AeGIS 7000 Series

Installation and Programming Manual

REV. 7.0

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LIMITATIONS OF LIABILITY

This manual is subject to change without notice.

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 7000 Series. Pach and Company does not assume liability for any incompatibility between the AeGIS 7000 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 7000 Series (7025, 7050, 7100, 7150,7200 or 7250) Telephone Access Control Systems.

The manual is designed to guide you through the proper programming and use of the AeGIS 7000 Series. It is important for you to read and follow the manual completely.

The Aegis 7000 Series comes with two years warranty, see section 1.4 for more detail on warranty policy.

1.2 System Description, Specifications and Accessories

AeGIS 7000 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 uses a dedicated phone line 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 tenants MUST have a telephone to allow remote visitor access.

Also, as a standard feature, the tenant is allowed to "call" the Aegis unit and converse with the visitor and "remote programming" using a touch tone phone.

The system parameters and tenants data will be entered via the keypad and the LCD provides easy display. EEPROM technology is used for AeGIS 7000 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 personal access code.
- 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.
- Remote Phone Programming.
- Works behind a PBX to dial extensions (analog only).
- Keypad Activated to support Voice Mail.
- 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: 500mA idle, 700mA 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.

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

Ringer Equivalence: 0.6B

Mounting: Surface or Full-Flush.

Construction: 16-gauge stainless steel

Shipping: 11 lbs. or 5 kg. Approximate

Dimensions: 10.75" (27.3Cm) x 8.5" (21.6Cm) x 3.125" (7.9Cm) (HWD)

Specifications subject to change without prior notice

Accessories and Replacement Parts:

PART NUMBER	PART NUMBER
FFM7 full-flush mounting ring for 7000FF Series	**AKYSN** new keys round type
ASP1 power and telephone surge protector	**ABAT1** 12VDA 4.5 Ahr baterry back-up
AHP5 heater pad	**7MAN** replacement manual. Available also on line.
APM1 single arm pedestal for car and pedestrian	**7LENS** replacement LCD's lense
APM2 double arm for auto, pedestrian and semi-truck.	**7LTKT** night light kit
APM3 single arm for semi-truck	**ARIGB7** rough-in box for full-flush installation
APM5 double arm side by side	**ABHSE7** battery housing
APMDB1 single arm direct burial	**ARFR** radio frequency receiver
AP7 adapter plate for mounting on APMs	**ARFT** radio frequency transmitter fob
XFMR transformer 12VAC 40VA	**ARFHT** radio frequency transmitter sunvisor mount
AVPC pin-hole size color camera for all telephone entry	
AKYSO 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 7000 Series. If you have missing items, please contact your distributor or Pach and Company at (888) 678-7224.

- AeGIS 7000 Series System (7050, 7150 or 7250).
- XMFR (Power Transformer, 12VAC 40VA).
- 2-pin terminal connector (inside the cabinet)
- 4-pin terminal connector (inside the cabinet).
- 5-pin terminal connector (inside the cabinet).
- Key sets (2 keys per set)
- RJ-11 adapter (inside the unit's cabinet).
- Owners Manual.

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.

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 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.
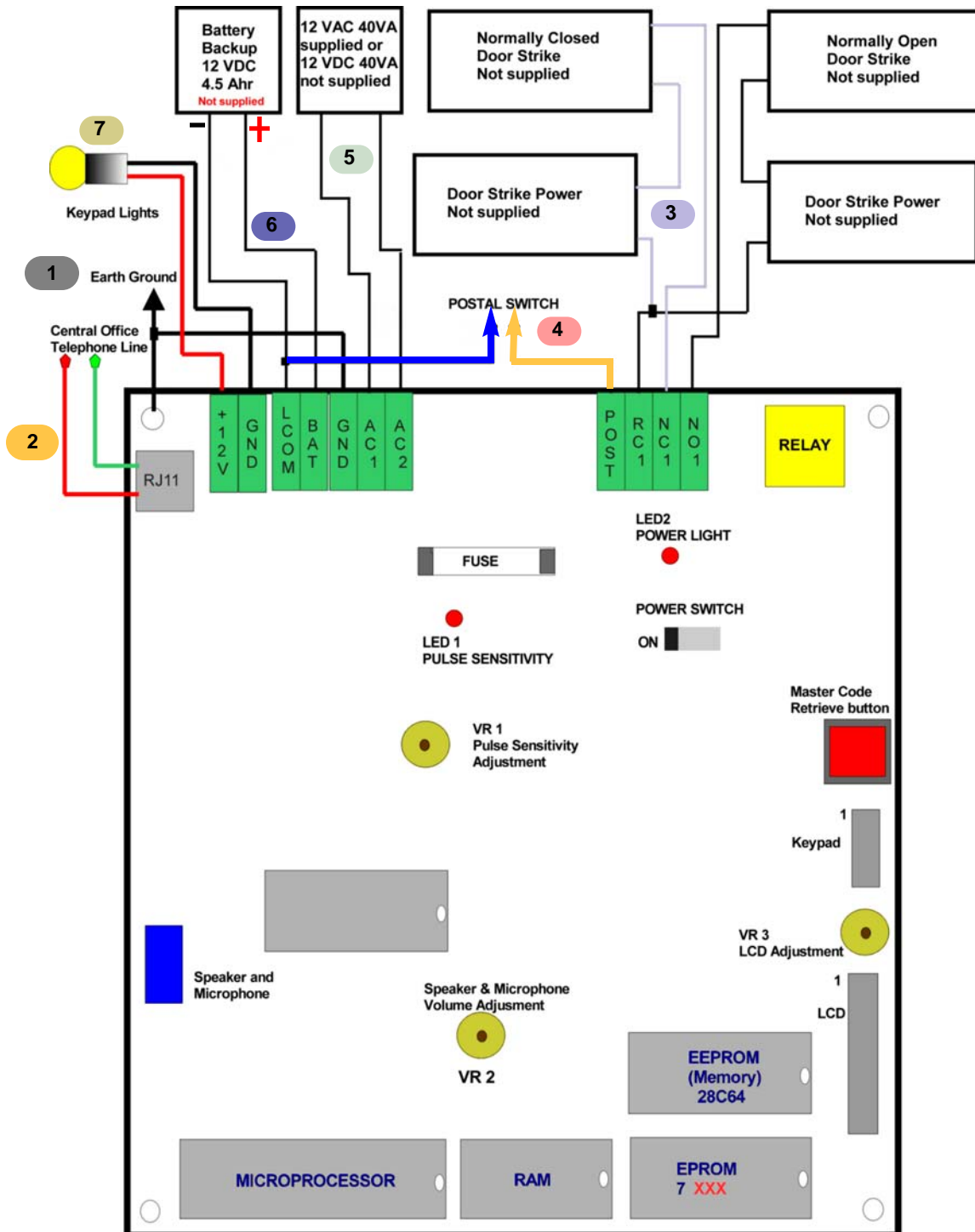
Figure 2.1

① GROUNDING

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

- Use 18-gauge solid wire for grounding.
- Installing a ground steel rod from the AeGIS steel enclosure to the earth 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. The Pach and Company "**Two Years Warranty**" will include lightning if Pach and Company Surge Protector (ASP1) is installed. One surge protector must be used for each AeGIS 7000 system. You must claim the damages to the manufacturer of the surge protector, if another manufacturer surge protector is installed.

- Twisted pair category 5 is the minimum requirement if the distance less than 200 feet. Shielded wires are recommended to avoid radio reception or any other noise problems. If the distance is more than 200 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 connect the AeGIS to the analog PBX's extension to dial the extensions within the PBX. Do not connect to a PBX's Digital Port.
  NOTE: The AeGIS 7000 Series only works behind the PBX to dial extensions, no pause can be programmed on the AeGIS 7000 to dial the outside line.

③ DOOR STRIKE OR ELECTRICAL STRIKE

The AeGIS 7000 series provides a single relay form "C" dry contact: Normally Open (NO) and 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. You MUST use two conductors 18 gauge stranded wire minimum.

Note: Some door strikes are creating electrical or 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.

④ POSTAL LOCK

The AeGIS system 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. See figure 2.2 to alter the postal switch to normally closed.
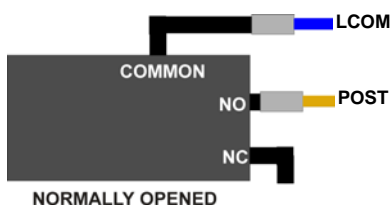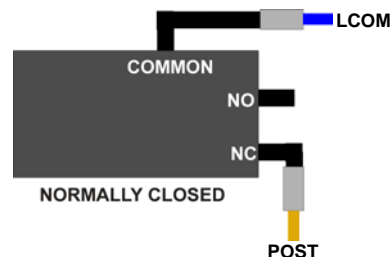
Figure 2.2 (a)

Figure 2.2 (b)

5 POWER

A 12 VAC 40VA transformer is supplied by Pach and Company. However, 12 VDC 40VA power supply or 12VDC power supply with battery backup can be used to power the AeGIS 7000 Series, use the same connection as shown on figure 2.1.

- Two conductors, 18-gauge shielded stranded wires must be used. Ground one end of the shielded to earth ground. **See installation instruction if ASP1 Surge Protector is used.**
- Do not share power transformer or power supply between the AeGIS and other electronic equipment.
- Turn the power "ON" (left position). The Power Light Emitting Diode (LED2) should be "ON". You should see "Welcome to Pach's Telephone Access Systems" on the Liquid Crystal Display (LCD). If the display is blank, turn the system off and see Chapter 4.0 Operations and Chapter 6.0 Trouble Shooting Guides.

6 BATTERY BACKUP

The AeGIS 7000 Series have built-in charging circuit for battery backup. The battery will keep the system in full operation during power failure. Recommended battery is 12 VDC, 4.5 Ahr rechargeable (customer supply). The life of the battery is approximately 8 hours in idle mode.

- Use two conductors 8-gauge shielded stranded wires.

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

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NIGHT LIGHT

14V 0.080A 15,000 Average life hours light bulbs. Use the same rating of replacement light bulb.

Chapter 3
PROGRAMMING

The AeGIS 7000 Series can be programmed locally using the built-in keypad or remotely via a touch tone phone.

3.1 LOCAL PROGRAMMING VIA BUILT-IN KEYPAD

Log on to programming mode

Two ways to log on to programming mode:

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, the   display shows:

> **Select Func: _ _**

and proceed to Local Programming Table 3.1. If the system idles in 30 seconds, the display will return to a scrolling mode.

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:

> **Master Code: x x x x**   x x x x: 4-digit Master Code.

then press #. Now, you are in programming mode and proceed to Local Programming Table 3.1. If the system idles in 30 seconds, the display will return to a scrolling mode.

3.2 REMOTE PROGRAMMING VIA A TOUCH TONE PHONE

You may use Telephone Remote programming to add a tenant, delete or modify the system's parameter. The rules below must be followed:

- Enable the system Auto Answer (see table 3.1 Function Code 74-Enable or Disable Auto Answer), the AeGIS 7000 Series will answer on the first ring.
- Do not share the AeGIS 7000 phone line with any answering devices such as a fax machine, alarm device or modem.
- A touch-tone phone must be used.
- Only letter A-Z can be entered using a touch-tone phone for a person name. No punctuation or number can be entered.
- A person name only in upper case.

Log on to programming mode

1) SINGLE SYSTEM

Step 1   Call the AeGIS 7000. When the system answer you will hear:
> ***One Short Beep***: Door is opened.
> ***Two Short Beeps***: Door is closed.

Press # key

Step 2   Press your valid Master Code.

- If your Master Code is accepted, you will hear ***Two Short Beeps*** and now, you are in the programming mode and proceed to Touch Tone Programming Table 3.1.
  Note: If the system idles in 30 seconds, the display will return to a scrolling mode.
- If your Master Code is rejected, the system will disconnect.

2) MULTI-SYSTEM IN SINGLE TELEPHONE LINE

Step 1   Call into the AeGIS 7000 using a touch tone phone. When the system answer you will hear:
- *One Short Beep*: Door is opened.
- *Two Short Beeps*: Door is closed.
- **One Long Beep**: Combination of Closed and open.

Step 2   Press the System Number you want to log in (1-8) then press # key.

Step 3   Press your valid Master Code.
- If your Master Code is accepted, you will hear **Two Short Beeps** and you are in the programming mode, then proceed to Touch Tone Programming Table 3.1.
  Note: If the system idles in 30 seconds, the display will return to a scrolling mode.
- If your Master Code is rejected, the system will disconnect.

Step 4   Follow the next programming sections below to program the tenant database and parameters.

TABLE 3.1 PROGRAMMING FUNCTION CODES

FUNCTION CODE	LOCAL PROGRAMMING	TOUCH TONE PROGRAMMING
∗	1. Exit the programming mode by pressing ∗ once or twice. 2. Clear the programmed name, phone number or access code by pressing ∗ 3. Press ∗ then the 4-digit access code to unlock the door or gate via the system keypad.	Not applicable.
#	Press # to accept program.	Press # to accept program.
00 **REPLACE SYSTEM MASTER CODE** (**Default setting is 0000**) Master Code is used to log on to programming mode, not to unlock door or gate.	**Step 1** Log on to programming mode (see section 3.1). The display shows Select Func: _ _ **Step 2** Enter Function code 00, then press #, the display shows Master Code: 0000 **Step 3** Enter the new 4-digit Master Code then press # the display shows Select Func: _ _ If you press ∗ the display shows ERROR DATA ∗ ∗ ∗ ∗ Ignore the message, and your existing Master Code will remain in the system. **Step 4** Select another Function Code to program different field from the table or press ∗ to exit the programming mode and you hear "**Three Short Beeps**".	**Step 1** Log on to programming mode, see section 3.2. If you have logged on. Proceed to step 2. **Step 2** Enter Function Code 00 and press #, you will hear "**One Short Beep**". **Step 3** Enter the new Master Code and press #, and you will hear "**Two Short Beeps**". **Step 4** Select another Function Code to program another parameter or press 91 then press # to disconnect the call, you will hear "**Three Short Beeps**".

FUNCTION CODE	LOCAL PROGRAMMING	TOUCH TONE PROGRAMMING

01

PROGRAM A NEW TENANT

There are four different fields that need to be programmed: Directory Code (DIR), Name, Phone Number (PH #), and Access Code.

Directory Code (DIR): A unique (non-duplicating) 2, 3 (factory default) or 4 digit code assigned for each tenant for identification (Used Function Code 06 to Change Directory Digits). It links to tenant name, phone number and access code. The same number of digit must be used on every tenant's directory.

Name: up to 16 characters.

Phone Number: up to 11-digit.

Access Code: A 4-digits personal code is assigned to individuals for the purpose of granting entry using the Telephone Entry Systems keypad.

Please note the following criteria before entering the tenant Directory Code, Name, Phone Number and Access Code.

1. The Directory Codes can NOT be duplicated.
2. Each Directory Code is considered as one tenant.
3. The existing Directory Codes cannot be changed by another directory code. They can be deleted using Function Code "03".
4. Delete the unused directory code to avoid running out of memory.
5. The Tenant Directory database must contain name. Tenant Directory cannot be deleted if the directory code is forgotten and no name is programmed.
6. The tenant names may be entered in any order. The system will automatically arrange them it alphabetical order.
7. The same Name, Telephone Number and Access Code can be assigned into different directory code number.

LOCAL PROGRAMMING

Step 1 Log on to programming mode (see section 3.1), the display shows

> Select Func: _ _

Step 2 Enter Function Code 01 then press #, the display shows:

> Enter Dir: _ _ _

Step 3 Enter the directory code (see setting on function code 06) 2, 3 (default) or 4-digit. The display shows:

> Enter the NAME:

The display goes blank about one second then the display shows:

> _

Proceed to Step 4.

If the directory code has already used, the display shows:

> Dir # is used !

Return to Step 2.

If the memory is full, the display shows:

> ERROR DATA * * * *

You cannot program more tenant unless if you delete the existing one or call Pach and Company to purchase memory upgrade EPROM.

Step 4 Enter the tenant name (up to 16 characters) using the keypad (see keypad layout) then
  • Press # after entering each letter then
  • Press # # after entering the last letter
the display shows:

> PH #: _ _ _ _ _ _ _ _ _ _ _

QZ-1	ABC 2	DEF 3
GHI 4	JKL 5	MNO 6
PRS 7	TUV 8	WXY 9
*	0	#
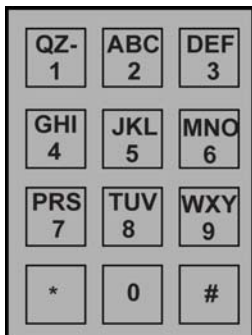
Press 0 for space (move cursor to the right).
Press 8 then 0 for back space (move cursor to the left.
Press * to clear all letters or numbers entered.

TOUCH TONE PROGRAMMING

Step 1 Log on to programming mode, see section 3.2 If you have logged on proceed to step 2.

Step 2 Enter Function Code 01 then press #, you hear *"One Short Beep"*.

Step 3 Enter a tenant directory code (2, 3 or 4 digits) then press # and you hear *"One Short Beep"*. If the directory has already existed, you hear *"Two Long Beeps"* , return to step 2.

Step 4 Enter tenant name up to 16 characters then
  • Press # after entering each letter then
  • Press # # after entering the last letter
then you hear *"One Short Beep"*.

Step 5 Enter tenant's telephone number up to 11-digit and press #, you hear *"One Short Beep"*.

Step 6 Enter tenant's 4-digits access code number then press #, you will *"One Short Beep"*.

Step 7 Select another Function Code to program another parameter or tenant's directory, otherwise enter 91 then press # to disconnect the call, you hear *"Three Short Beeps"*.

FUNCTION CODE	LOCAL PROGRAMMING	TOUCH TONE PROGRAMMING
	For example, to enter **Pach & 12** • Press "7" key once to select the letter "P", then press #. • Press "2" key four times to select letter "a", then press #. • Press "2" key six times to select letter "c", then press #. • Press "4" key five times to select letter "h", then press #. • Press "0" key once for space • Press any key to get the & • Press "0" key once for space • Press "1" key eleven times to select number "1", then press #. • Press "1" key twelve times to select number "2", then press ##. **Step 5** Enter the tenant phone number or extension number up to 11-digit then press #, the display shows: ACCESS CODE:_ _ _ _ Note: The AeGIS 7000 Series does not provide a pause to dial. **Step 6** Enter the 4-digit access code then press #. The 4-digit code is for the tenant to to gain access into the door or gate. See operation to use the access code. **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 hear **"*Three Short Beeps*"**.	

02
 	
MODIFY AN EXISTING TENANT DIRECTORY
 	
You must know the tenant directory you want to modify. If you do not know the tenant directory, see Function Code78 View Directory by Name.
	Step 1 Log on to programming mode (see section 3.1), the display shows:
	
	Select Func: _ _
	
	Step 2 Enter Function Code 02 then press #, the display shows:
	
	Modify Dir: _ _ _
	
	Step 3 Enter the tenant directory to be modified then press # the display shows:
	
	Enter the NAME:
	
	then
	
	Tenant's name appear
	
	Step 4 • **To change name**: press * to erase and
	program a new one.
	    • Press # after entering each letter then
	    • Press # # after entering the last letter
	• **To keep name**: press #.
	
	The display shows:
	
	PH#: Tenant's Phone
		NOT AVAILABLE.

FUNCTION CODE	LOCAL PROGRAMMING	TOUCH TONE PROGRAMMING
	Step 5 • **To change phone number**: press * to erase and program a new one then press #. • **To keep the phone number**: press #. The display shows: **Access Code: X X X X** **X** is existing access code. • **To change access number**: enter a new one then press #. • **To keep the access code**: press #. **Step 6** 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 "**Three Short Beeps**".	
03 **DELETE AN EXISTING TENANT DIRECTORY** Delete an existing tenant one by one. This function code is very useful to free the system memory by deleting the unused directory.	**Step 1** Log on to programming mode (see section 3.1), the display shows: **Select Func: _ _** **Step 2** Enter Function Code 03 then press #, the display shows: **Delete Dir: _ _ _** **Step 3** Enter a tenant directory code you want to delete the press #. The display shows: **(Dir Code) is deleted !** If the directory does not exist, the display shows: **Error on Delete !** Proceed to step 2. **Step 4** 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**".	**Step 1** Log on to programming mode, see section 3.2 If you have logged on proceed to step 2. **Step 2** Enter Function Code 03 then press #, you hear "**One Short Beep**". **Step 3** Enter the tenant directory code (2, 3 or 4 digits) you want to delete then press # and you hear "**Two Short Beeps**" means directory is deleted or "**One Long Beep**" then "**Two Short Beeps**" means vice versa. **Step 4** Select another Function Code to program another parameter or tenant's directory, otherwise enter 91 then press # to disconnect the call, you hear "**Three Short Beeps**".
04 **CLEAR ALL TENANTS DIRECTORY**	**Step 1** Log on to programming mode (see section 3.1), the display shows: **Select Func: _ _** **Step 2** Enter Function Code 04 then press #, the display shows: **Delete all? 13** **Step 3** • **Press 13** then # the display shows: **Are you sure ? 5** then proceed to step 4 or	**NOT AVAILABLE.**

FUNCTION CODE	LOCAL PROGRAMMING	TOUCH TONE PROGRAMMING
	• **Press ✶** to cancel deletion and you hear *"One Long Beep"* and proceed to step 5.	
	Step 4 Press 5 then # to delete or Press ✶ to cancel deletion.	
	Step 5 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**".	
05 **MANUAL LOCK (OPEN) OR UNLOCK (CLOSE) DOOR**	**Step 1** Log on to programming mode (see section 3.1), the display shows: Select Func: _ _ **Step 2** Enter Function Code 05 then press #, the display shows: OPEN: 00 HOURS **Step 3** Enter • 01-98 hours to unlock door or • 99 hours to to unlock door for indefinite time or • 00 hours to lock door then press # or press ✶ to cancel. **Step 5** 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**".	**Step 1** Log on to programming mode, see section 3.2 If you have logged on proceed to step 2. **Step 2** Enter Function Code 05 then press #, you hear *"One Short Beep"*. **Step 3** Enter • 01-98 hours to unlock door or • 99 hours to to unlock door for indefinite time or • 00 hours to lock door then press # you will hear *"Two Long Beeps"* and *"Two Short Beeps"*. **Step 4** Select another Function Code to program another parameter or tenant's directory, otherwise enter 91 then press # to disconnect the call, you hear *"Three Short Beeps"*.
06 **SELECTING DIRECTORY DIGITS** Factory default setting is 3-digit.	**Step 1** Log on to programming mode (see section 3.1), the display shows: Select Func: _ _ **Step 2** Enter Function Code 06 then press #, the display shows: DIR DIGITS: 3 _ **Step 3** Enter the Directory Digits 2, 3 or 4 then press # or press ✶ to keep the existing one. **Step 4** 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**".	**NOT AVAILABLE.**

FUNCTION CODE	LOCAL PROGRAMMING	TOUCH TONE PROGRAMMING

07
 	
SINGLE OR MULTI SYSTEMS
(Default setting is Single)
 	
You must set the system to multi if more than one systems are installed using a single phone line. You can connect up to eight system on a single phone line.
 	
It is not necessary to set the system to multi if separate phone is used for each system.
 	
If system is set for multi, Function Code 75 (Key Press Beep) is disabled.
	Step 1 Log on to programming mode (see section 3.1), the display shows:
	
	    Select Func: _ _
	
	Step 2 Enter Function Code 07 then press #, the display shows:
	
	    SING=1, MULT=0: 1
	
	Step 3 Enter • 1 for Single system or
	                • 0 for multi systems
	then press # or press * to keep the existing one.
	
	Step 4 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*"**.
		NOT AVAILABLE.

08
 	
SYSTEM NUMBER
(Default Setting is 1)
 	
It is not necessary to set the system number if :
 	
1. Remote touch-tone programming is not used.
 	
2. Separate phone line is used for each system.
	Step 1 Log on to programming mode (see section 3.1), the display shows:
	
	    Select Func: _ _
	
	Step 2 Enter Function Code 08 then press #, the display shows:
	
	    SYSTEM # [1-8] 1
	
	Step 3 Enter the system number 1-8 then press # or press * to keep the existing one.
	
	Step 4 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*"**.
		NOT AVAILABLE.

10
 	
CHANGE THE WELCOME SCREEN
 	
Welcome screen is divided into three segments. Each segment consists of 16 characters. The welcome screen can be a combination of letter and number.
	Step 1 Log on to programming mode (see section 3.1), the display shows:
	
	    Select Func: _ _
	
	Step 2 Enter Function Code 10 then press #, the display shows:
	
	    Welcome to Pach' 1st segment
	
	Step 3 Press * to erase the **1st segment** then enter the welcome message then press # # to proceed to the 2nd segment, the display shows:
	
	    s Telephone Acce
		NOT AVAILABLE.

FUNCTION CODE	LOCAL PROGRAMMING	TOUCH TONE PROGRAMMING
	Step 4 Press ∗ to erase the **2nd segment** then enter the welcome message then press # # to proceed to the 3rd segment, the display shows: `ss System . . . * *` **Step 5** Press ∗ to erase the **3rd segment** then enter the welcome message then press # #. **Step 6** 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*"**. **Note:** See keypad correlation on page 3.	

46
 	
SYSTEM INFORMATION
 	
Display the model number and the firmware released date.
	Step 1 Log on to programming mode (see section 3.1), the display shows:
	
	`Select Func: _ _`
	
	Step 2 Enter Function Code 46 then press #, the display shows:
	
	`V7XXX   MM/DD/YY`
	
	XXX: the model number.
	MM/DD/YY: month, date, and year firmware released.
	
	Step3 Press ∗ then 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*"**.
		NOT AVAILABLE.

50
 	
CLEAR THE MEMORY TO FACTORY DEFAULT
 	
Use this Function Code will erase the whole database and and reset the system to factory default.
	Step 1 Log on to programming mode (see section 3.1), the display shows:
	
	`Select Func: _ _`
	
	Step 2 Enter Function Code 50 then press #, the display shows:
	
	`1 to confirm: _`
	
	Step 3 Press **1 to confirm** the display shows:
	
	`DB Init. Wait . . . _`
	
	and the system returns to Welcome Screen, or ∗ **to cancel** and proceed to step 3.
	
	Step4 Press ∗ then proceed to step 2 and select the same Function Code or different Function Code
		NOT AVAILABLE.

FUNCTION CODE	LOCAL PROGRAMMING	TOUCH TONE PROGRAMMING
	to continue programming or press * to exit the programming mode and you will hear **"Three Short Beeps"**.	
70 **CHANGE TALK TIME** **(Default setting is 60 seconds)** The talk time is the length of time the visitor can talk to the tenant. The talk time timer starts as soon as the system initiates the call.	**Step 1** Log on to programming mode (see section 3.1), the display shows: Select Func: _ _ **Step 2** Enter Function Code 70 then press #, the display shows: TALK TIME: 060 **Step 3** Enter Talk Time Value in 3-digit mode (010 - 180) seconds the press #. **Step4** Press * then 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"**.	**Step 1** Log on to programming mode, see section 3.2 If you have logged on proceed to step 2. **Step 2** Enter Function Code 70 then press #, you hear **"One Short Beep"**. **Step 3** Enter the talk time in 3-digit mode (10-180 seconds) and press # and you will hear **"Two Short Beeps"**. **Step 4** Select another Function Code to program another parameter or tenant's directory, otherwise enter 91 then press # to disconnect the call, you hear **"Three Short Beeps"**.
71 **CHANGE DOOR OPEN INTERVAL** **(Default setting is 12 seconds)** The Door Open Interval is the length of time the relay turns on.	**Step 1** Log on to programming mode (see section 3.1), the display shows: Select Func: _ _ **Step 2** Enter Function Code 71 then press #, the display shows: OPEN TIME: 12 **Step 3** Enter the Open Time value in 2-digit mode (04-99) seconds then press #. **Step4** Press * then 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"**.	**Step 1** Log on to programming mode, see section 3.2 If you have logged on proceed to step 2. **Step 2** Enter Function Code 71 then press #, you hear **"One Short Beep"**. **Step 3** Enter the Open Time value in 2-digit mode (04-99) seconds then press # and you will hear **"Two Short Beeps"**. **Step 4** Select another Function Code to program another parameter or tenant's directory, otherwise enter 91 then press # to disconnect the call, you hear **"Three Short Beeps"**.
72 **CHANGE LOCK OUT COUNT** **(Default setting is 3)** The system is disabled if invalid access code has been entered according to the lock out count sets on Function Code 72. The system will ignore further access code entries for 90 seconds.	**Step 1** Log on to programming mode (see section 3.1), the display shows: Select Func: _ _ **Step 2** Enter Function Code 72 then press #, the display shows: LOCK-OUT CNT: 3 **Step 3** Enter the lock out count in one-digit mode (1-9). **Step4** Press * then proceed to step 2 and select the	**Step 1** Log on to programming mode, see section 3.2 If you have logged on proceed to step 2. **Step 2** Enter Function Code 72 then press #, you hear **"One Short Beep"**. **Step 3** Enter the Lock Out Count value in one-digit (04-99) seconds then press # and you will hear **"Two Short Beeps"**. **Step 4** Select another Function Code to

FUNCTION CODE	LOCAL PROGRAMMING	TOUCH TONE PROGRAMMING
	same Function Code or different Function Code to continue programming or press ∗ to exit the programming mode and you will hear **"Three Short Beeps"**.	program another parameter or tenant's directory, otherwise enter 91 then press # to disconnect the call, you hear **"Three Short Beeps"**.
73 **SELECT TONE OR PULSE DIALING** **(Default setting is tone)** If set to Tone: pulse phone can't unlock the door by pressing 9. If set to pulse: both tone and pulse phone can unlock the door by pressing 9.	**Step 1** Log on to programming mode (see section 3.1), the display shows: Select Func: _ _ **Step 2** Enter Function Code 73 then press #, the display shows: TONE=1 PULSE=0: 1 **Step 3** Enter **1 for Tone** or **0 for Pulse** then press #. **Step4** Press ∗ then 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"**.	**Step 1** Log on to programming mode, see section 3.2 If you have logged on proceed to step 2. **Step 2** Enter Function Code 73 then press #, you hear **"One Short Beep"**. **Step 3** Enter **1 for Tone** or **0 for Pulse** then press #, then press # and you will hear **" Two Short Beeps"**. **Step 4** Select another Function Code to program another parameter or tenant's directory, otherwise enter 91 then press # to disconnect the call, you hear **"Three Short Beeps"**.
74 **ENABLE OR DISABLE AUTO ANSWER** **(Default setting is Enable)** If Enable, the system will answer an incoming call. If disable, the system will not answer an incoming call. This feature is useful if: • Remote touch-tone programming is used or • For the tenant to call the system in case the tenant is not available at the time the visitor call.	**Step 1** Log on to programming mode (see section 3.1), the display shows: Select Func: _ _ **Step 2** Enter Function Code 74 then press #, the display shows: Auto Answer=1 : 1 **Step 3** Enter **1 to Enable** or **0 to Disable**, then press #. **Step4** Press ∗ then 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"**.	**NOT AVAILABLE.**
75 **TURN ON OR OFF KEY PRESS BEEP** **(Default setting is ON)** If ON, the system beep if key is pressed. If OFF, the system does not beep if the key is pressed. If the system is set for Multi (see Function Code 07),	**Step 1** Log on to programming mode (see section 3.1), the display shows: Select Func: _ _ **Step 2** Enter Function Code 75 then press #, the display shows: BEEP On=1 OFF=0: 1 **Step 3** Enter **1 to turn ON key press beep** or **0 turn OFF key press beep**, then press #.	**Step 1** Log on to programming mode, see section 3.2 If you have logged on proceed to step 2. **Step 2** Enter Function Code 75 then press #, you hear **"One Short Beep"**. **Step 3** Enter **1 to turn ON key press beep** or **0 to turn OFF key press beep** then press #, then #and you will hear **"Two** press **Short Beeps"**.

FUNCTION CODE	LOCAL PROGRAMMING		TOUCH TONE PROGRAMMING	
this function will be disabled	**Step4**	Press ∗ then 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"**.	**Step 4**	Select another Function Code to program another parameter or tenant's directory, otherwise enter 91 then press # to disconnect the call, you hear **"Three Short Beeps"**.
76 **TURN ON OR OFF SPEAKER BEEP** **(Default setting is ON)** If ON, the system beep if the door is unlocked. If OFF, the system does not beep if the door is unlocked.	**Step 1**	Log on to programming mode (see section 3.1), the display shows: Select Func: _ _	**Step 1**	Log on to programming mode, see section 3.2 If you have logged on proceed to step 2.
	Step 2	Enter Function Code 76 then press #, the display shows: UnlockBeep (1,0): 1	**Step 2**	Enter Function Code 76 then press #, you hear **"One Short Beep"**.
	Step 3	Enter **1 to turn ON unlock beep** or **0 to turn OFF unlock beep**, then press #.	**Step 3**	Enter **1 to turn ON unlock beep** or **0 to turn OFF unlock beep**, then press # and you will hear **" Two Short Beeps"**.
	Step4	Press ∗ then 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"**.	**Step 4**	Select another Function Code to program another parameter or tenant's directory, otherwise enter 91 then press # to disconnect the call, you hear **"Three Short Beeps"**.
77 **ENABLE REMOTE ACCESS** (NOT APPLICABLE ON NEWER SYSTEM) **(Default setting is Enabled)** If Enable, the system will unlock the door if 9 is pressed. If Disable, the system will not unlock the door if 9 is pressed.	**Step 1**	Log on to programming mode (see section 3.1), the display shows: Select Func: _ _	**NOT AVAILABLE ON NEWER SYSTEM**	
	Step 2	Enter Function Code 77 then press #, the display shows: ENA=1 DISA=0: 1		
	Step 3	Enter **1 to Enable remote access** or **0 to dis able remote access**, then press #.		
	Step4	Press ∗ then 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"**.		
78 **VIEW DIRECTORY BY NAME** This Function Code is very useful to find the tenant directory.	**Step 1**	Log on to programming mode (see section 3.1), the display shows: Select Func: _ _	**NOT AVAILABLE.**	
	Step 2	Enter Function Code 78 then press #, and the name in alphabetical order shows on the display (press 3 to scroll A-Z or 6 to scroll Z-A).		
	Step 3	Press # to display the directory code.		

FUNCTION CODE	LOCAL PROGRAMMING		TOUCH TONE PROGRAMMING
	Step4	Press * then 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*"**.	
91 **EXIT FROM REMOTE PROGRAMMING**	**NOT AVAILABLE.**		Press 91 then press # to disconnect the call, you hear *"Three Short Beeps"*.

Chapter 4
SYSTEM'S OPERATION

HOW TO VIEW THE TENANT NAME.	Two ways to view the tenant name:
	    1. Press 3 to scroll the tenant name from A to Z.
	    2. Press 6 to scroll the tenant name from Z to A.

HOW TO INITIATE A CALL AND UNLOCK THE DOOR FOR VISITOR.	Two way to initiate a call:
	
	1. USING THE SCROLLING ELECTRONIC DIRECTORY
	
	Step 1 **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 shows:
	
	                              WAIT . . . DIALING
	
	then it shows:
	
	                              Wait for Answer
	
	Step 2 Press ∗ to cancel the call, otherwise wait for the tenant to answer your call.
	
	Step 3 **Tenant must press 9 to unlock the door.**
	
	2. A DIRECT CALL
	
	You must know the tenant directory number to use a direct call. The tenant directory number can be associated with apartment number, suite number, etc..
	
	Step 1 Press # and wait for a dial tone, the display shows:
	
	                              DIR CODE:
	
	Step 2 Press the 2, 3 or 4 digit directory number, the system will initiate the call.
	
	Step 3 Press ∗ to cancel the call, otherwise wait for the tenant to answer your call.
	
	Step 4 **Tenant must press 9 to unlock the door.**

HOW TO EXTEND THE TALK TIME	The talk time can be programmed from 10 - 180 seconds. You will hear *" One Long Beep"* **ten seconds** before the talk time expires. The tenant must **press #** immediately to extend the talk time to another cycle. For example: if the talk time is set for 30 seconds, pressing # will extend for another 30 seconds. You can continue pressing the # to extend the talk time after the " One Long Beep".
HOW TO CALL INTO THE SYSTEM.	The AeGIS 7000 will accept an incoming call from tenant and tenant can talk to his or her visitor. **Function Code 74 (Enable or Disable Auto Answer) must be set to 1**. The feature is very useful if for some reason you are not available to answer the visitor call and you can call into the system later on. This feature is not available if multi systems are installed on a single phone line. **Step 1** Call the system (you must know the phone number) then you hear "***One Short Beep***" if the call is connected. **Step 2** Press ∗ to talk to the visitor then press 9 to unlock the door or hang up.

HOW TO PROVIDE REMOTE ACCESS	Press 9 to unlock the door.
HOW TO DISABLE REMOTE ACCESS	Function Code 77 is to disable remote access. Disabling remote access means disable number 9 from unlocking the door.
HOW TO CALL TO A VOICE MAIL OR EXTENSION NUMBER	Press the voice mail or extension number after the call is connected.
HOW TO USE THE 4-DIGIT ACCESS CODE TO UNLOCK THE DOOR.	The personal Access Code is used to unlock the door without using the key. It is not mandatory for the manager to provide a personal access code for each tenant. If you decide not to provide a personal access code to each tenants, all you have to do is to leave the **Access Code Field** blank when you program the tenant directory. See Function code 01. **Step 1** Press ∗ and the screen stops scrolling then press the 4-digit access code.
HOW TO ADJUST THE SPEAKER AND MICROPHONE VOLUME	The speaker volume and microphone are factory preset. The adjustment pot is **VR2**, see figure 2.1. Turn the speaker volume adjustment pot **counter-clockwise to increase** or **clockwise to decrease** the speaker volume. If you hear a "feedback" when you closed the panel door, decrease the speaker and microphone volume.
HOW TO ADJUST THE LCD DISPLAY	Turn the LCD Adjustment Pot (**VR3**) **clockwise to increase** or **counter-clockwise to decrease** the intensity. See figure 2.1 to locate the LCD adjustment pot.
HOW TO ADJUST THE PULSE SENSITIVITY	The Pulse sensitivity is factory preset. An adjustment is necessary if the system is in a dial tone mode (press # to get a dial tone) and the **PULSE SENSITIVITY LED1** flashes or ON (see figure 2.1). If the **PULSE SENSITIVITY IS TOO SENSITIVE**, the system may unlock the door by itself without pressing 9. Follow the instruction below to adjust the pulse sensitivity: **Step 1** Apply power to the system and connect the phone line. **Step 2** If the **Pulse Sensitivity LED1** flashes or ON when the system is in dial tone mode (press #), decrease the pulse sensitivity by turning the Pot adjustment (**VR1**) **clockwise**, otherwise proceed to step 3. **Step 3** If the **Pulse Sensitivity LED1** does not flash or ON, press the keypad number 0-9 and the LED should be flashed every time the key number is pressed. If it does not flash, increase the sensitivity by turning the pot **counter-clockwise**.
HOW TO CHECK THE NUMBER OF THE TENANTS PROGRAMMED IN THE SYSTEM.	You cannot program the tenant's directory more than the system capacity. An accurate tenant's record is essential. You must delete any unused tenant's directory to free the system's memory. **If you program a tenant database without programming the tenant's name, the system will not record it in the memory** and you will not get an accurate number of tenant in the memory. You may check the total number of tenant in the system as follow: **Step 1** Log on to programming mode (see section 3.1), the display shows: Select Func: _ _ **Step 2** Press * to exit, then the display shows: Total Tnt: XXX **XXX** is the total number of tenant in the system.

Chapter 5
TROUBLE SHOOTING GUIDE

AUDIO PROBLEM S	SOLUTIONS AND SUGGESTIONS
NO AUDIO WHEN KEY(S) IS PRESSED	• Check the speaker and microphone connection on the board. The snap on clip connector on the speaker and microphone connector must be facing inside the board. • Check the red and orange wires, make sure they are soldered into the speaker. • Turn the power "OFF" and disconnect the speaker connector from the board. Set your meter to Ohm and use 50 Ohm scale or higher. Put the two probes into the speaker (+) and (-) (polarity not important) and the meter should read between 19 - 24 Ohms.
NO DIAL TONE WHEN THE # KEY IS PRESSED	• Check the phone line using a standard phone, make sure you get dial tone. • Check the speaker and microphone connection. The snap on clip connector on the speaker and microphone connector must be facing inside the board. • Check the red and orange wires, make sure they are soldered into the speaker. • Turn the system's power "OFF" and disconnect the speaker connector from the board. Set your meter to Ohm and use 50 Ohm scale or higher. Put the two probes into the speaker (+) and (-) (polarity not important) and the meter should read between 19 - 24 Ohms.
THE VISITOR CAN'T HEAR THE TENANT FROM THE SYSTEM BUT THE TENANT CAN HEAR THE VISITOR	• Check the speaker and microphone connection. The snap on clip connector on the speaker and microphone connector must be facing inside the board. • Check the red and orange wires, make sure they are soldered into the speaker. • Press the # key as soon as you hear a dial tone, tap your finger into the microphone and you should hear a finger tap sound from the speaker.
THE TENANT CAN'T HEAR THE VISITOR TALKING BUT THE VISITOR CAN HEAR THE TENANT	• Check the speaker and microphone connection. The snap on clip connector on the speaker and microphone connector must be facing inside the board. • Check the brown and black wires, make sure they are soldered into the microphone. • Turn the system's power "OFF" and disconnect the speaker connector from the board. Set your meter to Ohm and use 50 Ohm scale or higher. Put the two probes into the speaker (+) and (-) (polarity not important) and the meter should should read between 19 - 24 Ohms.
DISPLAY PROBLEM S	SOLUTIONS AND SUGGESTIONS
THE LIQUID CRYSTAL DISPLAY (LCD) SHOWS QUESTION MARKS (????)	• Turn the unit power "OFF" and "ON". • Erase the memory chip (EEPROM) using Function Code 50. If you have trouble to log on to programming mode, press and release the square red button then press #.
THE LIQUID CRYSTAL DISPLAY (LCD) IS BLANK, NO DISPLAY AT ALL	• The power LED must be "ON" (LED2 marked on the board). • The Power Switch's toggle must be on the left position ("ON"). • Check the fuse (3 Amp 250 Volt). • Measure the voltage on AC1 and AC2 (set your voltmeter to AC and put the probes on AC1 and AC2), it should read within 12VAC-13.8VAC or if you use 12 VDC, the meter must read 13.5 - 14.0 VDC. • The LCD's ribbon cable has red dots along the side. The red dots must be facing up. It must be connected to the terminal marked number 1.

DISPLAY PROBLEMS	SOLUTIONS AND SUGGESTIONS
	• The LCD's ribbon cable sits tight on the terminal pins marked LCD on the board. • The LCD's ribbon cable is connected into the LCD's terminal pins connector and the red dots along the side of the ribbon should be connected on pin 1. • Adjust the LCD's intensity. • Turn the system's power "OFF", wait for 15 seconds and turn it "ON". • If the sunlight hits directly into the the LCD, block the sunlight. If the LCD is readable after you block the sunlight, you may have to move the system to a different location otherwise the system will collect heat and it may get damaged if the inside temperature reaches above 140 °F. • If the display only fails when the outside temperature is below 32°F or 0°C, you may need to install a heater (AHP-5). • If the system beep when the keypad is pressed, try to adjust the LCD's intensity, if the LCD display is still blank. possibility the LCD is bad.
THE LCD SHOWS EIGHT SQUARES OR UNDERLINES	• The LCD's ribbon cable has red dots along the side. The red dots must be facing up and connected to pin 1. • It must be connected to the terminal marked LCD on the board. • The LCD's ribbon cable sits tight on the terminal pins marked LCD on the board. • The LCD's ribbon cable is connected into the LCD's terminal pin connector and the red dots along the side of the ribbon should be connected on pin 1. • Turn the system's power "OFF", wait for 15 seconds and turn it "ON". • The input voltage to AC1 and AC2 should read within 12VAC-13.8VAC or if you use 12 VDC, the meter must read 13.5 - 14.0 VDC. • If the display only fails when the outside temperature is below 32°F or 0°C, you may need to install a heater (AHP-5).
COMMUNICATION PROBLEMS	SOLUTIONS AND SUGGESTIONS
THE VISITOR CAN'T PLACE A CALL TO A TENANT OR TENANTS	• Check if the problem occurs on all tenants. • Disconnect the phone line from the AeGIS system and connect a standard phone into the phone line and try to place a call. • Check the phone number on the system programming. • Check the phone line and make sure the telephone terminal box is grounded.
THE VISITOR HEARS A RADIO STATION ON THE AEGIS SYSTEM WHILE TALKING TO A TENANT	• Check if the problem occurs on all tenants. • Disconnect the phone line from the AeGIS system and connect a standard phone into the phone line and try to place a call. • Check the grounding on the AeGIS system and telephone line. The Aegis's cabinet must be grounded to an earth ground. The telephone line shield must be grounded at the telephone terminal block, not on the AeGIS cabinet. • Disconnect the ground wire (marked GND at the 5 pins terminal) from the board. If the problem still exists, install a Modular RFI Filter.
BOTH THE VISITOR AND TENANT HEAR STATIC WHILE THEY ARE TALKING	• Check if the problem occurs on all tenants. • Disconnect the phone line from the AeGIS system and connect a standard phone into the phone line and try to place a call.
THE SOUND KEEPS GOING OUT WHILE THE TENANT AND VISITOR ARE TALKING	• The AeGIS 7000 does not have full-duplex speakerphone. If the AeGIS is installed in a noisy environment, you may experience with this problem. • Both the visitor and tenant can't talk simultaneously. • Try to speak a little further from the system

GATE PROBLEMS	SOLUTIONS AND SUGGESTIONS

THE GATE OR DOOR DOES NOT OPEN WHEN THE TENANT PRESSES NUMBER "9"	• Check power on the gate operator or door strike.
	• Check Function 77, it must be enabled.
	• Check for loose connection on gate or door strike wires on RC1 and NO1 (if you use "Normally Open" gate or door strike) or RC1 and NC1 (if you use "Normally Close" gate or door strike) on the AeGIS system.
	• Remove the two wires on RC1 and NO1 and short the two wires, the door or gate should open or remove the two wires on RC1 and NC1, the gate or door should open. If the door or gate does not open, you may have a problem with the gate or door strike.
	• Test the relay and follow the steps below:
	    1. Set your multi-meter to Ohm (touch the two probes, the meter will read about 0 (zero value)
	    2. Connect the meter's probes to RC1 and NO1 (if "Normally Open" strike is used, the meter will read as an open circuit) or RC1 and NC1 (if "Normally Close" strike is used your meter will read about 0 value).
	    3. Place a call from the system to one of the tenants and tell the tenant to press "9" and you should get the following results:
	        • Your meter should read to about 0 value if RC1 and NO1 contacts are used, otherwise the system's relay is bad.
	        • Your meter should read as an open-circuit if RC1 and NC1contacts are used, otherwise the system's relay is bad.

THE GATE OR DOOR DOES NOT OPEN WHEN THE TENANT PRESSES NUMBER "9"BUT IT OPENS USING THE PERSONAL ACCESS CODE	• Try to call a few different tenants. If the problem precists, erase the system's memory to default (use function code 50). • Call the Technical Support, you may have a bad board.
KEYPAD PROBLEMS	SOLUTIONS AND SUGGESTIONS
ALL OR SOME OF THE KEYPAD'S KEYS DO NOT WORK	• The keypad's ribbon cable has red dots along the side, the red dots must be facing upward and connected to pin 1. • Turn the power "OFF" and disconnect the keypad's ribbon cable from the board and reconnect it and turn the power "ON".

The technical support team at Pach and Company are highly trained and committed to providing you with the best in support and repair services. Our Services are available between 7:30 AM - 4:30 PM Pacific Standard Time.

TOLL FREE (888) 678-7224.

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 it's 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 7000 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.

REMOTE TOUCH-TONE PROGRAMMING

1) SINGLE SYSTEM

Step 1 Call the AeGIS 7000. When the system answer you will hear: • *One Short Beep*: Door is opened; • *Two Short Beeps*: Door is closed.
Then Press # key

Step 2 Press your valid Master Code.
   • If your Master Code is accepted, you will hear *Two Short Beeps* and now, you are in the programming mode and see table below to continue
   • If your Master Code is rejected, the system will disconnect.

2) MULTI-SYSTEM IN SINGLE TELEPHONE LINE

Step 1 Call into the AeGIS 7000 using a touch tone phone. When the system answer
you will hear: • *One Short Beep*: Door is opened; • *Two Short Beeps*: Door is closed; • *One Long Beep*: Combination of Closed and open.

Step 2 Press the System Number you want to log in (1-8) then press # key.

Step 3 Press your valid Master Code.
   • If your Master Code is accepted, you will hear *Two Short Beeps* and you are in the
     programming mode and see table below to continue.
   • If your Master Code is rejected, the system will disconnect.

Step 4 Follow the next programming sections below to program the tenant database and parameter.

SYSTEM'S OPERATION

TO PLACE A CALL FROM THE AeGIS 7000 SERIES: • Press 3 to scroll the tenant name from A to Z. o r 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

**TO DISABLE REMOTE ACCESS:** See Function Code 77.

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 7000 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 to unlock the door.

KEYPAD LAYOUT

See manual for more detail

QZ-1	ABC 2	DEF 3
GHI 4	JKL 5	MNO 6
PRS 7	TUV 8	WXY 9
*	0	#
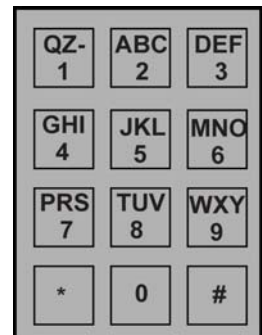
FUNCTION CODE TABLE

CODE	DESCRIPTION	CODE	DESCRIPTION
*	Exit the programming (local programming) or clear the existing field	46	System Information.
#	To accept program.	50	Clear the Memory to Factory default.
00	Replace System Master Code.	70	Change Talk Time (default is 60 seconds).
01	Program a New Tenant.	71	Change Door Open Interval (default is 12 sec).
02	Modify an Existing Tenant Directory.	72	Change Lock Out Count (default is 3 times).
03	Delete an Existing Tenant Directory.	73	Select Tone and Pulse Dialing (default is tone).
04	Clear All Tenants Directory.	74	Enable or DIsable Auto Answer (default is enabled)
05	Manual Lock (open) or Unlock (close) Door.	75	Turn On or Off Key Press Beep (default is On).
06	Selecting Directory Digits (2, 3, or 4-digit, default is 3-digit).	76	Turn On or Off Speaker Beep. (default is On).
07	Single or Multi Systems (default is single).	77	NO APPLICABLE ON NEWER SYSTEM
08	System Number (default is 1).	78	View Directory by Name.
10	Edit Welcome Screen.	91	Exit from Remote Programming.