

# AeGIS 8000 Series

## Installation and Programming Manual



REV. 7.0

AeGIS ACCESS CONTROL  
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## **LIMITATIONS OF LIABILITY**

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Pach and Company is not liable for any errors that might occur from use of this document, nor is any commitment to update the information herein implied.

Pach and Company does not assume any liability for any damages, which may arise in installation or use of the AeGIS 8000 Series. Pach and Company does not assume liability for any incompatibility between the AeGIS 8000 Series and users devices.

Pach & Company reserves the right to make changes without prior notice to any products in order to improve reliability, function or design.

# Chapter 1

## GETTING STARTED

### 1.1 INTRODUCTION

Pach & Company thanks and congratulates you on the purchase of your AeGIS 8000 Series Telephone Access Control Systems. The AeGIS 8000 Series are a dedicated Telephone Entry Access Control System, available in surface and full-flush mount. A mounting ring is required for full-flush mount.

The manual is designed to guide you through the proper programming and use of the AeGIS 8000 Series. It is important for you to read and follow the manual completely. **THE INSTALLATION AND PROGRAMMING MANUAL AND SOFTWARE PROGRAMMING MANUAL ARE ALSO AVAILABLE IN THE CD ROM.**

The Aegis 8000 Series comes with two years warranty, see section 1.4 for detail.

### 1.2 SYSTEM DESCRIPTION, SPECIFICATIONS AND ACCESSORIES

AeGIS 8000 Series utilizes microprocessor technology to provide security as well as convenience to you. It is designed for residential and commercial buildings, military and government sites, industrial facilities, or any location where access control is required. It is a dedicated telephone entry system and connects to the public telephone network. Authorization for access control is through the telephone line, or with the tenant's own access code, which is entered on the system keypad.

The system parameters and tenants data will be entered via the keypad and the LCD provides easy display. EEPROM technology is used on AeGIS 8000 series. The tenant database will not be lost during a power failure.

#### **Standard features:**

- Program and store the tenant's name, directory code, telephone number and 4-digit personal access code.
- Remote programming via modem (modem and software are included).
- Unlocking door or gate remotely by the tenant using his or her telephone keypad.
- Unlocking door or gate by the tenant using his or her own private access code.
- Built-in back-light LCD directory, Postal Switch and Two Independent Relay.
- Recess keypad with built-in night lights.
- Programmable features:
  - 2, 3 or 4 Digit Directory Code
  - Lock Out Count
  - Manual Unlock-Auto Countdown Re-lock.
  - 4 Digit Unit master Code
  - Open Interval
  - Talk Time

#### **Technical Specifications:**

**Power Input:** 12 VAC 40 VA (supplied) or 12 VDC 40VA UL Listed Transformer

**Current Consumption:** 1.0 A idle, 1.5 A operation.

**Emergency Battery:** 12Vdc, 4Ahr rechargeable (not supplied)

**Telephone Line:** Standard voice grade RJ11 jack.

**Night Light:** 14V 0.080A 15,000 Average life hours or Light Emitting Diode (LED).

**Operating Environment:** Temp. 32°F to +140°F Relative Humidity 0% to 95% non-condensing.

\* Heater Pad (AHP5) is required if the ambient temperature is below 32°F.

**Relay Output:** Form C Dry Contact 120 VAC 10A/ 24VDC 10A/ 250VAC 7A

**Memory Type:** EEPROM

**Tone Detection:** Crystal controlled, capable of detecting short bursts 80 ms

**Mounting:** Surface and Full-Flush, outdoor or indoor.

**Construction:** 16 gauge cold rolled steel back box and brushed stainless steel or brushed brass plating faceplate.

**Dimensions (HWD):**

10-13/16" x 8-5/8" x 3-3/4" (Surface Mount Main Lobby Control Panel)

10-13/16 x 8-3/8 x 2-7/16" (Full-flush Main Lobby Control Panel)

Full-Flush Mounting Ring (included with the Full-flush main Lobby Control Panel)

**Inside:** 11-1/8" (H) x 8-11/16"(W) x 2-5/8"(D)

**Outside:** 14-5/16" (H) x 12-1/8" (W)

**Shipping:** 11 lbs or 5 kg (Approximately).

Specifications subject to change without prior notice

**Accessories and Replacement Parts:**

PART NUMBER	PART NUMBER
<b>FFM8</b> full-flush mounting ring for 8000FF Series	<b>AKYSN</b> new keys round type
<b>ASP1</b> power and telephone surge protector	<b>ABAT1</b> 12VDA 4.5 Ahr battery back-up
<b>AHP5</b> heater pad	<b>8MAN</b> replacement manual. Available also on line.
<b>APM1</b> single arm pedestal for car and pedestrian	<b>8LENS</b> replacement LCD's lense
<b>APM2</b> double arm for auto, pedestrian and semi-truck.	<b>8LTKT</b> night light kit
<b>APM3</b> single arm for semi-truck	<b>ARIGB8</b> rough-in box for full-flush installation
<b>APM5</b> double arm side by side	<b>ABHSE8</b> battery housing
<b>APMDB1</b> single arm direct burial	<b>ARFR</b> radio frequency receiver
<b>AP8</b> adapter plate for mounting on APMS	<b>ARFT</b> radio frequency transmitter fob
<b>XFMR</b> transformer 12VAC 40VA	<b>ARFHT</b> radio frequency transmitter sunvisor mount
<b>AVPC</b> pin-hole size color camera for all telephone entry	
<b>AKYSO</b> old keys flat type	

### 1.3 UNPACKING THE SYSTEM

After you unpacked the package, check the serial number on the printed circuit board, cabinet and warranty card, they must match. If they do not match, please contact Pach and Company toll free number at (888) 678-7224. All the items listed below come with the AeGIS 8000 Series. Some of the parts may not be listed below. If you have missing items, please contact your distributor or Pach and Company at (888) 678-7224.

- AeGIS 8000 System.
- XMFR (Power Transformer, 12VAC 40VA).
- 3-pin terminal connector (inside the system)
- 5-pin terminal connector (inside the system).
- 7-pin terminal connector (inside the system).
- Two - Key sets (2 keys per set).
- RJ-11 adapter (inside the system).
- Owners Manual.
- Software CD.
- Warranty Card.

## 1.4 Limited Warranty

Pach and Company new products are warranted to be free of defects in material or workmanship for a period of two years, (24 months), from the date of purchase. This warranty extends only to wholesale customers who buy direct from Pach and Company or through Pach and Company's normal distribution channels.

Pach and Company does not warrant this product in any way to the end user consumer. Consumers must obtain warranty information from the selling dealer and/or installer as to the nature of the dealer's warranty, if any. All contact to Pach and Company from the end user consumer will be referred to the consumer's selling dealer and/or installer.

There are no obligations and/or liabilities on the part of Pach and Company for consequential damages arising out of or in connection with use or performance of Pach and Company products or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation. Any use or change to Pach and Company products not expressly approved by the manufacturer, and performed by an authorized dealer/installer will immediately void the warranty. All implied warranties, including warranties for marketability as well as implied warranties for suitability, are valid only until the warranty expires or is voided, whichever comes first.

This Pach and Company Limited Warranty is in lieu of all other warranties express or implied and all Pach and Company warranties are subject, but not limited, to the following conditions.

### I. NEW PRODUCT POLICY

1. The products must be properly installed as specified; and maintained or used as intended.
2. Cause of product failure is not due to vandalism or malicious mischief, improper installation, abnormal physical or electrical stress, lightning, power surges, misuse, negligence, accidents, or Natural disasters.
3. **Warranty is immediately null and void if the product has been altered, repaired, or modified without express written authorization from Pach and Company Technical Department, with such authorization given only to manufacturer approved dealer/installers.**
4. Under no circumstances will Pach and Company honor warranty any product found to have been altered, repaired, and/or modified by the end-user consumer.
5. Pach and Company reserves the right to repair the product, or replace a warranted product with a like product of equal value in the event original product cannot be repaired.
6. Distributors and/or Dealer-Installer must first obtain a Return Merchandise Authorization (RMA) number from Pach and Company Technical Department before returning any product to factory for repair, whether under warranty or not. **No returns accepted without RMA.**
7. Return Merchandise Authorization (RMA) numbers will not be issued to the end-user consumers. Consumers must contact their selling dealer-installer for any/all warranty issues.
8. Distributor and/or Dealer-Installer are responsible for all shipping charges, incl. freight and insurance fees, for products shipped to Pach and Company repair center.
9. Pach and Company warranty does not guarantee any product to be free of operation error or service interruption in any way during the course of daily product operation.
10. Pach and Company is not responsible for time, travel, and/or labor costs of any distributor and/or dealer-installer, including but not limited to, any expenses to install, uninstall or reinstall hardware/software/firmware related to warranty issues, product enhancements, or product failures.

## **NEW PRODUCT WARRANTY EXCEPTION**

### **WIEGAND CARD, KEYFOB AND TRANSMITTER**

Pach and Company warrants the wiegand card, clam, and keyfob to be free of defects in material or workmanship for a period of **three (3) months** from the date of invoice. The above warranty is subject to the following conditions.

1. The products must be properly installed as specified; and maintained or used as intended.
2. Cause of product failure is not due to vandalism or malicious mischief, improper installation, abnormal physical or electrical stress, lightning, power surges, misuse, negligence, accidents, or Natural disasters.
3. Warranty is immediately null and void if the product has been altered, repaired, or modified without express written authorization from Pach and Company Technical Department, with such authorization given only to manufacturer approved dealer/installers.
4. Under no circumstances will Pach and Company honor warranty any product found to have been altered, repaired, and/or modified by the end-user consumer.
5. Pach and Company reserves the right to repair the product, or replace a warranted product with a like product of equal value in the event original product cannot be repaired.
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7. Return Merchandise Authorization (RMA) numbers will not be issued to the end-user consumers. Consumers must contact their selling dealer-installer for any/all warranty issues.
8. Distributor and/or Dealer-Installer are responsible for all shipping charges, incl. freight and insurance fees, for products shipped to Pach and Company repair center.
9. Pach and Company warranty does not guarantee any product to be free of operation error or service interruption in any way during the course of daily product operation.
10. Pach and Company ***is not responsible for the time, travel, and/or labor costs of any distributor and/or dealer-installer***, including but not limited to, any expenses to install, uninstall or reinstall hardware/software/firmware related to warranty issues, product enhancements, or product failures.

### **AeGIS PARTS LIMITED WARRANTY**

## **II. NON-WARRANTY REPLACEMENT PARTS POLICY**

Pach and Company parts are warranted to be free of defects in material or workmanship for a period of six (6) months), from the date of purchase or repair. **This warranty extends only to wholesale customers who buy direct from Pach and Company or through Pach and Company's normal distribution channels. Consumers must obtain warranty information from the selling dealer and/or installer as to the nature of the dealer's warranty, if any. All contact to Pach and Company from the end user consumer will be referred to the consumer's selling dealer and/or installer.**

**This Pach and Company Limited Warranty is in lieu of all other warranties express or implied** and all Pach and Company warranties are subject, but not limited, to the following conditions.

### **REPLACEMENT PARTS**

1. The products must be properly installed as specified; and maintained or used as intended.
2. Cause of product failure is not due to vandalism or malicious mischief, improper installation, abnormal physical or electrical stress, lightning, power surges, misuse, negligence, accidents, or Natural disasters.

**3. Warranty is immediately null and void if the product has been altered, repaired, or modified without express written authorization from Pach and Company Technical Department, with such authorization given only to manufacturer approved dealer/installers.**

**4. Under no circumstances will Pach and Company honor warranty any product found to have been altered, repaired, and/or modified by the end-user consumer.**

5. Pach and Company reserves the right to replace a warranted product with a like product of equal value in the event original system cannot be repaired.

6. Distributors and/or Dealer-Installer must first obtain a Return Merchandise Authorization (RMA) number from Pach and Company Technical Department before returning any product to factory for repair, whether under warranty or not. **No returns accepted without RMA.**

7. Return Merchandise Authorization (RMA) numbers will not be issued to the end-user consumers. Consumers must contact their selling dealer-installer for any/all warranty issues.

8. Distributor and/or Dealer-Installer are responsible for all shipping charges, incl. freight and insurance fees, for products shipped to Pach and Company repair center.

**9. Pach and Company warranty does not guarantee any product to be free of operation error or service interruption in any way during the course of daily product operation.**

10. Pach and Company is not responsible for time, travel, and/or labor costs of any distributor and/or dealer-installer, including but not limited to, any expenses to install, uninstall or reinstall hardware/software/firmware related to warranty issues, product enhancements, or product failures.

## **AeGIS NON-WARRANTY REPAIR LIMITED WARRANTY**

### **III. NON-WARRANTY REPAIR POLICY**

Pach and Company warrants repairs to be free of defects in material or workmanship for a period of three (3) months from the date of repair and invoice. **This warranty extends only to wholesale customers who buy direct from Pach and Company or through Pach and Company's normal distribution channels. Consumers must obtain warranty information from the selling dealer and/or installer as to the nature of the dealer's warranty, if any. All contact to Pach and Company from the end user consumer will be referred to the consumer's selling dealer and/or installer.**

**This Pach and Company Limited Warranty is in lieu of all other warranties express or implied** and all Pach and Company warranties are subject, but not limited, to the following conditions.

1. The products must be properly re-installed as specified; and maintained or used as intended.

2. Cause of repaired product failure is not due to vandalism or malicious mischief, improper installation, abnormal physical or electrical stress, lightning, power surges, misuse, negligence, accidents, or Natural disasters.

**3. Warranty is immediately null and void if the product has been altered, repaired, or modified without express written authorization from Pach and Company Technical Department, with such authorization given only to manufacturer approved dealer/installers.**

**4. Under no circumstances will Pach and Company honor warranty of any product found to have been altered, repaired, and/or modified by the end-user consumer.**

5. Pach and Company reserves the right to replace a previously repaired product with a like product of equal value in the event of repair failure, provided repair failure occurs within the specified warranty period.

6. Distributors and/or Dealer-Installer must first obtain a Return Merchandise Authorization (RMA) number from Pach and Company Technical Department before returning any product to factory for non-warranty repair. **No repair returns accepted without RMA.**

7. Return Merchandise Authorization (RMA) numbers will not be issued to the end-user consumers. Consumers must contact their selling dealer-installer for any/all warranty issues.

8. Distributor and/or Dealer-Installer are responsible for all shipping charges, incl. freight and insurance fees, for products

shipped to Pach and Company repair center.

**9. Pach and Company warranty does not guarantee any product, new or repaired, to be free of operation error or service interruption in any way during the course of daily product operation**

10. Pach and Company *is not responsible for time, travel, and/or labor costs of any distributor and/or dealer-installer*, including but not limited to, any expenses to install, uninstall or reinstall hardware/software/firmware related to warranty issues, product enhancements, or product failures.

**IMPORTANT REPAIR NOTE:** Pach and Company will perform a factory physical evaluation of all products submitted for repair at receipt of item, and reserves the right to decline repairs after said physical evaluation. In the event a returned product is deemed ineligible for repair; the product will be returned to sender via common carrier ground at Pach and Company expense.

# Chapter 2 INSTALLATION

A proper installation of the AeGIS system is very essential. You MUST follow the installation procedures, block diagrams and installation requirements as specified in this chapter.

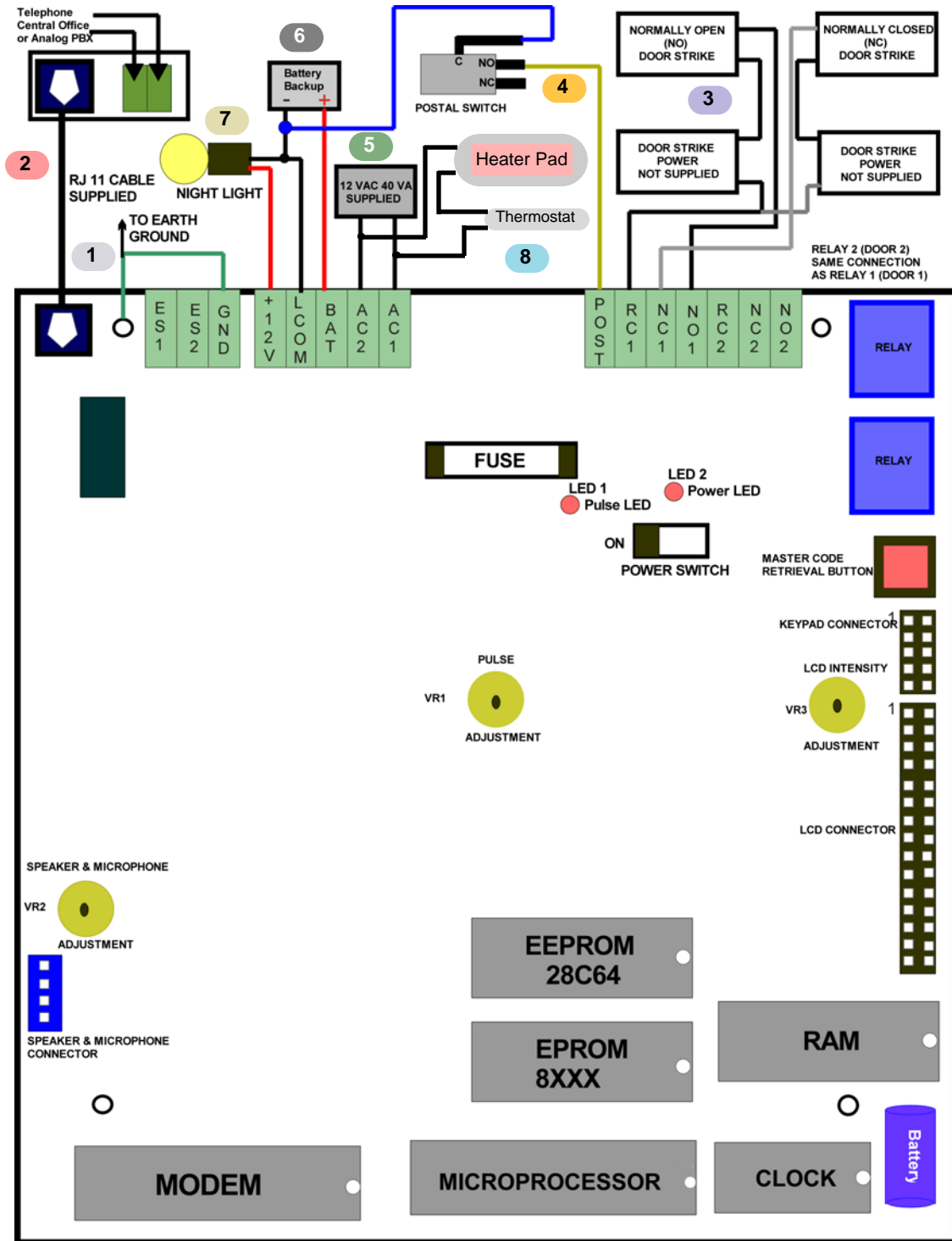


Figure 2.1

## 1 GROUNDING

Grounding the AeGIS 8000 System is essential. Please comply with all local ordinances and industry standard procedures to ensure a complete and safe ground. Recommended earth grounds are:

- Use 16-gauge solid wire for grounding.
- Installing a ground steel rod from the steel enclosure to the earth ground, use the same grounding point on all systems for best ground.
- Installing a solid heavy gauge wire from the AeGIS steel enclosure to a water pipe.
- Connecting the AeGIS steel enclosure to any earth grounded steel metal.

## 2 TELEPHONE LINE

Always use AeGIS AC/Telephone Surge Protector (ASP1) to protect your investment.

- Twisted pair category 5 is the minimum requirement if the distance less than 100 feet. Shielded wires are recommended to avoid radio reception or any other noise problems. If the distance is more than 100 feet, 2-conductors, 18 gauge shielded stranded is recommended. Ground one end of the shielded to earth ground. See installation instruction if ASP1 Surge Protector is used.
- If a PBX line is used, the AeGIS system must be connected to the analog extension port to dial within the extension. **Do not connect the AeGIS to the PBX digital extension port.**

**Note:** The system can only be programmed to dial another extension or the outside line, it cannot dial both. If the system is programmed to dial the outside line, then the system cannot be used to dial another extension.

## 3 DOOR STRIKE OR ELECTRICAL STRIKE

The AeGIS 8000 Series come with two on board relay: Two Normally Open (NO) and Two Normally Closed (NC).

- 10 Ampere 120 VAC or
- 10 Ampere 24 VDC or
- 7 Ampere 250 VAC

See figure 2.1 for door strike wiring diagram. See door strike or electrical strike manual for wiring requirements.

**Note:** Some door strikes are creating electrical, magnetic noise or spikes and could create problem to the system's memory. Although the system's relay has built-in filtration circuit, installing an isolation relay is recommended if the system is experiencing with looses memory. Use separate power supply for the isolation relay.

## 4 POSTAL LOCK

The AeGIS 8000 Series comes with pre-wired "**Normally Open**" postal switch as shown on figure 2.2(a). If the postal switch is pressed, the gate will open. If you need "**Normally Closed**" postal switch, see figure 2.2(b).

The postal lock is not included. You have to purchase the postal lock from your local post office. The postal switch can be used for other purposes such as infra-red free exit sensor or switch, card reader, etc.

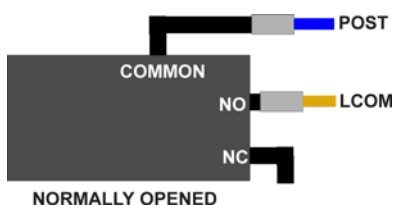
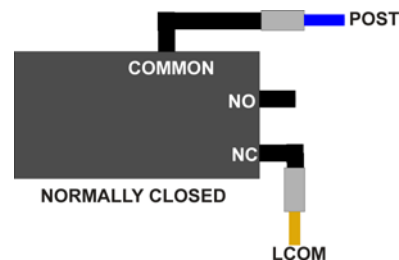


Fig 2.2 (b)

Fig 2.2 (a)



## 5 POWER

A 12 VAC 40VA transformer is supplied by Pach and Company. However, 12 VDC 40VA power supply can be used to power the AeGIS 8000 Series use the same connection as shown on figure 2.1. The DC output must be between 13.5 VDC-14.0 VDC, if the output is less than the range specified, the relay will not work and the door will not function properly.

- Two conductors, 18-gauge wire. **See installation instruction if ASP1 Surge Protector is used.**
- **DO NOT SHARE POWER TRANSFORMER** to power the AeGIS 8000 Series and other equipment, to do so will damage the system. **DO NOT USE ONE TRANSFORMER TO POWER MULTIPLE AeGIS SYSTEM.**
- Turn the power "ON" (left position). The Power Light Emitting Diode (LED2) should be "ON". You should see a Welcome message on the Liquid Crystal Display (LCD), if you do not see the Welcome message, turn the system immediately and see the trouble shooting guide.
- **If 12 VDC 40VA with or without built-in battery backup is used, the output voltage must be 13.5 VDC - 14.0 VDC. If the voltage output is lower than the range specified, the door or gate will not function properly.**

## 6 BATTERY BACKUP

An optional battery backup can be installed to keep the system in full operation during the power failure. The AeGIS 8000 Series have built-in charging circuit for battery backup. Recommended battery is ABAT1 (12 VDC, 4.5 Ahr) rechargeable. The life of the battery is approximately 8 -10 hours in idle mode. Replace the battery every three years.

- Use two conductors 18-gauge wire.

**WARNING:** The connection is polarity sensitive. Connect the battery (+) terminal to the connector labeled (BAT) on the AeGIS 8000 Series and the battery (-) terminal to the connector labeled LCOM on the AeGIS. See figure 2.1 for wiring diagram.

## 7 NIGHT LIGHT

The night-lights are factory prewired as shown on Fig 2.1. There are four 14V 0.080A 15,000 Average life hours light bulbs or super bright LED. Replace the light bulb with the same rating. If the system comes with super bright LED, you must call the manufacturer for the replacement.

## 8 HEATER PAD

An optional heater pad (12 VAC/12VDC 10 Watts) must be installed if the surrounding temperature is 32 °F or less to keep the Liquid Crystal Display (LCD) in operation. The same transformer (12 VAC 40VA) is used to power the heater pad. The heater pad has built-in thermostat (ON if the temperature is below 55.4 °F).

**WARNING:** Measure the input voltage after installing the heater pad. The input voltage must be between 12.5-13.5 VAC or 13.5 VDC-14.5VDC if 12 VDC power supply is used.

# Chapter 3

## PROGRAMMING

The AeGIS 8000 Series can be programmed **LOCAL** via built-in keypad or **REMOTE** via modem (see Management Software Manual for remote programming).

### LOG ON TO PROGRAMMING MODE

Two ways to log on to programming mode:

#### Using a valid master code

**Step 1:** **PRESS 0 AND # SIMULTANEOUSLY THEN RELEASE**, the display screen will stop scrolling. Repeat the process again if the display is still scrolling.

**Step 2:** Enter the valid 4-digit master code (default master code is 0000). The display will show:

Select Func: \_ \_

**Step 3:** Proceed to programming table 3.1 to continue programming. If the system is in idle for 30 seconds, the display will return to the scrolling mode.

#### Without a valid master code or forgot the master code

**Step 1:** Open the panel (key must be used). If you do not have a key, call the manufacturer to obtain a replacement key with nominal charge.

**Step 2:** Locate a square “RED” or “GREEN” button on the board and press and release it, the display will show:

Master Code: x x x x

xxxx is the 4-digit master code.

then proceed to step 3. If the display is showing:

Master Code: \* \* \* \*

stop and call the manufacturer for a memory replacement.

**Step 3:** Press #, proceed to programming table 3.1.

**TABLE 3.1 PROGRAMMING FUNCTION CODE**

FUNCTION CODE	PROGRAMMING
*	1. Exit the programming mode by pressing the * once or twice. 2. Clear the programmed name, phone number and access code by pressing *. 3. Press * then the 4-digit access code to gain access via the system's keypad.
#	Press # to accept the program.
<b>00</b> <b>REPLACE THE SYSTEM'S MASTER CODE</b> (Default setting is 0000) The master code is used to log on to programming mode.	<b>Step 1</b> Log on to programming mode, see instruction above. The display will show <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Select Func: _ _</div>

**01**  
**ADD A NEW TENANT**

Consists of four fields:

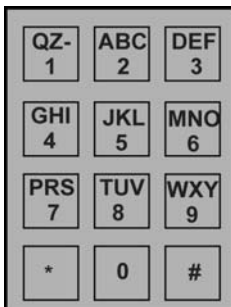
**Dir**  
Directory code, can be set to 2,3 and 4-digit (use function code 09). Directory code is a unique number assigned to each tenant, for example a unit number.

**Name**  
Maximum 16-characters long. For example: Apt 101, ADAM Apt 101, etc. **Warning:** If the phone number and access code are programmed without a name field, the directory code cannot be edited or deleted unless if you

- Remember the directory code
- Use function code 50 to delete a whole memory or
- Use software to delete a particular directory code or view a directory.

**Phone Number**  
Maximum 11-digit long

**Access code**  
4-digit access code (entry code) is used to enter the building via a system keypad. If you decided to use the same 4-digit code for all tenants, you only need to program the access code into one directory.



**Step 2** Enter function code 00, then #, the display will show

**Master Code: 0000**

**Step 3** Enter a new 4-digit master code the press #, the display will show

**Select Func: \_ \_**

or press \* to cancel, the display will show

**ERROR DATA \* \* \* \***

Disregard the message and the current master code will remain in the system.

**Step 4** Select another function code to continue programming or press \* to exit programming mode and you will hear “**three short beeps**”.

**Step 1** Log on to programming mode, see instruction above. The display will show

**Select Func: \_ \_**

**Step 2** Enter function code 01 then #, the display will show

**Enter Dir: \_ \_ \_**

**Step 3** Enter the directory code (see function code 09 for directory digit setting, default setting is 3-digit). The display will show

**Enter the Name:**

Then it goes blank for one second, then it will show

\_

Proceed to step 4.

If the directory code has already used, the display will show

**Dir # is used !**

Return to step 2. If the memory is full the display will show

**ERROR DATA \* \* \* \***

no more tenant can be added, you must delete some of the unused tenant directory code.

**Step 4** Enter a tenant name (up to 16 characters) using the keypad. Refer to keypad layout diagram.

- Press 0 for space
- Press 8 then 0 for back space
- Press \* to clear all letters or numbers entered or to reset the keypad’s letters if the letters are out of sequence.

**For example:** to enter PACH 12

- Press 7 once for letter P then press #

**Step 1** Log on to programming mode, see instruction above. The display will show

**Select Func: \_ \_**

**Step 2** Enter function code 01 then #, the display will show

**Enter Dir: \_ \_ \_**

**Step 3** Enter the directory code (see function code 09 for directory digit setting, default setting is 3-digit). The display will show

**Enter the Name:**

Then it goes blank for one second, then it will show

\_

Proceed to step 4.

If the directory code has already used, the display will show

**Dir # is used !**

Return to step 2. If the memory is full the display will show

**ERROR DATA \* \* \* \***

no more tenant can be added, you must delete some of the unused tenant directory code.

**Step 4** Enter a tenant name (up to 16 characters) using the keypad. Refer to keypad layout diagram.

- Press 0 for space
- Press 8 then 0 for back space
- Press \* to clear all letters or numbers entered or to reset the keypad’s letters if the letters are out of sequence.

**For example:** to enter PACH 12

- Press 7 once for letter P then press #

**FUNCTION CODE**

**PROGRAMMING**

- Press 2 once times for letter A then press #
- Press 2 three times for letter C then press #
- Press 4 twice for letter H then press #
- Press 0 for space then
- Press 1 eleven times for 1 then press #
- Press 1 twelve times for 2 then press ## then the display will show

**PH #:** \_\_\_\_\_

**Step 5** Enter the tenant phone number or extension number up to 11-digit then press #, the display will show

**ACCESS CODE:** \_\_\_\_\_

**Step 6** Enter the 4-digit access code then press #. The access code is the code for the tenant to gain access. If you use **one access** code for all tenant you only need to enter once into one of the tenant directory.

**Step 7** Proceed to step 2 and select the same function code or different function code to continue programming or press \* to exit the programming mode and you will hear “ **three short beeps**”.

**02**

**EDIT AN EXISTING TENANT**

The directory code must be available to edit an existing tenant directory. If the directory code is not available, see function code 78 to retrieve it or use software to edit it. **NOTE:** Function code 78 cannot retrieve a directory code without a name.

**Step 1** Log on to programming mode, see instruction above. The display will show

**Select Func:** \_ \_

**Step 2** Enter function code 02 then #, the display will show

**Modify Dir:** \_ \_ \_

**Step 3** Enter the directory code to be modified the press #, the display will show

**Enter the NAME:**

then the display will show

**current name show here**

- Step 4**
- **To change the name** do the following:
    - Press \* and program a new tenant name
    - Press # after entering each character then
    - Press ## after entering last character.
  - **To keep the name** press #

The display will show

**PH#:current phone number**

- Step 5**
- **To change the phone number** press \* and program a new one the press #.
  - **To keep the phone number** press #

The display will show

FUNCTION CODE	PROGRAMMING
	<p style="text-align: center;"><b>Access Code: current code</b></p> <p><b>Step 6</b> • <b>To change the access code</b>, press * then enter a new one then press #.          • <b>To keep the current access code</b>, press #</p> <p><b>Step 7</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “<b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>03</b> <b>DELETE AN EXISTING TENANT</b></p> <p>You must know the directory code to delete an existing tenant. Delete any unused directory to free the memory.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p style="text-align: center;"><b>Select Func: _ _</b></p> <p><b>Step 2</b> Enter function code 03 then press #, the display will show</p> <p style="text-align: center;"><b>Delete Dir: _ _ _</b></p> <p><b>Step 3</b> Enter the tenant directory code to be deleted then press #, the display will show</p> <p style="text-align: center;"><b>(Dir Code) is deleted !</b></p> <p>If the directory code does not exist, the display will show</p> <p style="text-align: center;"><b>Error on Delete !</b></p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “<b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>04</b> <b>CLEAR ALL TENANT DIRECTORY CODES</b></p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p style="text-align: center;"><b>Select Func: _ _</b></p> <p><b>Step 2</b> Enter function code 04 then press #, the display will show</p> <p style="text-align: center;"><b>Delete all ? 13</b></p> <p><b>Step 3</b> • Press 13 then #, the display will show</p> <p style="text-align: center;"><b>Are you sure ? 5</b></p> <p>then proceed to step 4 or</p> <p>• Press * to cancel deletion and you will hear “<b>one long beep</b>” and proceed to step 5.</p> <p><b>Step 4</b> Press 5 the # to delete or press * to cancel deletion.</p> <p><b>Step 5</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “<b>three short beeps</b>”.</p>

FUNCTION CODE	PROGRAMMING
<p align="center"><b>05</b>  <b>MANUAL UNLOCK AND LOCK RELAY 1</b>  <b>(DOOR 1)</b></p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p align="center"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 05 then press #, the display will show</p> <p align="center"><input type="text" value="OPEN1:00 HOURS"/></p> <p><b>Step 3</b> Enter</p> <ul style="list-style-type: none"> <li>• 01-98 hours to unlock door 1</li> <li>• 99 hours to unlock door 1 for indefinite time</li> <li>• 00 hours to lock door 1</li> </ul> <p>then press # or * to cancel.</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p align="center"><b>06</b>  <b>MANUAL UNLOCK AND LOCK RELAY 2</b>  <b>(DOOR 2)</b></p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p align="center"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 06 then press #, the display will show</p> <p align="center"><input type="text" value="OPEN2:00 HOURS"/></p> <p><b>Step 3</b> Enter</p> <ul style="list-style-type: none"> <li>• 01-98 hours to unlock door 1</li> <li>• 99 hours to unlock door 1 for indefinite time</li> <li>• 00 hours to lock door 1</li> </ul> <p>then press # or * to cancel.</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p align="center"><b>07</b>  <b>SINGLE OR MULTI SYSTEMS</b>  <b>(DEFAULT SETTING IS=1 FOR SINGLE)</b></p> <p><b>SINGLE:</b> one system connects to a phone line.  <b>MULTI:</b> more the one systems connect to a phone line (sharing the phone line).</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p align="center"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 07 then press #, the display will show</p> <p align="center"><input type="text" value="SING=1, MULT=0: 1"/></p> <p><b>Step 3</b> Enter</p> <ul style="list-style-type: none"> <li>• 1 for Single system</li> <li>• 0 for multi systems</li> </ul> <p>then press # or * to keep the current setting.</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>

FUNCTION CODE	PROGRAMMING
<p align="center"><b>08</b> SYSTEM ID NUMBER (DEFAULT SETTING IS =1 )</p>	<p>Not applicable, do not change the default setting.</p>
<p align="center"><b>09</b> DIRECTORY DIGITS (DEFAULT SETTING IS=3)</p> <p>Directory is used to identify a tenant name. It must be unique for every tenant. The directory code is used for direct dialing (see system operation) and to modify and delete the existing tenants.</p> <p>Directory digit must be selected before to do any programming. If 3-digit directory code is selected, you must use 3-digit directory code for all tenant.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p align="center"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 09 then press #, the display will show</p> <p align="center"><input type="text" value="DIR DIGITS: 3"/></p> <p><b>Step 3</b> Enter the directory digits 2, 3 or 4 then press # or press * to keep the current setting.</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p align="center"><b>10</b> CHANGE THE WELCOME MESSAGE (DEFAULT SETTING IS (" Welcome to Pach's Telephone Access System"))</p> <p>The welcome message consists of three segments. Each segment is 16 characters long.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p align="center"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 10 then press #, the display will show</p> <p align="center"><input type="text" value="Welcome to Pach'"/> 1<sup>st</sup> segment</p> <p><b>Step 3</b> Press * to erase the current message then enter a new one using the keypad (press # every character you have entered) then press ## after the last character you have entered to proceed to the 2<sup>nd</sup> segment, the display will show</p> <p align="center"><input type="text" value="s Telephone Acce"/> 2<sup>nd</sup> segment</p> <p><b>Step 4</b> Press * to erase the current message then enter a new one using the keypad (press # every character you have entered) then press ## after the last character you have entered to proceed to the 3<sup>rd</sup> segment, the display will show</p> <p align="center"><input type="text" value="ss System ... **"/> 3<sup>rd</sup> segment</p> <p><b>Step 5</b> Press * to erase the current message then enter a new one using the keypad (press # every character you have entered) then press ## after the last character you have entered.</p> <p><b>Step 6</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>

FUNCTION CODE	PROGRAMMING
<p style="text-align: center;"><b>11</b></p> <p style="text-align: center;"><b>OPEN RELAY 1 (DOOR 1) TIME INTERVAL (DEFAULT SETTING IS=12)</b></p> <p>The length of time relay 1 turns on.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 11 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">OPEN1 TIME: 12</div> <p><b>Step 3</b> Enter 04-99 seconds then press #.</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>12</b></p> <p style="text-align: center;"><b>OPEN RELAY 2 (DOOR 2) TIME INTERVAL (DEFAULT SETTING IS=12)</b></p> <p>The length of time relay 2 turns on.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 12 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">OPEN1 TIME: 12</div> <p><b>Step 3</b> Enter 04-99 seconds then press #.</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>14</b></p> <p style="text-align: center;"><b>SET SYSTEM'S TIME</b></p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 14 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Time      14:00</div> <p><b>Step 3</b> Enter the hour (in military format) then press # then enter the minute then press #.</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>15</b></p> <p style="text-align: center;"><b>DAYLIGHT SAVING TIME</b></p> <p>(Set Daylight Saving manually or synchronous via software)</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 15 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">DaylightSave? 1, 0</div> <p><b>Step 3</b> Enter</p> <ul style="list-style-type: none"> <li>• 1 to enable daylight saving (most region, except Arizona and Hawaii) then press #</li> <li>• 0 to disable daylight saving (Arizona, Hawaii and some parts of Indiana) then press #</li> </ul>

FUNCTION CODE	PROGRAMMING
	<p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p align="center"><b>16</b> VERIFY THE CURRENT DATE</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p align="center"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 16 then press #, the display will show the current date for about 3 seconds</p> <p align="center"><input type="text" value="FRI JAN. 17, 2003"/></p> <p><b>Step 3</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p align="center"><b>17</b> SET SYSTEM'S DATE</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p align="center"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 17 then press #, the display will show</p> <p align="center"><input type="text" value="Enter      date"/></p> <p align="right">then it will show</p> <p align="center"><input type="text" value="Date: MMDDYYYYD"/></p> <p><b>Step 3</b> Enter the current date then press #</p> <p><b>MM</b> = Current month      <b>DD</b> = Current date  <b>YYYY</b> = Current Year  <b>D</b> = Current day (1=Mon, 2=Tue, 3=Wed, 4=Thu, 5=Fri, 6=Sat, 7=Sun).</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p align="center"><b>19</b> INITIALIZE EVENT RECORDING</p> <p>The event buffer will hold up to 600 events. Download the events via software and save them into your hard-drive. Then clear the event buffer. It will save your time to download the next events.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p align="center"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 19 then press #, the display will show</p> <p align="center"><input type="text" value="InitEVR (0,1): _"/></p> <p><b>Step 3</b> Enter</p> <ul style="list-style-type: none"> <li>• 1 = clear the events buffer</li> <li>• 0 = cancel deletion then press #.</li> </ul> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>

FUNCTION CODE	PROGRAMMING
<p style="text-align: center;"><b>20</b> <b>RELAY 1 (DOOR 1) REMOTE ACCESS NUMBER SELECTION</b> (Default setting is 9)</p> <p>Remote access number is used for all tenants to provide remote access to their visitor(s). This number can be changed. The AeGIS 8000 Series have two relay, the second relay remote access number is set for number 8. If you change the remote access programming on relay 1 to a different number, do not select number 8, if you do so, the second relay cannot be released using the 8.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 20 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">OpenDoor1 No: <u>9</u></div> <p><b>Step 3</b> Enter 1-9 then press #.</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>21</b> <b>RELAY 2 (DOOR 2) REMOTE ACCESS NUMBER SELECTION</b> (Default setting is 8)</p> <p>Remote access number is used for all tenants to provide remote access to their visitor(s). This number can be changed. The AeGIS 8000 Series have two relay, the first relay remote access number is set for number 9. If you change the remote access programming on relay 2 to a different number, do not select number 9, if you do so, the second relay cannot be released using the 9.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 21 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">OpenDoor2 No: <u>8</u></div> <p><b>Step 3</b> Enter 1-9 then press #.</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>40</b> <b>MASTER CODE MASK</b> (Default setting is 0 for UNMASK)</p> <p><b>MASK:</b> Master code cannot be retrieved using the master code retrieve button. If you forget the master code, you must purchase a new memory chip.</p> <p><b>UNMASK:</b> Master code can be retrieved using the master code retrieve button.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 40 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">MC_MASK 1=YES: <u>0</u></div> <p><b>Step 3</b> Enter</p> <ul style="list-style-type: none"> <li>• 1 = MASK</li> <li>• 0 = UNMASK</li> </ul> <p>then press #</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>46</b> <b>VERIFY MODEL AND FIRMWARE VERSION</b></p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 46 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">V :XXXXA MM/DD/YY</div>

FUNCTION CODE	PROGRAMMING
	<p>XXXX = Model Number    MM = Month    DD = Date    YY= Year then press #</p> <p><b>Step 3</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p><b>50</b> <b>CLEAR THE MEMORY TO FACTORY DEFAULT</b></p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p style="text-align: center;"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 50 then press #, the display will show</p> <p style="text-align: center;"><input type="text" value="1 to Confirm: _"/></p> <p><b>Step 3</b> Enter    • 1 = to clear the memory to factory default then press # and the display will show</p> <p style="text-align: center;"><input type="text" value="DB_Init. Wait ..."/></p> <p>then proceed to step 1 to continue programming</p> <p style="text-align: center;">• 0 = to cancel then press # and proceed to step 4</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p><b>70</b> <b>SELECT COMMUNICATION PROTOCOL</b> (Default setting is 1 for V22)</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p style="text-align: center;"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 70 then press #, the display will show</p> <p style="text-align: center;"><input type="text" value="1_V22,0_BELL: 1"/></p> <p><b>Step 3</b> Enter    • 1 = V22                   • 0 = Bell then press #</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p><b>71</b> <b>ENABLE OR DISABLE MODEM</b> (Default setting is 1 for enable)</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <p style="text-align: center;"><input type="text" value="Select Func: _ _"/></p> <p><b>Step 2</b> Enter function code 71 then press #, the display will show</p> <p style="text-align: center;"><input type="text" value="EN-MODEM (0,1) : 1"/></p>

FUNCTION CODE	PROGRAMMING
	<p><b>Step 3</b> Enter   • 1 = enable                   • 0 = disable then press #</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>72</b> <b>LOCK-OUT COUNT</b> (Default setting is 3)</p> <p>The system will be disabled if invalid access code has been entered according to the lock-out count setting. The system will ignore further access code entries for 90 seconds.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; margin: 5px auto; width: fit-content;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 72 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; margin: 5px auto; width: fit-content;">LOCK-OUT CNT: 3</div> <p><b>Step 3</b> Enter the lock-out count (1-9) and then press #</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>73</b> <b>tone OR PULSE DIALING</b> (Default setting is 1 for tone)</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; margin: 5px auto; width: fit-content;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 73 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; margin: 5px auto; width: fit-content;">TONE=1 PULSE=0: 1</div> <p><b>Step 3</b> Enter   • 1 = Tone                   • 0 =Pulse then press #</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>74</b> <b>ENABLE OR DISABLE AUTO ANSWER</b> (Default setting is 1 for enable)</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; margin: 5px auto; width: fit-content;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 74 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; margin: 5px auto; width: fit-content;">AUTO ANSWER=1 :1</div> <p><b>Step 3</b> Enter   • 1 = Enable auto answer                   • 0 = Disable auto answer then press #</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>

FUNCTION CODE	PROGRAMMING
<p style="text-align: center;"><b>75</b></p> <p><b>ENABLE OR DISABLE KEYPAD PRESS BEEP</b> (Default setting is 1 for enable)</p> <p>ENABLE = Keypad will beep when the key is pressed DISABLE = Keypad will not beep when the key is pressed</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 75 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">BEEP On=1OFF=0 : 1</div> <p><b>Step 3</b> Enter   • 1 = Enable           • 0 = Disable then press #</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>76</b></p> <p><b>TURN OFF AND ON SPEAKER BEEP WHEN DOOR IS UNLOCKED</b> (Default setting is 1 for ON)</p> <p>ON = Speaker will beep when door is unlocked. OFF = Speaker will not beep when door is unlocked.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 76 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">UnlockBeep (1,0) 1</div> <p><b>Step 3</b> Enter   • 1 = Speaker beep is ON when door is unlocked           • 0 = Speaker beep is OFF when door is unlocked then press #</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>77</b></p> <p><b>ENABLE OR DISABLE PBX</b> (Default setting is 0 for disable)</p> <p><b>ENABLE</b> = Certain PBX machine requires to dial 9 (requesting an outside line) before dialing the phone number, therefore function code 77 must be enabled. <b>NOTE:</b> If function code 77 is enabled, the system cannot dial another extension on the PBX. <b>DISABLE</b> = Direct dial without requesting an outside line.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 77 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">PBX (1,0): 0</div> <p><b>Step 3</b> Enter   • 0 = disable the PBX then press #, proceed to step 5           • 1 = Enable the PBX then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">PBX#: _ _ _ _</div> <p><b>Step 4</b> Enter the number to request the outside line, i.e. 9 then press #</p> <p><b>Step 5</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>

FUNCTION CODE	PROGRAMMING
<p style="text-align: center;"><b>78</b> <b>VIEW A DIRECTORY CODE</b></p> <p>The tenant name must be available to view a directory code associated with the tenant.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p><b>Step 2</b> Enter function code 78 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">XXXXXXXXXXXXXXXXXXXX</div> <p>XX.....= Name in alphabetical order.</p> <p><b>Step 3</b> Press 3 (to scroll A-Z) or 6 (to scroll Z-A) to find the name then press # to display the directory code and the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">DIR: NNNN</div> <p>NNNN = directory digit (2-4 digit)</p> <p><b>Step 4</b> Proceed to step 3 to select another name or * and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>79</b> <b>TALK TIME</b> (Default setting is 060 seconds)</p> <p>The length of time the visitor can talk to the tenant. The talk time timer starts as soon as the system initiates the call. The talk time can be programmed from 010-180 seconds.</p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p><b>Step 2</b> Press 79 then press #, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">TALK TIME: 060</div> <p><b>Step 3</b> Enter 010 - 180 then press #</p> <p><b>Step 4</b> Proceed to step 2 and select the same function code or different function code to continue programming or press * to exit the programming mode and you will hear “ <b>three short beeps</b>”.</p>
<p style="text-align: center;"><b>91</b> <b>TOTAL NUMBER OF TENANTS</b></p>	<p><b>Step 1</b> Log on to programming mode, see instruction above. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p><b>Step 2</b> Press 91 then press #, the system will show the total number of tenant.</p> <p><b>Note:</b> A tenant directory with no name will not be included as a total number of tenant.</p>

# Chapter 4

## SYSTEM'S OPERATION

TO VIEW A TENANT NAME	<ol style="list-style-type: none"> <li>1. Press 3 to view from A-Z</li> <li>2. Press 6 to view from Z-A</li> </ol>
TO INITIATE CALL AND UNLOCK THE DOOR OR GATE	<p>Two ways to initiate a call:</p> <p><b>1. USING A SCROLLING ELECTRONIC DIRECTORY</b></p> <p><b>Step 1</b> Press 3 or 6 to scroll the tenant name, when the tenant name you are intended to call is visible on the display, then press # to initiate the call. The display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">WAIT. . . DIALING</div> <p>then it will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Wait for Answer</div> <p><b>Step 2</b> Press * to cancel the call, otherwise wait for the tenant to answer your call</p> <p><b>Step 3</b> Tenant must press 9 to unlock the door or gate.</p> <p><b>2. A DIRECT CALL</b></p> <p>You must know the tenant directory code to use a direct call.</p> <p><b>Step 1</b> Press # and wait for a dial tone, the display will show</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">DIR CODE:</div> <p><b>Step 2</b> Press the 2, 3 or 4 digit directory code, the system will initiate the call.</p> <p><b>Step 3</b> Press * if you want to cancel the call, otherwise wait for the tenant to answer your call.</p> <p><b>Step 4</b> Tenant must press the correspondent key to release the door. By default press 9 to release door 1 (relay 1) or 8 to release door 2 (relay 2).</p>
TO CALL THE SYSTEM	<p>The tenant can call to AeGIS 8000 system to communicate with their visitor. Function Code 74 must be enabled and you must know the AeGIS 8000 telephone number</p> <p><b>Step 1</b> Call the AeGIS 8000, you will <b>“two short beeps”</b> if the call is connected.</p> <p><b>Step 2</b> Press * now you re communicating with the AeGIS system.</p> <p><b>Step 3</b> You can press the associate key to unlock the door or hang-up.</p>
TO EXTEND THE TALK TIME WHILE COMMUNICATING WITH THE AeGIS 8000	<p>The talk time can be programmed from 10-180 seconds, refer to function code 79. Ten seconds before the talk time expire, you will one long beep.  <b>The tenant must press # to extend the talk time to another cycle.</b></p>
TO PROVIDE REMOTE ACCESS	<p>Press 9 to unlock door 1 or 8 to unlock door 2 by default. You can change the remote access number, see function code 20 and 21.</p>
TO CALL TO A VOICE MAIL OR EXTENSION	<p>Press the voice mail or extension number after the call is connected.</p>

<b>TO USE 4-DIGIT PERSONAL ACCESS CODE</b>	Personal access code is used to unlock the door without using a key.  <b>Press * the the 4-digit access code.</b>
<b>TO CHECK THE TOTAL NUMBER OF TENANT</b>	<b>Step 1</b> Log on to programming mode, see instruction above. The display will show  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>Select Func: _ _</b> </div> <b>Step 2</b> Press 91 then press #, the system will show the total number of tenant.  <b>Note:</b> A tenant directory with no name will not be included as a total number of tenant.
<b>TO ADJUST THE LCD INTENSITY</b>	Turn the LCD adjustment pot (VR3) <b>CLOCKWISE</b> to increase or <b>COUNTER CLOCKWISE</b> to decrease the intensity.
<b>TO ADJUST SPEAKER AND MICROPHONE VOLUME</b>	Turn the speaker and microphone adjustment pot (VR2), <b>CLOCKWISE</b> to increase or <b>COUNTER CLOCKWISE</b> to decrease.

# Chapter 5

## TROUBLE SHOOTING GUIDE

DISPLAY PROBLEMS	SOLUTIONS AND SUGGESTIONS
The display is blank.	<ul style="list-style-type: none"> <li>• Check system's power, make sure is ON. The power LED2 must be ON. If the LED2 is OFF, check the power switch, it must be switched to the left for ON.</li> <li>• Check the fuse (1.5 A 250 Volt).</li> <li>• Check the input power (12.5 -13.5 VAC or 13.5 -14.5 VDC)</li> <li>• Check the LCD's ribbon cable connections. The red line must be facing up.</li> <li>• Adjust the LCD intensity by turning (VR3) clockwise.</li> <li>• Turn the power OFF wait for 15 seconds and turn it ON.</li> </ul>
The LCD shows ???????	<ul style="list-style-type: none"> <li>• Turn the system OFF wait for 15 seconds and turn it ON.</li> <li>• Check the input power (12.5 - 13.5 VAC or 13.5 - 14.5 VDC).</li> <li>• Check the RAM's battery (BT1) at lower right corner, make sure it still attaches to the board.</li> <li>• Turn the system OFF and remove the battery jumper (JP2) at lower right and turn the system ON.</li> <li>• Erase the system memory to factory default.</li> <li>• Set system's time and date.</li> </ul>
The LCD shows eight squares.	Do the same process as above (The LCD shows ?????).
AUDIO PROBLEMS	SOLUTIONS AND SUGGESTIONS
No Audio when key(s) is pressed.	<ul style="list-style-type: none"> <li>• The LCD must show a welcome message, if not see <b>the display is blank problem</b> above for troubleshooting.</li> <li>• Check the power.</li> <li>• Function code 75 is enabled.</li> <li>• The the speaker impedance (19 -24 ohm). The speaker plug in connector must ne disconnected before measuring the impedance.</li> </ul>
No dial tone when # is pressed.	<ul style="list-style-type: none"> <li>• Make sure the speaker's blue connectors is connected.</li> <li>• Make sure the LCD shows a welcome message.</li> <li>• Check the speaker impedance (19 - 24 ohm).</li> <li>• Check the incoming phone line by unplugging the telephone cord from the system and plug the cord to your telephone set.</li> </ul>
The visitor cannot hear the tenant from the system but the tenant can hear the visitor.	Do the same process as above (no audio/no dial tone).
The visitor can hear the tenant from the system but the tenant cannot hear the visitor.	<ul style="list-style-type: none"> <li>• Check the system's microphone, make sure nothing blocking the microphone such as sticker, dust or bubble gum.</li> <li>• The blue connector must be plug in.</li> </ul>
COMMUNICATION PROBLEMS	SOLUTIONS AND SUGGESTIONS
Cannot call from the system.	<ul style="list-style-type: none"> <li>• Check if the problem occurs for all calls.</li> <li>• Press #, make sure you hear a dial tone.</li> <li>• If no dial tone, check the incoming phone line.</li> <li>• Check the phone number on the system programming, you may need the area code (call your local provider).</li> </ul>
Radio Station interference.	<ul style="list-style-type: none"> <li>• if the problem occurs on all tenants, use shielded wires for telephone line and ground one end of the shielded to the earth ground.</li> <li>• If the above suggestion did not solve the problem, reroute the telephone wires.</li> <li>• If the above actions did not solve the problem, install an RF filter.</li> </ul>
Static Problem	Check the incoming phone line with a telephone set.
The system's sound is ON and OFF while talking with the tenant.	<ul style="list-style-type: none"> <li>• The system is not full-duplex, if the environment is noise you will have this experience.</li> <li>• Speak further from the system.</li> </ul>

<b>GATE PROBLEMS</b>	<b>SOLUTIONS AND SUGGESTIONS</b>
<b>Remote access does not unlock the door or gate.</b>	<ul style="list-style-type: none"> <li>• Check the remote open door number to release the door or gate on function code 20 and 21.</li> <li>• Check if the problem occurs on all tenants.</li> <li>• If the display shows door open, check the system's relay using an ohm meter. The meter should read a closed circuit across the RC1 and NO1 or RC2 and NO2 or open circuit across the RC1 and NC1 or RC2 and NC2.</li> <li>• If the wires are connected to RC1 and NO1 or RC2 and NO2, jumper the two pins and the door should unlock. If the wires are connected to RC1 and NC1 or RC2 and NC2, remove the wire on RC1 or RC2 and the door should unlock.</li> </ul>
<b>4-digit access code does not unlock the door or gate.</b>	<ul style="list-style-type: none"> <li>• If the display shows door open, check the system's relay using an ohm meter. The meter should read a closed circuit across the RC1 and NO1 or RC2 and NO2 or open circuit across the RC1 and NC1 or RC2 and NC2.</li> <li>• If the wires are connected to RC1 and NO1 or RC2 and NO2, jumper the two pins and the door should unlock. If the wires are connected to RC1 and NC1 or RC2 and NC2, remove the wire on RC1 or RC2 and the door should unlock.</li> <li>• Check the input power (12.5 VAC - 13.5 VAC or 13.5 VDC - 14.5 VDC). If the input voltage is lower than the above range specified, the on board relay will not work properly.</li> </ul>
<b>KEYPAD PROBLEMS</b>	<b>SOLUTIONS AND SUGGESTIONS</b>
<b>Some of the keypad's keys do not work.</b>	<ul style="list-style-type: none"> <li>• Check the connection between the keypad ribbon cable and the main board, the red line must be facing up.</li> <li>• Disconnect the keypad's ribbon cable then reconnect it.</li> </ul>

## GENERAL FCC REQUIREMENTS

This equipment complies with Part 68 of the FCC rules. Located on the back of your AeGIS system is a label that contains, among other information, the FCC registration and ringer equivalence number (REN) for the system. Prior to installing your AeGIS system, please call your telephone company and provide them the FCC registration and REN numbers as well as the telephone number of the line to which you will connect the system.

Your AeGIS system connects to the telephone line by means of a standard jack called the USOC RJ11C. If this type of jack is not available at the location you want to install your AeGIS system, you will need to call your telephone company and order one.

Your AeGIS system connects to the Public Switching Telephone Network via standard-device telephone lines. **IT SHOULD NOT BE CONNECTED TO "PARTY" OR "COIN SERVICE" LINES.**

Should you have any questions about the telephone line you intend to connect your AeGIS system to, or other questions such as how many other devices you can connect to your telephone line, your telephone company will provide you upon request.

In the unlikely event your AeGIS system develops a problem, **IMMEDIATELY DISCONNECT IT FROM YOUR TELEPHONE LINE** to avoid harmful causes to the telephone network.

If repairs are ever needed on your AeGIS system, **ONLY** Pach and Company technician should perform them. Please contact our **Toll Free Technical Service Department at 888-678-7224** for immediate assistance.

Should your telephone company determine that your AeGIS system developed a problem, they may notify you in advance that temporary discontinuance of service may be required. In some cases advance notice isn't practical, so your telephone company will notify you as soon as possible. You will also be advised by your telephone company of your right to file complaint with the FCC if you believe it necessary.

From time to time the Telephone Company may make changes to its facilities equipment, operations, or procedures that could affect the operation of your AeGIS system. If this happens, the Telephone Company will provide advanced notice in order for you to make the necessary modifications to your AeGIS system to maintain uninterrupted service.

# AeGIS 8000 SERIES QUICK REFERENCE GUIDE

## LOCAL PROGRAMMING

- 1) PRESS 0 AND # SIMULTANEOUSLY THEN RELEASE**, the display screen stops scrolling (If the display screen is still scrolling repeat this step again) then enter the valid 4-digit Master Code (default Master Code: 0000). Now, you are in programming mode and see table below to continue.
- 2) IF YOU DO NOT HAVE A VALID MASTER CODE**, open the panel (key must be used) then press and release the **"RED BUTTON"** on the board and the display shows: **x x x x: 4-digit Master Code**, then press #. Now, you are in programming mode and see table below to continue.

## SYSTEM'S OPERATION

**TO PLACE A CALL FROM THE AeGIS 8000 SERIES:**

Press 3 to scroll the tenant name from A to Z. or Press 6 to scroll the tenant name from Z to A, then press #.

**TO PLACE A DIRECT CALL:**

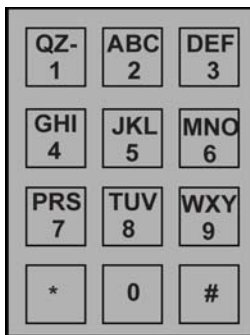
Press #, wait for a dial tone then press the 2, 3 or 4 digit directory number.

**TO GRANT ACCESS TO VISITOR:** Press 9 or 8 (default Setting) to release door 1 or door 2. Remote access number can be changed to user preference on function code 20 and 21.

**TO USE THE 4-DIGIT ACCESS CODE:** Press \* then the 4-digit code.

**TO EXTEND THE TALK TIME:** Tenant must press the # after the time-out warning beep, the talk time will be extended to another cycle.

**TO CALL INTO THE AeGIS 8000 SERIES:** Dial the AeGIS phone number, you hear "ONE SHORT BEEP" if you are connected then press \* to communicate with the visitor and press 9 or 8 (default setting to unlock the door 1 and door 2).



- Press "0" key for space or move cursor to the right.
- Press "8" then "0" for backspace or move cursor to the left.
- Press "\*" to clear or reset the lettering sequence. Sometimes the letter key strokes are out of sequence, press "\*" to reset.

FUNCTION CODE	DESCRIPTION	FUNCTION CODE	DESCRIPTION
*	Exit programming mode, clear the field and reset keystroke.	<b>17</b>	Set Current Date
#	To accept program.	<b>19</b>	Enable or disable event recording.
<b>00</b>	Change unit master code.	<b>20</b>	Open door number select 1-9
<b>01</b>	Add a tenant (new tenant only).	<b>21</b>	Open door number select 1-9
<b>02</b>	Modify an existing tenant.	<b>40</b>	Master Code Mask. Read instruction.
<b>03</b>	Delete an existing tenant.	<b>46</b>	Display system's information.
<b>04</b>	Clear all tenants.	<b>50</b>	Clear the EEPROM memory to factory default.
<b>05</b>	Manual Unlock Door 1. • Enter 01-98 hours • Enter 99 to unlock hold. • Enter 00 to lock.	<b>70</b>	Modem Protocol. "1"= V22, "0" = Bell212.
<b>06</b>	Manual Unlock Door 2. Same selection as function code 05.	<b>71</b>	Enable or disable modem. Default setting is enabled.
<b>07</b>	Single or Multi System (default setting is single).	<b>72</b>	Change lock-out count (1-9). Default setting is 3.
<b>08</b>	Not applicable	<b>73</b>	Tone or pulse dialing. Default setting is tone.
<b>09</b>	Directory Digit (2, 3 and 4 digits). Default setting is 3-digit.	<b>74</b>	Enable or disable auto answer. Default setting is enabled.
<b>10</b>	Edit welcome screen.	<b>75</b>	Enable/Disable key-press beep.
<b>11</b>	Door 1 open interval (04-99 seconds). Default setting is 12 seconds.	<b>76</b>	Enable/Disable speaker beep.
<b>12</b>	Door 2 open interval (04-99 seconds). Default setting is 12 seconds.	<b>77</b>	Enable/Disable PBX
<b>14</b>	Set Time (Military time)	<b>78</b>	View directory and name
<b>15</b>	Daylight Saving Time	<b>79</b>	Talk Time (10-180 Seconds)
<b>16</b>	Display current Date	<b>91</b>	Not Available.