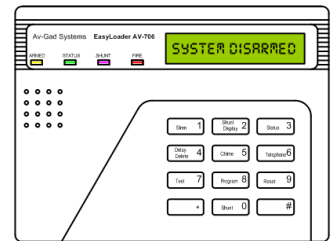


# AV-705, 706, 707/B LCD Keypad

## INSTALLATION INSTRUCTIONS V3.06 (Item: 4710, A4BKE)



The AV-705, AV-706 and AV-707 *EasyKey*™ are the future-generation keypads, with the AV-707 New Look shape, fully-customized microprocessor remote station, multitasks functions with 32 Keypad ID's. The AV-706 is an economic version LCD keypad, with same operations principles as AV-707. The AV-707, AV-707B and AV-706 are compatible with *EasyLoader*™ PRO & Dublo suffix alarm control panels: AV-4044 & AV-4008 Pro, AV-2008/4009/2016 and AV-4016 Dublo.

Before attempting to use the AV-705, AV-707 and AV-706, read thoroughly this manual and the control panel full version installation manual.

Two rows, each of 16 characters display, provide full information and clear status system. The keypad includes simple and easy text editor for fast words writing.

Av-Gad LCD keypads contains built-in standard-words and key-letters index for fast and easy custom programming in almost any Latin language.

Function keys, displayed upon request, facilitate setting and resetting, programmable constant messages (e.g. time of day, service information, etc.), in Latin or Hebrew characters.

**Verify that your keypad/s version is same as panel version or higher (newer)**

### Ordering Information:

**AV-707E:** English text keypad. **AV-707ETP:** English text keypad with added Tamper.

**AV-707B:** English text keypad with three functions key (fit panels Ver. 2.16 and later).

**AV-706E:** English text keypad. **AV-706ETP:** English text keypad with added Tamper.

**AV-705:** Remote keypad without LCD display (as AV-707) fits PRO, SMS & Dublo panels.

### 1. Wiring the AV-707, AV-706 and AV-705

AV-4044/4008PRO, AV-4009D Dublo supports up to four AV-707/706 keypads, AV-4016, 4016 Dublo control panel supports up to seven keypads. When using four keypad or more add power supply (like AV-21) to prevent loading the panel's power supply.

To connect more keypads to the same system, add an external power supply (as AV-21). Wire length for each AV-707/706 Keypad should not exceed 200 meters, when using 0.5 mm<sup>2</sup> wires. In few keypads system, wire all keypads in parallel.

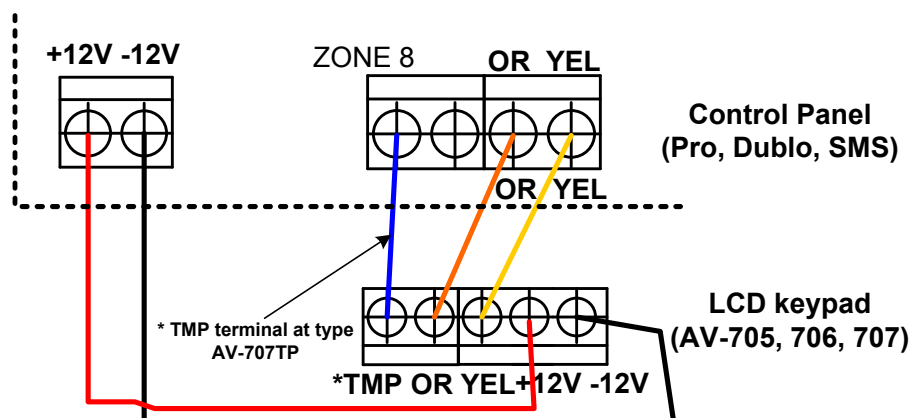


Figure 1: Keypad wiring

**Important!! Do not connect the keypad to control panel with power on. Prevent running keypad wires alongside telephone wires, high voltage wires, or transmitting antennae. Run keypad wires separately, not in the same cable with other devices (telephone, PIRs etc.)**

**Do not use the keypad as junction box for wiring power to sensors. Install the keypad at human eyes height (150-180 cm) for clear display visibility**

## 2. General description

For clear LCD display visibility install the keypad at human eye height (about 150-180 cm). Tilt the keys door, for AV-705, 707 remove the screw holding the keypad front cover (at lower keypad section), and install the rear keypad part to wall. Attach both parts and tighten the screw. After installation, pill-off the protective sheets cover from keypad window.

The AV-705, 706, 707 keypads are compatible with Pro and Dublo alarm panels. If you are not familiar with the panel refer to your control panel manual.

When wiring few keypads (or adding one later), all keypads should be from the same software version. The version noted on the keypad back.

For cost saving application, as 2<sup>nd</sup> keypad use the AV-705. The AV-705 has the same functions as AV-707; however, the LCD display is not included.

Upon power-up "Set Panel Time" is displayed, hold-down key '0' then hold-down key '1', enter time in 24H format and #. To set date hold-down key '0' then hold-down key '2', enter date in dd-mm-yy format and #. The '#' is mostly used as an ENTER key, typed at the end of a command.

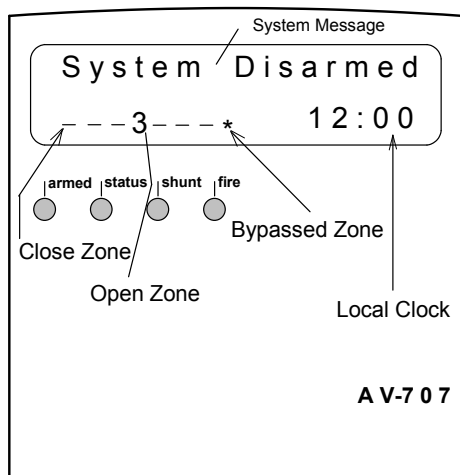
If the message: **Download Texts** is displayed when first powering-up the keypad, wait until download texts from the panel to the keypad is finished.

To download texts enter Installer Programming mode (see chapter 5), type 200 then 71, downloading will start, wait for a while until Installer Progr is displayed on the upper line. The downloading cannot be aborted.

The second row displays the zone status. Each '—' sign represents a zone. If a zone is open, the zone's number like 123—567— will replace the —.

If a zone had been bypassed, a '\*' will appear instead. The control panel time is displayed in the five rightmost positions.

The first line displays system announcements, like: System Disarmed, Alarm, Low Battery, etc. Refer to figure 2.



**Figure 2:** Zone status as display in AV2008 and AV4009 Dublo.

In Use mode, the LCD often shows the installer LOGO (the logo is editable). To display zone description hold down key 3 twice.

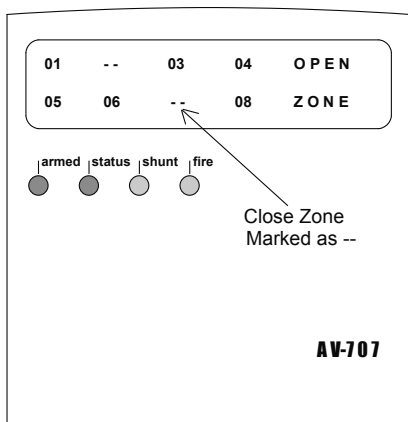
To save power, the LCD and keys backlight turned OFF after 60 seconds upon ending the entries (it turns ON again when an alarm occurs).

Most accessible functions of the LCD Keypad are similar to those of the AV-701 (seven segments keypad).

Refer to the Control Panel manual for Hold Down functions.

Hold down key 3 to display open zones, the result is zone numbers for the open zones, and two dashes for close zone, as shown in figure 2A.

The - - sign represents a close (none trouble) zone. To display bypassed zone hold-down key 2, bypassed zone displayed separately, not in the same display as at the 2005/8. Note: The zone status display at 16 zones (like AV-4016 Dublo) is bit different from eight zones panels (like AV-4008 Pro).



**Figure 2A:** Zone status display AV2016, AV4016 Dublo (16-32 zones) in Use mode, keys typed at the keypad are concealed (as they are part of the User Code) and '\* \* \* \*' are displayed.

In Armed and Disarmed mode, after 5 attempts to enter fault code, the keys will not react to any key press for 30 seconds, in order to prevent code learning or other code break exigency.

During programming, keys displayed as they are typed (there are some combination exceptions).

If after a command no key is pressed for 3 seconds, an automatic Enter generated by the keypad, thus ending the command.

To speed up the procedures **type '#' as Enter** and send the command to the control panel. Use Enter after the "Hold Down" functions, to speed up function. To cancel the input string Hold Down key '9' (reset).

Exception to the above is the zone bypass. There is no need for ENTER (#) after typing '0' and the zone number to be bypassed. The command is immediately sent to the control panel.

To arm and disarm the system, enter a valid code followed by Enter (# key).

Software version is displayed for 10 seconds after power-on, or in case of no communication from the alarm panel.

**Make sure all keypads are from the same version – Marked on the back side**

### 3. Programming Mode

#### User Programming Mode (User Codes Programming)

To enter User Programming mode: "Hold Down" key '8' (program), the three Rightmost LEDs will start blinking; enter the Master User Code (factory default **1 2 3 4**) followed by # key (# = enter). To **change the user codes** refer to your alarm panel manual.

The upper line will display 'User Programming', the lower line will be cleared and a blinking cursor will appear. The Leftmost two LEDs will start blinking indicating that a "location" is expected. In this case, location means "User Code" indexes that you want to modify, erase or programmed. User Index means User Number 1-8, as system contain eight (8) different user codes.

Enter a two-digit number from 01 to 08 (2 digits required). After the index had been entered (the "location"), the upper line is cleared, the blinking cursor moves to the beginning of the line, three Rightmost LEDs start blinking indicating that data is expected (in this case the new User Code).

Enter one to six digits code. To correct the input press the '\*' as backspace or hold down key '9' (reset) to cancel the input, at the end of the input type '#' (Enter).

The control panel will verify that the new code is not in use by other user (if that happens you'll be notified) and respond by displaying the code.

At any time after the control panel response, you can start typing a new index (there is no need to wait for the announcement to disappear).

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.

**To set systems clock:** Press 20 and enter the time in 24H format, confirm with #. Press 20 and # to display the system clock. If Auto Arming enabled this is the only procedure to set the clock. Starting panels version 3.06: Day light saving; "0"+"1"+1- increases time by one hour, "0"+"1"+0 - decreases time by one hour.

**To set Auto Arming Time:** Press 21 and enter the time in 24H format, confirm with #. Press 21 and # to display the Auto Arming time.

To exit the User Programming mode type "99" followed by #.

**Enter # in the phone number:** Hold-down 0 and #

### **Installer programming mode**

Entering to Installer Programming Mode "Hold Down" key '8' (program). The three Rightmost LEDs start blinking, enter **default Installer Code - 1 9 9 4** then press '#'. The upper line will display 'Installer Programming', the lower line will be cleared and a blinking cursor will appear. The Leftmost two LEDs will start blinking indicating that a "location" is expected.

In programming mode, locations are three digits long. The programmable locations described in the Installer Manual. Some commands performed using locations that are not included in the programming table (as the 200 or 900 commands).

In Programming mode there is no automatically generated Enter. Every command must end with a user typed Enter - key '#'. This means that there is no hurry when typing the data and corrections (using the backspace erase key '\*' or the hold down reset key 9).

The keypad accepts any input as data. The control panel checks for every entered digit and rejects invalid data (illegal characters, out of range, etc.)

To display the current contents of a location, type the location and Enter ('#' key). If the location exists, the upper line will display the location description, the lower line will show the contents. Scrolling address (leafing through) forward press #, backward scrolling use \*.

To change the contents, type the location, when the cursor moves to the upper line and the three Rightmost LEDs start blinking, type the new content, update with #.

For locations such as those, concerning the zone features there is no need to follow the order of the digits.

**Locations of the 0 or 1 (YES/NO, communicator parameters):** type a single digit (0 or 1 is sufficient).

**Cancel zone and system features (address where entering 1,2,3,4,...):** Entering a zero clears the location data.

**Telephone number programming:** Similar to the programming of the Follow Me telephone number (refer to paragraph No. 6 in this manual) with the exception that there is no time limit when typing.

**Change the Installer Code (By default is 1 9 9 4):** Enter location 099, type the new code, confirmed by # (enter). Make a note of the new code.

The “Enable-Manual Bypass via Code No.1” (address 071/5), and “Enable-Keypad Tactile Beep” (Address 070/4) are not operative.

**Display keypad version:** In program mode hold down \* and # keys.

**To exit the Installer Programming mode type 999 and #**

#### **4. Special commands**

##### **Location 200 commands**

Control panel model and Software version: Location 200

Typing 200 followed by # (in program mode), will display the control panel model, the software version and software date.

**Restoring the panel factory default settings:** At location 200 enter 69

Typing 200 as location and 69 as content (in short 200 69) will restore the factory defaults for the programming table.

##### **Restoring the factory default zone descriptions and LOGO texts:**

The zone descriptions, as well as the installer LOGO displayed by the LCD Keypad are editable (refer to chapter 8) by the installer. Texts saved at the control panel and in the non-volatile LCD Keypad memory.

To restore zone description and Logo texts to their factory default, type 200 then 70.

After this command, the texts are conformed to the factory default, only in the control panel memory! At location, 200 enter 70, confirmed by #, Restore Texts displayed, followed by “Downloading”.

**If using 16 zones panel, but texts in keypad refers to an 8-zone panel, enter 200 +71 command, wait until texts downloaded.**

##### **Downloading the LCD Keypad zones descriptions and announcements from panel to the keypad**

To download texts from the control panel to keypad: At location 200, enter 71 and #.

The LCD Keypad nonvolatile memory contains a part of the zone names and LOGO texts and many other texts used by the control panel for its announcements.

At initialization time (a virgin LCD Keypad memory), these texts are filled with the "Download Texts" message. If such message is displayed, download texts from the control panel to the keypad. All keypads automatically updated.

The texts download command is at address 200 enter 71. It takes about 2-3 minutes until texts are downloaded - don't abort the downloading.

During download, the LCD Keypad displays the texts received (after they had been stored in the memory thus verifying that the memory operates properly).

The download operation transfers the texts to all the keypads connected to the control panel.

## Functions table at location 200 (default means "Factory default settings")

Location	Function
200 and #	Display control panel & software version
200 and 04 and #	Erase (reset) the events history
200 and 05 and #	Restore all codes to factory default
200 and 69 and #	Restore panel's programming to default
200 and 70 and #	Restore zone and logo default texts
200 and 71 and #	Download all texts from panel to keypad
200 and 72 and #	Download zone description & logo only
200 and 77 and #	Set panel to PC Communicate Mode
200 and 78 and #	Arming from Programming mode

### Restoring texts after replacing the Control Panel

When replacing a control panel restore the edited texts from a keypad: Enter to location 900, when the text is displayed, press # (enter) verify that "Text Saved" is displayed. Scroll over all texts to restore, press # (enter) at each text line.

### 5. Setting the Keypad ID

When several keypads connected to the control panel, the LCD Keypads better have ID (Identification) numbers. During installation set each keypad to the required ID number, otherwise all keypads will act as number 01.

By default, the ID of a new keypad is number 01. ID numbers are in the range of 1 to 32. Give these numbers arbitrarily as long as two keypads don't share the same number.

To display the current keypad ID number:

In programming mode, upper row displays Installer Progr.

Hold-down simultaneously '\*' and '0' keys, results in displaying "Keypad ID: 01". To change keypad ID, enter new number from 01 to 32 (2 digits) confirmed by Enter (# key), or escape by Holding Down key 9.

The change will be in effect after leaving the Programming Mode.

### ID keypad advantages

When typing a command from a specific keypad, the control panel echoes its response only to the keypad that issued the command. No error or confirmation beeps at other keypads.

If the need arises, one user can display Open zones at one keypad while at another keypad another user is inspecting the short history or sets the time of the control panel. If the control panel is too busy to respond to more than one user, a "Control Panel Busy" message displayed.

Only the keypad initiating the programming is active, all the others keypad locked.

### 6. Editing zones descriptions and LOGO texts

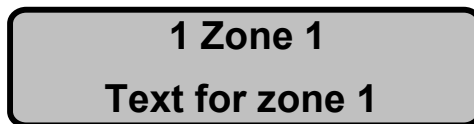
The installer can edit the zone names and the two lines LOGO texts. To access the Editing Mode type 900 (at programming mode) and #. This leads to step 1.

**Displaying the logo texts during alarm press \* and 0.**

### Step 1: Selecting text and logo for editing

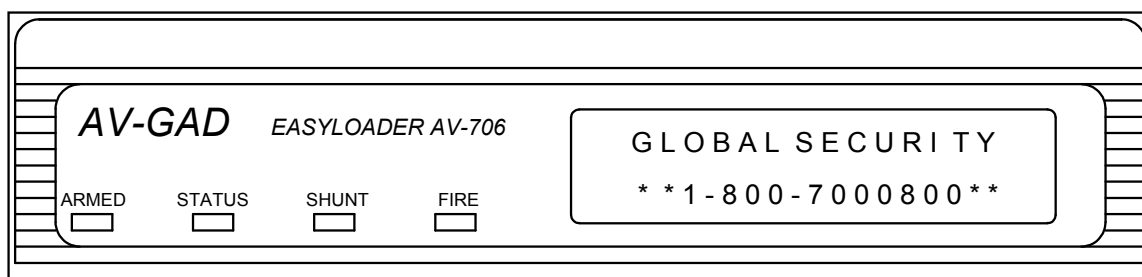
To edit the logo press key "2" ↑ or "5" ↓, when the text displayed, press # and change the each letter by using the arrows (see fig. 4, then steps 2, 3, 4).

The zone descriptions displays as follows: In the upper line the current text, in the lower line the zone it belongs, as drawn below:



**Important:** When editing a zone description, it's recommended **to include the zone number**. If the zone description is for example; John Bedroom, it's recommended modifying text to: Z1 John Bedroom. The 'Z1' mean; zone number one.

If the zone number is not included, zone bypass becomes complicated to the end-user. In Use Mode zones descriptions list is available by hold-down key '3' twice.

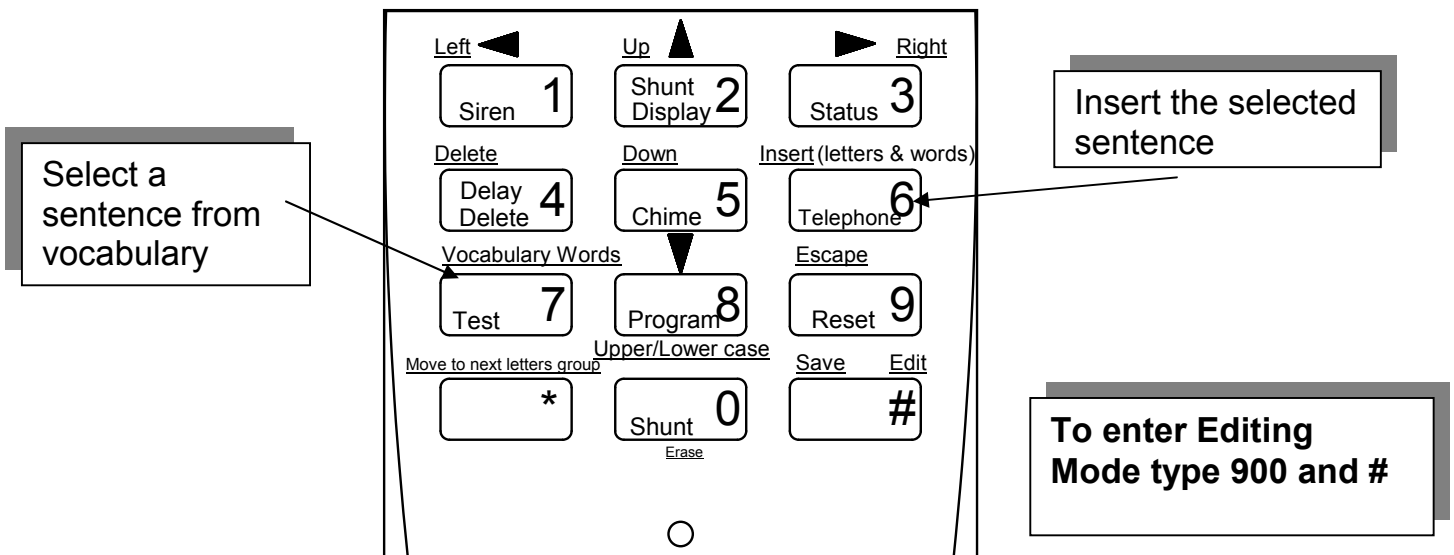


**Figure 3:** Logo display at AV-706 keypad

The '2' and '5' keys act as UP arrow (2) and DOWN arrow (5). Keys '2' and '5' scroll texts and letters up and down.

If we visualize a top-down list, where the first entry (1) is at the top and the last entry is at the bottom, and then the DOWN arrow will move towards the bottom (the last entry) while the UP arrow will move towards the top (the first entry).

Thus, pressing repeatedly the '5' - DOWN key, texts for zones 1, 2, 3...will be displayed. If we currently see the text for zone 7, pressing the '2' - UP key will bring the text for zone 6.



**Figure 4:** Keys functions in text Edit mode

After entering location 900, the two Leftmost LEDs are blinking indicating that you can select the text to edit (as in the programming mode we had to enter a location).

To select the text for editing, press the '#' (enter) key, refer to step 2.

### Step 2: Text Editing

When entering this step, the lower LCD display line is clear, the three rightmost LEDs start blinking and a cursor ('\_') will appear at the first position of the upper line.

To navigate from one position to another, use key '1' to move left, key '3' to move right.

### Step 3: Modify a character at the cursor

To modify a character at the cursor scroll up and down the available characters (starting at Space and ending at '<-'). Key '2' scrolls up and key '5' scrolls down. Refer to figure 3.

Again, visualize the alphabet as a top down list with the letter A at the top and the letter Z at the bottom. Key '5' scrolls down from A to Z, key '2' scrolls up from Z to A. The scrolling starts at the current character. This means that if we have at the cursor the 'a' character, pressing the DOWN key '5' will bring the letters 'b', 'c', 'd' etc. Keep the UP or DOWN keys pressed for a while, the scrolling will become faster.

For reaching the characters range use the '\*' key. By repeatedly pressing '\*' key we jump from one range of characters to another in the order: 'space', '0', 'A', 'M', 'a', 'm' and space again (starting from the current range in which the character at the cursor is now).

Moreover, to change a letter case (Upper<>Lower) press key '8'.

To insert a space at the cursor press the '6' key. A space will be inserted and the text at the right of the cursor will be moved to right, some characters in the line will be lost when moving over the end of the display.



To delete a character at the cursor press the '4' key. The character at the cursor will be erased and the text at the right of the cursor will move left to adjust for the lost character.

"Word Erase" key is available, '0' key erases all the characters from the cursor to the next space at right.

Thirty - (30) words vocabulary is included. Pressing key '7' can access the vocabulary. After pressing key '7', the words displayed at the lower line.

To brows, use the '2' (UP) and '5' (DOWN) keys, once the required word appears press '6' (INSERT) key. The word inserted at the cursor and the cursor will be positioned after the inserted word. If no word selected, just press '9' (reset) key to exit the vocabulary word selection mode.

Pressing key '8' at the cursor replaces Upper to Lower case letters and vice versa.

After inserting, deleting, adding word from the vocabulary you have two options: To save the new text or to exit the editing mode without saving, save the new text by pressing '#' (enter). The Keypad local memory save the text, sent to the control panel and echoed from the control panel to connected keypads.

To exit without saving the modifications, press '9' key (reset) that functions as Escape in Editing Mode.

After saving or exiting without keeping the changes, we are back to step 1: Text selection. The LOGO texts follow the last zone text.

In **use mode** pressing '\*' and '0' simultaneously displays the Logo on the keypad.

**To exit Editing Mode press '9', keypad returns to Installer Programming Mode. To exit programming mode, type "999"**

## 7. Remote Up and Downloading

Select the proper panel type from the menu in the DWLD software. Use the latest DWLD version software that supports the PRO and Dublo panels.

For PC communication use the AV-232 adapter or PC with dedicated modem, with the latest EasyLoad software pack.

For AV-232 or AV-USB232: Connect the adapter to the "Serial" plug (located in the panel PCB upper-right part), enter to programming mode, type 200 and then 77 confirm by #, 4 LEDs will start blinking, "PC COMMUNICATION" is displayed, then establish connection from the DWLD PC program.

For communication through modem, call the panel via the DWLD program. To abort communication (during remote DWLD) Hold-down key '9'.

**Note:** The AV-707 dark window and AV-706 upper Gray color panel are covered with a thin protective sheet; remove the sheet when the installation is over.

## 8. Eight Programmable Timers (Shabat Mode)

The eight timers feature is based on the alarm panel logic, not available with all alarm panels.

For series 2000 & 3000: Enabling 074–2 (074-5 for version 3 and Dublo), eight programmable automatic timers are available. In EUR version (with Power-Cut hardware), the timer also can disconnect the Aux. Power (to sensors and keypad). Power-Cut is useful for the Jewish Shabbat mode. Separate manual describe the many features and possibilities of operating the timers. Code number 6 turns system timers mode on and off.

The timers are programmable in User Program mode (Hold-down 8 and 1234), each timer addressed by 31-38 entries (31 for timer 1, 38 for timer 8), and few possibilities are included.

The timers operation (mode) can be:

- 0 - The timer is not active (cancelled or skip timer)
- 1 - Arming the Control panel
- 2 - Disarm the Control panel
- 3 - Control panel Arming with HOME (define Group Bypass zones)
- 4 - Aux. Power (to detectors) is disconnected (Shabbat mode)
- 5 - Aux. Power (to detectors) restored (end of Shabbat mode)
- 6 - Timers operation mode stopped and Aux. Power restored

The entry order is:

3X HH MM M; set timer X (1-8) to HH (0-24) hours, MM (00-59) minutes, M mode.

#### Arming with Auto Timers Enabled

Arming is performed even with open zones.

#### Disarming with Auto Timers Enabled

Follow-Me telephone number is not erased after automatic disarming.

If Opening/Closing report to central station is enabled the report is always sent even if USER 1 was not selected to report. Using CID (Contact ID) format an automatic Opening Closing is reported.

Automatic timers activation follows the timers order (1->2->3), and not the chronological order!

That means; if timer 1 is set at 20:00 and timer 2 is set at 19:59, timer 1 operation is carried first and then (after about 24 hours) timer 2 is called to perform its task.

Timers operation can be enabled/disabled by the user; by entering code 6 (if so programmed), or from the user-programming mode.

#### Power Cut mode operation

In the Power-Cut mode the following applies:

- The Power Cut controls the Aux. Power output
- All zones programmed as Delay Power Up zone (at address 031) are ignored (so they cannot set an alarm), PIR should be connected to those zones
- In Disarm mode, zones opening will not cause the Status (Green) LED to blink. The LED will blink only after troubles occurred in the system.
- Chime mode disabled (even if previously enabled)

- All zones treated as Green Zone (No Reset) zones (meaning that Alarm will stop even if the zones remain troubled).

When this mode is stopped and power-cut is restored, the PIR zone (Power-Up delay zone type) detectors will be ignored for 40 seconds more (until they warm up).

#### To display the timers hours

Hold down "0" then hold down "6": display timers.

During the display, hold down the following keys to browse:

"1" - From the first timer

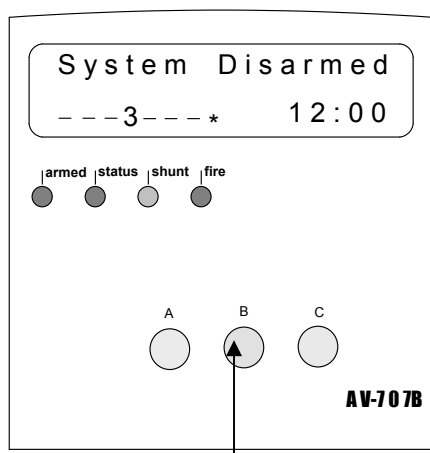
"2" - Backwards

"#" (Enter) - Next (after the 8th will start again from the first)

"9" - stop display

- Arming by timers: Two long beeps - unless it is arming with group bypass (home) and there are group-bypassed zones
- Disarming by timers: Three short beeps (if enabled by programming)

#### **9. AV-707B** (supported by PRO, Dublo, 2000, 3000, 4000 panels ver. 2.16 & higher)



The AV-707B is an enhanced version with three functional buttons. Press key \* then A B or C key automatically enter to Home Mode A, B, or C and arms the system.

Optional: Metallic versions type AV-707BG (Golden) and AV-707BS (Silver) contains the three buttons.

**Figure 5:** AV-707B functional buttons (Arming + bypass and emergency)

#### **Functional buttons**

**Button A:** Selects Group Bypass No. 1 (if programmed so) and arms the system. For AV-707 (without 3 buttons) press 0 and 1

**Button B:** Selects Group Bypass No. 2 (if programmed so) and arms the system

For AV-707 (without 3 buttons) press 0 and 2

**Button C:** Selects both Group 1 and Group 2 and arms the system. Make sure not to bypass all zones, in such case arming will be without bypassed zones.

For AV-707 (without 3 buttons) press 0 and hold down 0.

To activate the three bypass options, press \* key then hold-down the A, B or C function button, the Orange LED will blink and then the Armed LED will light steady to indicate that systems is armed.

Address 050-7 enables Panic, Medical Emergency and Fire Alarm activated by the three buttons. Operative only if the Contact ID format is used to report events to the Central station. For more details ask for the Emergency Three Panic Keys appendix.

## 10. Buzzer Control

New feature: To turn the keypad buzzer ON or OFF hold down keys "0" (zero) and "#" simultaneously.

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

The buzzer set ON at power on when the system is in programming mode.

## 11. AV-707, AV-706 and AV-705 LCD keypad Technical Specifications

Operating Temperature	-10°C to 60°C
Maximum relative Humidity	80% @ 20°C
Input DC Power	Filtered 11- 13.6V DC Polarity and Surge protection
Current Drain	50 mA with LEDs and LCD backlight Off 110 mA with LEDs and LCD backlight On
Dynamic Inner Memory EEPROM	Non-Volatile. Text stored at Control Panel Messages stored with and without power
Display (LCD is shortening of Liquid Crystal Display)	LCD display 16 characters x 2 Rows Automatic display contrast
Display Area (not available with AV-705)	60 X 16 mm
Wiring	4 wires connected to wires terminal 5 wires for keypads with Tamper Switch
Keys	12 Silicon Rubber Keys with carbon pads
Keys Protection	Manual tilt ABS door at AV-705, 707, 707B
Internal Buzzer	85 dB Piazo buzzer
Fixed Vocabulary Internal Words	Up to 30 common word
Internal Words Editor	Space, Delete, Insert, Dictionary
Language	Latin or Hebrew
Compatibility Note: When few keypads used in the same system, check that all keypads are the <b>same software version</b>	Series 2000, 3000, 4000: PRO and Dublo alarm panels
Dimensions	AV-705, AV-707, AV-707B: H=168, W=105 AV-706: H=105, W=140 mm
Housing	White ABS with Polypropylene Window
Packing	Color carton box, 30 per master box
Gross Shipping Weight	0.25kg

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

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Item 4710



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