" type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	
Group bypass (home mode)	&	ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input checked="" type="checkbox"/> FIRE <input type="checkbox"/>	Long Beep	
Codes Restore (at power-up)	Keypad Panic		2 Beeps	
Arming with Low Battery		ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	3 Beeps	
Arming with troubled zone		ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	5 Beeps	
Indicated that AC when Armed				
System Arming		ARMED <input checked="" type="checkbox"/> STATUS <input type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	1 Beep	
System Disarming		ARMED <input type="checkbox"/> STATUS <input checked="" type="checkbox"/> SHUNT <input type="checkbox"/> FIRE <input type="checkbox"/>	3 Beeps	

### Browsing through Events History

When starting History Events mode the events are displayed from beginning to end without any break, until any browsing key is pressed.

**During History Events, browsing system will respond only to alarm or panic, Arming denied. Alarm or Panic during History Event mode will quit this mode and system will set to Use Mode (normal operation mode).**

For easier detailed alarm history, use the downloaded from panel to remote computer. History queue log of up to 250 events are displayed at panel keypad and in the *EasyLoad PC* software.

4.  and  **Display and Setting of System Time:** Hold down key '0' and then hold-down key '1,' 3 LEDs will blink. System time displayed in 4-digit format: 1230. To set new time, hold down key '0' and then hold down key '1.' Do not wait for time display; enter the new time in 24-hour format. The local clock time is not stored in system memory; clock must be adjusted after power-up. After powering-up system, time is reset to 00:00, 'h' will be displayed to remind user to set time; 'h' will disappear after setting the time. If Auto-Arming enabled the clock setting is form user Programming mode only, refer to Auto-Arming section.

For clock setting during winter/summer time changes (set by end user):

Hold down key "0" press key "1" then again 1 - increases hours by one

Hold down key "0" press key "1" then key "0" - decreases hours by one

5.  and  **Display and Setting of System Date:** Hold down key '0' and then hold-down key '2'; 3 LEDs will blink. Enter date: 'dd mm yy.' The up and download PC software displays time and date, along with event history.

The local date is stored in system memory; adjust date after long power-fail.

Years 00 through 77 translated as 2000 to 2077

6.  and  **Concise History of Tampered Zones:** Hold down key '0' and then hold down key '3' to display the Tampered zone alarm sequence.

New alarm will create a new history event instead of old one.

7.  and  **Reset Events Memory (history):** Not available. Instead, during the installer-programming mode, clear history by command 200+04.

8.  and  **Display Last 2 Users:** Hold down key '0' and then hold down key 5 to display user number and System opening or closing time. 'o' is displayed for Opening (Disarming); 'c' is displayed for Closing (Arming).

9.  Press (not hold-down) and press  (not hold-down), will display '-' to cancel all Bypassed Zones.

Keypad Panic  Keys → **PANIC BUTTON**

Holding down \* and # keys will trigger Panic alarm. H will be displayed (zone 'H').

**To cancel Hold-Down function accessed by keys [0], [6] and [7]; Hold-Down key 9 (Reset).  
To quit zero hold-down functions, hold-down '9**

## 5.7 Keypad Sounder

The Keypad sounder (buzzer) enhances the use of system operation and serves as a local alarm device (requires programming).

The sounder emits sounds in the following instances:

OPERATION	SOUNDER RESPONSE
◆ Pressing of any key	Short confirmation beep
◆ Power up	Six beeps
◆ Hold-down functions	Long confirmation beep
◆ Faulty programming input	Long beep (+ 'E' display)
◆ Delayed Zone triggering	Three long beeps
◆ Exit delay starting (if programmed)	Warning beeps until the delay is over
◆ Completion of Arm/Disarm programming code	One long confirmation beep
◆ Programming Telephone numbers	Two confirmation beeps
◆ Completion of address programming	Two confirmation beeps
◆ Pressing 'Code 7' for driving door opening	Seven confirmation beeps
◆ Arming of System with Instant, Fire or 24H troubled zones	Five warning beeps + troubled zone display
◆ Feature programming	Two confirmation beeps
◆ Follow-Me number programming	Two confirmation beeps
◆ During alarm (requires programming)	Intermittent beep until alarm reset

When the buzzer is ON, it will sound while the keys "0" and "#" are being held down. When the buzzer is OFF, hold down the keys for 2-3 seconds, sounder feedback heard in this case only after releasing the keys.

The buzzer set ON at "Power On" and every time the keypad is in programming mode.

## 5.8 LED Indicators

AV-701, AV-702 Keypads: Four LEDs provide visual indication of System status, as well as confirmation of various modes.

### Keypad LED's indication

Armed LED-Red	AV-5000 alarm panel
Off	System Disarmed
Blink slowly	An alarm is triggered
ON steady	System Armed
Blink fast	Mode does not exist

<b>Status LED-Green</b>	<b>AV-5000 alarm panel</b>
<b>Off</b>	System Disarmed
<b>Blink slowly</b>	Some zones are open
<b>ON steady</b>	All zones OK
<b>Blink fast</b>	Some zones have been tampered

<b>Shunt LED-Orange</b>	<b>AV-5000 alarm panel</b>
<b>ON steady</b>	Some zones are bypassed
<b>Blink slowly</b>	Group bypass entered
<b>Blink slowly</b>	8 seconds after Armed with Group Bypass

<b>Fire LED-Red</b>	<b>AV-5000 alarm panel</b>
<b>Blink slow</b>	Warning before Fire alarm
<b>Blink fast</b>	During and after Fire alarm

Note: At alarm time Troubled Zones are displayed at the Keypad.

○ **Red ARMED/ALARM Indicator** - Lights up when system is armed, blinks after an alarm is triggered at any zone. Blinking indicates alarm history in memory.

○ **Green STATUS Indicator** - Blinks when zone/s are troubled and remains lit as long as zones are clear, rapid blinking during Tamper alarm.

○ **Yellow SHUNT (Bypass) Indicator** - Lights up upon zone bypass.  
(Note: may light automatically upon arming if Auto Bypass was programmed).  
The indicator also lights up and blinks if a Group Bypass was entered by pressing '0' twice.

○ **Red FIRE (Trouble) Indicator** - Rapid blinking when a Fire Zone is troubled.

○○ **Two LEDs Flashing (Left Most LEDs)** - In user code programming mode, rapid blinking indicates code or code index to be entered. In Installer programming mode, it indicates address entry.  
In Disarmed mode, the two left-most LEDs blinking + zone number display indicate 24H-alarm mode.

○○○ **Three LEDs Flashing** - In Disarmed mode, rapid blinking indicates AC power failure. AC power fail event is displayed in Events. In Armed mode, rapid blinking indicates system restored after AC Power Failure mode.

During programming Follow-Me Telephone Number, three flashing LEDs indicate to enter a new telephone number.

○○○○ **Four LEDs Flashing** - Upon holding-down key '8,' the system is ready for code to be entered. (Same LED indication when code is expected for Bypass via code).

## 7. Programming Sheet Version 1.00 LED

Factory Default Program marked with ( ); Blank Square means no default program

### Part 1: TELEPHONES & SMS Subscribers (00 = No, 01 = Yes).

Send SMS	SMS @ Close/Open	Period Test SMS	Max SMS sending	Time stamp SMS	
(00=No Yes=01)	(00=No)	(00=No)	(Max = 5) 2	(00=No, Yes=01)	
003	004	005	006	007	

← Feature  
← Default Set  
← Address Number

SMS Subsc'r 1	SMS Subsc'r 2	SMS Subsc'r 3	SMS Subsc'r 4	Dialer Telephone 1	Dialer Telephone 2
009	010	011	012	013	014

← Number Here  
← Address Number

Dialer Telephone 3	Dialer Telephone 4	Dialer Telephone 5	Dialer Telephone 6	C. Station Tel 1	C. Station Tel 2
015	016	017	018	None	None

← Address Number

Tel. 1 is also 'Follow Me', user can program this number by himself. Erasing phone number by hold down key 9.

Each Tel Number Maximum 16 digits or # and \*. At address 008 enter the SMS provider center number.

To insert \* in the phone number; Hold-down keys # and \* (as panic), 'A' will be displayed. For central phone systems add Pause during dialing hold-down key '0', add pause only at add 008, **not at** address 009, 010.

### Part 2: Main hold down commands

<p>Key 1 – Hold down test siren</p> <p>Key 2 – Hold down display bypassed zones</p> <p>Key 3 – Hold down display troubled zone/s</p> <p>Key 6 then 4 hold down – Last 10 alarm events by SMS</p> <p>Key 6 then 5 hold down – Test SMS</p> <p>Key 6 then 6 hold down – User programming dial phones 1, 2, 3, 4</p> <p>Key 6 then 7 hold down – Dial test by dialer</p>	<p>Set clock – Hold down 0 then 1, enter 4 digits HH:MM</p> <p>Set date - Hold down 0 then 6, enter 6 digits dd:mm:yy</p> <p>Enter to program mode – Hold down key 8, then 1 9 9 4 wait P to be displayed</p> <p>Exit program mode and user program mode</p> <p>Hold Down key 9</p>
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### 3. System Features & Times (00 = No, 01 = Yes)

Address	Feature	Default	Address	Feature	Default
↓	<b>Dialer Features</b>	↓	↓	<b>Arm/Disarm Key</b>	↓
041	Instant dialing on entry delay (0=No)	01	089	Use last zone (8 /16) as key input (0=No)	00
042	Siren time during dialer report (sec)	Reserved	090	Use last zone as Freeko key input (0=No)	Reserved
043	SVM 1 time during dialer report (sec)	Reserved	091	Key Arm with Home Mode Grp 1 (0=N0)	00
044	SVM 2 time during dialer report (sec)	Reserved	092	Siren 3 Beeps when Disarm by Key	00
045	Total dialer sound report time (sec)	Reserved	093	Reserved	
046	Inter calls pause for dialer (sec)	Reserved	094	Delay before reporting AC fail (minuets)	10
047	How many times dialer make a call	03	095	Activate Dialer reporting AC fail (0=No)	Reserved
048	Dialer delay before start dialing (sec)	Reserved		<b>Auto Arm, Code Restore</b>	
049	Test dial tone before dialing (0=No)	Reserved	096	Enter time for Self Arming (24H format)	00:00
050	Wait for dial tone before dialing (sec)	Reserved	097	Reserved	00
051	Dialer anti Jan delay	Reserved	098	Passive Arming delay Max 9, Min 05 mint	00
052	Telephone line test intervals (minutes)	Reserved	100	Arming Momentary Key=01/ Wi-Fi relay	01
053	Telephone line test at disarmed (0=No)	Reserved	101	Instant Arming by press Key 5 (0=N0)	00
054	Rings count before system answers	Reserved	102	Battery Test upon Arming	01
055	Ring Length (unit 10 milliseconds)	Reserved	103	Show LEDs and Display at Home mode	01
056	Ring Cycle (unit 100 milliseconds)	Reserved	104	Tamper Zone/s as 24H zone/s	00
057	Ring Time Out (minimum) seconds	Reserved	105	Reset zones before siren stop (0=No)	00
058	Answer now at phone ring (0=No)	Reserved	106	Codes restore with * & # enabled (0=No)	01
059	Bypass answering machine (0=No)	Reserved	107	Display troubled zones even 103=1	00
	<b>Exit &amp; Ent. Delay, Pulse Cnt</b>		108	Reserved	
060	Fast dialing upon alarm (0=No)	01	109	Enable remote DTMF via telephone	Reserved
061	Reserved				
062	Entry delay 1 (seconds)	12	110	Remote Disarm via DTMF Tel (0=No)	Reserved
063	Entry delay 2 (seconds) X 4	00	111	Remote Zone Bypass via DTMF (0=No)	Reserved
064	Exit delay (seconds) X 4	08	112	Reserved	
065	Time frame for Pulse Count Zone (sec)	08	113	Enable remote control via PC (0=No)	Reserved
	<b>Siren Features</b>		114	Remote PC sets the system date (0=no)	Reserved
067	Total siren sound time (minutes)	03	115	Reserved	
068	Siren Test on Arming (0=No)	00	116	Enable ON output as Elec. strike trig	Code 7
069	Siren when Tel Line Test fail (0=No)	Reserved	117	Reserved	
070	Siren sound On during cycle (sec)	15	118	Output A1 time set (sec)	30
071	Siren sound Off during cycle (sec)	04	119	Activate A1 output at Panic alarm	00
072	Siren at Bell (DC Output) Mode (0=No)	01	120	Activate A1 output at Tamper alarm	00
073	Siren at Self Contained Mode (0=No)	00	121	Activate A1 output follow siren time	01
074	Reserved		122	Activate A1 output via Remote DTMF	00
075	Buzzer 3 beeps when Disarming (0=No)	01	123	Reserved	
	<b>Keypad (KP) Buzzer</b>			<b>Outputs A2, SLO &amp; Times</b>	
076	Activate buzzer at entry delay (0=No)	01	124	Output A2 time set (minuets)	Reserved
077	Activate buzzer at exit delay (0=No)	00	125	Activate A2 output at Panic alarm	Reserved
078	Activate buzzer at Tel Test Fail (0=No)	Reserved	126	Activate A2 output at Tamper alarm	Reserved
079	Activate buzzer at Home Mode (0=No)	01	127	Reserved	00
080 (1)	Activate buzzer keys feedback (0=No)	01	128	Activate A2 output to trig Listen In	Reserved
081	Activate KP Panic keys * & # (0=No)	01	129	Reserved	
082	Activate siren at KP Panic (0=No)	00	130	Activate SLO output at Panic alarm	01
083	Activate Tel Dialer at KP Panic (0=No)	01	131	Activate SLO output at Tamper alarm	00
084	Activate KP Buzzer at Panic (0=No)	00	132	Activate SLO output at Tel Line Fail	Reserved
085 (2)	Activate Panic keys at AV707-B (0=No)	Reserved	133	Activate SLO output via Remote DTMF	Reserved
086	Reserved		134	Reserved	
087	Number of Beeps for Chime Zone	03	135	Reserved	00
088	Reserved		136	Activate SLO2 output as Smoke Reset	Reserved
			137	Reserved	

(1) LED keypad only



4. ZONE 1 to 16 FEATURES (> refers to the value setting address)

Zone Number →	Add.	Zones 1 to 8								Add.	Zones 9 to 16							
		1	2	3	4	5	6	7	8		9	10	11	12	13	14	15	16
Feature ↓		Group 1									Group 2							
Zone In Use	204	1	2	3	4	5	6	7	8	205	1	2	3	4	5	6	7	8
Entry/Exit Delay 1 >062	208	1								209								
Entry/Exit Delay 2 >064	212									213								
Entry / Exit Follower	216		2							217								
24-Hour Zone	220									221								
Fire Zone	224									225								
Day Zone	228									229								
Group Bypass 1 (home mode)	232									233								
Group Bypass 2 (home mode)	236									237								
Manual Bypass Enabled Zone	240	1	2	3	4	5	6	7	8	241	1	2	3	4	5	6	7	8
Keypad sounder on Alarm	244	1	2	3	4	5	6	7	8	245	1	2	3	4	5	6	7	8
Siren Output Zone >067	248	1	2	3	4	5	6	7	8	249	1	2	3	4	5	6	7	8
A1 output Zone	252	1	2	3	4	5	6	7	8	253	1	2	3	4	5	6	7	8
Reserved	256									257								
SLO output Zone (not timed)	260									261								
Reserved	264	1	2	3	4	5	6	7	8	265	1	2	3	4	5	6	7	8
Reserved	268									269								
Reserved	272									273	1	2	3	4	5	6	7	8
Chime Zone	276	1								277	1	2	3	4	5	6	7	8
Pulse count Zone >065	280									281								
Panic reports zone by SMS	284									285								
Zone without end of line res.	288	1	2	3	4	5	6	7	8	289	1	2	3	4	5	6	7	8
Double Zone Alarm & Tamper	292									293								
Green Zone (activated once)	296	1	2	3	4	5	6	7	8	297	1	2	3	4	5	6	7	8
Swinger Shut-Down	300									301								
Normally Open (N.O.) Zone	304									305								
Delayed Power-Up Zone	308									309								
Fast response zone	312									313								

Factory Default Program is as shown in table; Blank Square means no default program  
 SLO = Selective Output.

5. ZONE 17 to 32 FEATURES (> refers to the value setting address)

		Zones 17 to 24								Zones 25 to 32								
Zone Number →		17	18	19	20	21	22	23	24		25	26	27	28	29	30	31	32
Feature ↓	Add.	Group 1								Add.	Group 2							
Zone In Use	206	1	2	3	4	5	6	7	8	207	1	2	3	4	5	6	7	8
Entry/Exit Delay 1 >062	210									211								
Entry/Exit Delay 2 >064	214									215								
Entry / Exit Follower	218									219								
24-Hour Zone	222									223								
Fire Zone	226									227								
Day Zone	230									231								
Group Bypass 1 (home mode)	234									235								
Group Bypass 2 (home mode)	238									239								
Manual Bypass Enabled Zone	242	1	2	3	4	5	6	7	8	243	1	2	3	4	5	6	7	8
Keypad sounder on Alarm	246	1	2	3	4	5	6	7	8	247	1	2	3	4	5	6	7	8
Siren Output Zone >067	250	1	2	3	4	5	6	7	8	251	1	2	3	4	5	6	7	8
A1 output Zone	254	1	2	3	4	5	6	7	8	255	1	2	3	4	5	6	7	8
A2 output Zone	258									259								
SLO output Zone (not timed)	262									263								
Siren sound on telephone line	266	1	2	3	4	5	6	7	8	267	1	2	3	4	5	6	7	8
SVM1 message on tel line	270									271								
SVM2 message on tel line	274									275	1	2	3	4	5	6	7	8
Chime Zone	278									279	1	2	3	4	5	6	7	8
Pulse count Zone >065	282									283								
Panic reports to CS Zone	286									287								
Zone without end of line res.	290	1	2	3	4	5	6	7	8	291	1	2	3	4	5	6	7	8
Double Zone Alarm & Tamper	294									295								
Green Zone (activated once)	298	1	2	3	4	5	6	7	8	299	1	2	3	4	5	6	7	8
Swinger Shut-Down	302									303								
Normally Open (N.O.) Zone	306									305								
Delayed Power-Up Zone	310									311								
Fast response zone	314									315								

Factory Default Program is as shown in table; Blank Square means no default program  
SLO = Selective Output.

Values beneath addresses are default programming.

## 8. Powering Up & Programming Examples

### 8.1 Before Powering Up

- Place Control Panel in a well-ventilated location and as far as possible from any heat, transmission and high humidity source.
- Do not place high power RF wireless transmitters near Control Panel.
- Check for proper grounding.
- Make sure detectors, keypads or any other devices are connected to the Control Panel in their correct polarities.
- Connect a momentary voltage to the siren; making sure a 'beep' is sounded. In case of no beep, check for a short circuit or improperly connected wires.
- Power-up through transformer, if system seems to operate properly connect the battery.
- Better do not connect any sensors or other devices to the battery terminals.
- Series 5000 is compatible with 12V smoke detectors, common collector type or relay (-) output on alarm, however, adding a manual Reset switch is required.

Momentary switch achieves smoke detector reset. The switch (or relay) disconnects power to smoke detector following a smoke alarm.

## 8.2 Reset System to Default Programming

In case you made programming changes and the system operation is miss functions it is recommended to set system to the factory defaults program. **Warning**, this function erases all codes and system programming settings. Apply as below:

1. Enter program mode.
2. Go to address 200 and enter 69. Wait to "U" in keypad display
3. Exit programming by 999 or hold down key 9.



System will revert to factory default program and codes, Code No. 1 revise to 1 2 3 4; programming code to 1 9 9 4.

**Note:** Erroneous or conflicting programming features are discarded by the system upon quitting program mode.  
For example: Programming the same zone as 24H type and Delayed zone will be recognized only as a 24H zone.

### Reset System to Default Codes (In case code is lost)

To enable this feature, verify address 106 is enabled.


Power down, wait 10 seconds, then power up by applying the AC power. After power up wait until the keypad display the panel version, and status LED light on.

Hold-down keys  Press both together  during 5 seconds (after applying AC); sounder beeps during the hold-down, release keys; "U" letter displayed in confirmation.

User code No. 1 (1234) and programming code (1994) will reset to default.

## 8.3 Installer (Engineer) Programming Examples

Power up by connecting AC power with battery, keypad LEDs are on.

1. Hold down keypad key  (hold-down function).
2. While the four LEDs are blinking, enter programming code ('1 9 9 4'):

3. 'P' will be displayed, means you are in programming mode.

The two left LED's (Red & Green) blink to indicate that system is waiting for a new programming address number.

4. Enter address to be programmed (refer to programming table). Current value of address will be displayed and LEDs blink.

**Note:** Blinking of 2 left most LEDs, means system is waiting for new address *to be entered*;

Enter a 3 or 2-digit address (according to address length.)

**Note:** 3 blinking LEDs means system is waiting for new *value* to be entered;

Enter a 2-digit value, or as required.

**Easy Tip**


**You may program any address by entering the address then the value in sequence.**

**EXAMPLE 1:**

'P' is displayed and two left-most LEDs are blinking.

1. Program zones 1 and 4 as 'Exit/Entry Delayed 1' (zone type).
2. Address 208 represents the 'Exit/Entry Delayed 1' zones.
3. Press 208; current value of this address is '1' (factory default program.)  
Three LEDs will blink and a '1' will be displayed (default program).
4. To enter new required value press the address number 208 then the new required value ('1' and '4') by pressing 1 than 4 in uninterrupted sequences; 'U' confirms programming updating.
6. 'P' is displayed; two left-most LEDs are blinking.

**EXAMPLE 2:**

1. To program zone 4 as 24H zone (in factory default program, this is an Instant Zone).
2. Address 220 represents the "24H Zone" type for zones 1 to 8.
3. Press 220; current value of the address is '-' ('-' means blank - no 24H zone is programmed).  
Three LEDs will blink and an '-' will be displayed (default program).
4. To enter the new required value press the address number 220 then enter new value '4,' by pressing  (zone 4).  
'U' confirms programming updating.
5. 'P' is displayed; two left-most LEDs are blinking.

Note: To delete a programmed feature, enter '0' at feature's address
--

In case you want to revise zone number 4 to be Instant Zone, remove the 24H Zone feature, follow the steps below:

In program mode, press 2 2 0 (address of 24H Zone), then press 0, wait "U" to confirm.  
To verify; press 220 should display ' - ' (sign for blank).

## 9. GisMo GSM module add on

### 9.1 GSM for series 5000 SMS format

To identify the GSM; The Gismo PCB board with antenna plug located at the left-upper side in the main control panel enclosure.

Pack includes GSM RF antenna. Before power up **always connect the antenna** to prevent damage to the GSM module. Verify the antenna cable is not coiled.

Process wiring with power down; don't insert the SIM card with power on.

The Gismo has two indication LEDs, power and network. After power up wait to network LED to slow blinking, **fast blinking means not connected** to GSM network.

The alarm panel/dialer sends SMS with time and date stamped, easy to track systems status, alarms and troubles.

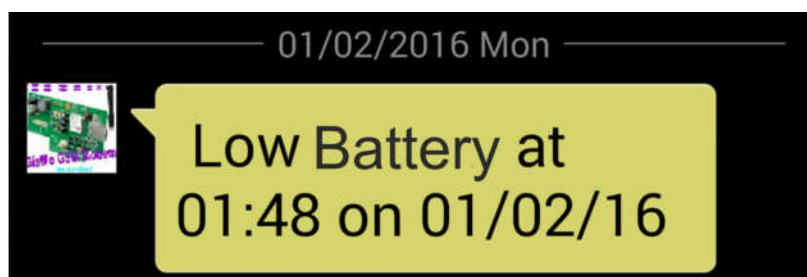


Figure 1: Gismo 95 GSM SMS message sample

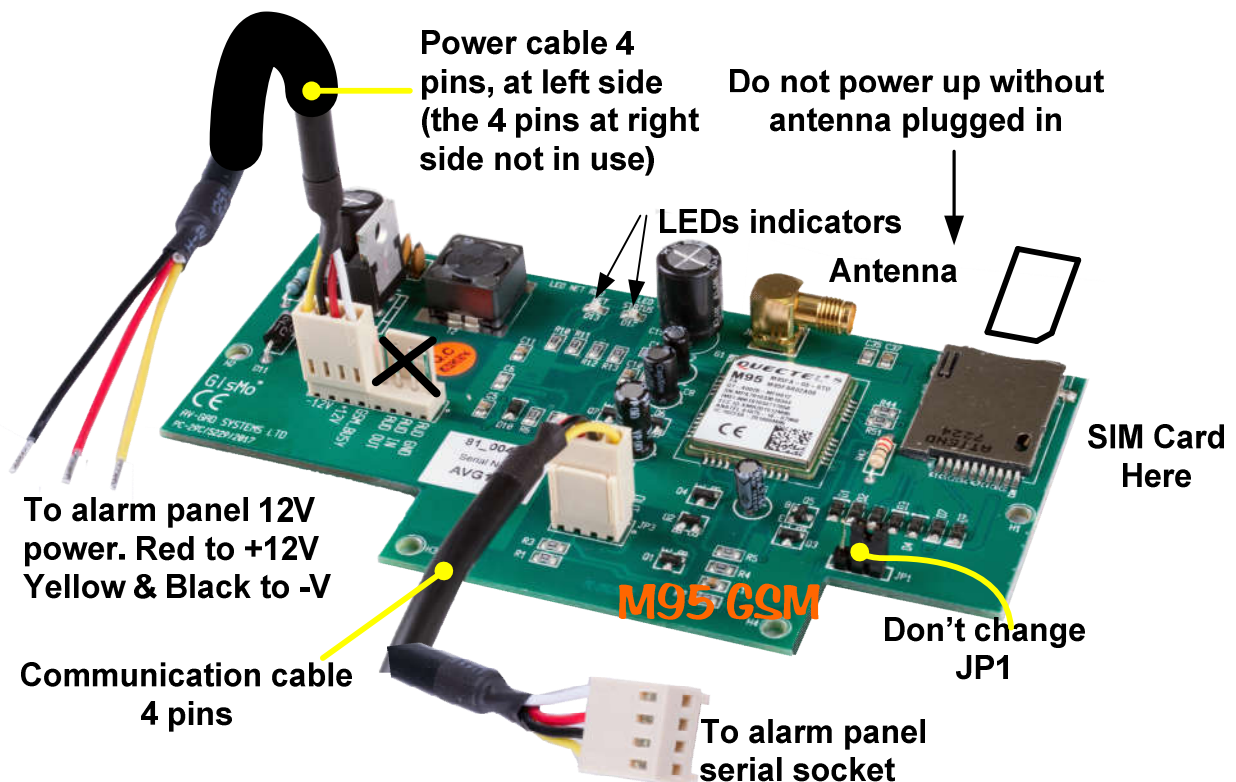


Figure 2: Gismo 95 GSM module description

## 9.2 Programming GSM and Dial features

To setup the panel wire the keypad model AV-701 or AV-702 (refer to main installation manual).

With power down insert the SIM card and connect the GSM antenna.

Power up with DC only (without battery), as all works connect the battery.

Hold down key 8, enter **1 9 9 4** (programming code), **P** is displayed indicating you are in PROGRAM mode. In programming mode enter 200, then the required function as detailed below.

<b>Command</b>	<b>Description</b>	<b>Keypad display</b>
Press 200 then 10	To display SMS sending way: Via PSTN or via GSM network	Line = PSTN Cell= GSM
Press 200 then 11	Panel send SMS via PSTN	LINE
Press 200 then 12	Panel send SMS via GSM	CELL
Press 200 then 50	To display the dial mode	LINE or CELL
Press 200 then 51	Set panel to dial via PSTN	LINE
Press 200 then 52	Set panel to dial via GSM (not ready yet)	CELL

Series 5000 panels are capable to send SMS via GSM also can dial via GSM, when dial via GSM no tune or sound generated by the system.

### 9.3 GSM factory programmed texts

Zone 1: Burglary at zone 1

Zone 2: Burglary at zone 2

Zone 3: Burglary at zone 3

Zone 4: Burglary at zone 4

Zone 5: Burglary at zone 5

Zone 6: Burglary at zone 6

Zone 7: Burglary at zone 7

Zone 8: Burglary at zone 8

**Fire** or **Panic** zone texts change accordingly; the word Burglary replaced by fire or panic. Other languages maybe apply.

Every event via SMS is time and date stamped. For customized texts EasyLoad software is required, texts set at zone description section.

#### **System fail texts displayed via SMS:**

AC fail

Low Battery

AC fail restored

Low Battery restored

More events are included.



**WARNING:**  
To prevent electrical shock, disengage the AC power and disconnect the telephone line before servicing this unit.

**Auxiliary Power Output**

Regulated 12V.  
Observe maximum 1.1A current for keypads and Aux. power

**10.1 Wiring Diagram  
AV-5009 LED GSM ready Wiring Diagram**

