A·EGIS 9000 *PLUS*

Installation and Programming Manual

REV.0516-2012

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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 9000P Series. Pach and Company does not assume liability for any incompatibility between the AeGIS 9000P 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 9000P Series (9600CR25, 92KCR1000, 9600CR25FF and 92KCR35FF) Telephone Access Control Systems with optional 26 Bit Wiegand Proximity Reader.

The manual is designed to guide you through the proper programming and use of the AeGIS 9000P Series. It is important for you to read and follow the manual completely.

The Aegis 9000P Series comes with two years warranty, see section 1.4 for more detail.

1.2 System Description, Specifications and Accessories

AeGIS 9000P 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 keypad access code or with optional card or a combination of keypad access code and card. The tenants MUST have a telephone to allow remote visitor access.

The system parameters and tenants data will be entered via the keypad and the LCD provides easy display. EEPROM technology is used for AeGIS 9000P 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 using keypad access code.
- Built-in two line back-light LCD directory, Postal Switch.
- Recess keypad with built-in night light.
- Programmable via Pach and Company Management Software (Modem or RS-232).
- Two relay with multi purpose secondary relay.
- Door sensor input.
- Built-in RS-485 to interface with Satellite Keypad (SK9).
- 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.
  - Auto Unlock Schedules
  - Time Zones for restricted or non-restricted keypad access code or card access.
  - Open Interval
  - Talk Time

Optional features:

- 26-Bit Wiegand Proximity Card Reader.
- 26-Bit Wiegand Radio Reader.

Technical Specifications AeGIS 9000P Series

Power Input: 12 VAC 40 VA (supplied) or 12 VDC 40VA UL Listed Transformer
Current Consumption: Min 700mA idle, Max 900mA operation with optional Wiegand Card Reader and Radio Reader
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 Semi-Flush.
Construction: 16-gauge cold rolled steel back box with brush stainless steel face plate or brass plating face plate.
Shipping: 16 lbs. or 7.3 kg. Approximate
Dimensions: 13-1/2" (34.3Cm) x 11-1/4 (28.6Cm) x 3-7/8" (9.8Cm) (HWD)
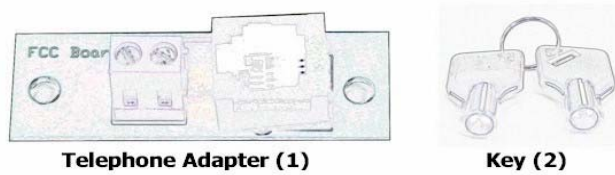Specifications subject to change without prior notice

Accessories and Replacement Parts:

Visit our website www.pach-co.com or call 1-888-678-7224

1.3 Unpacking the System

Standard AeGIS 9000P Series consists of the following items, see picture below

Telephone Adapter (1)   Key (2)

QUICK REFERENCE GUIDE

Transformer (1)   Phone Cord (1)

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.
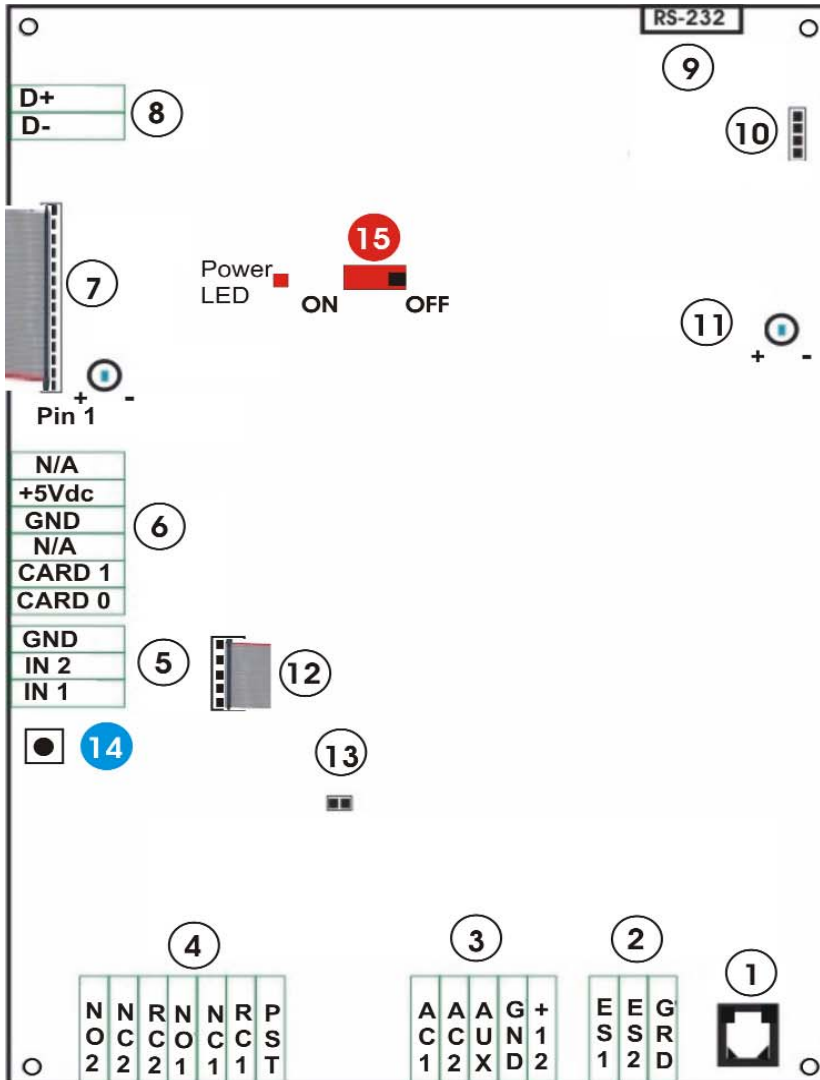
8. Distributor and/or Dealer-Installer are responsible for all shipping charges, incl. freight and insurance fees, for products shipped to Pach and Company repair center.
9. **Pach and Company warranty does not guarantee any product, new or repaired, to be free of operation error or service interruption 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.

<u>IMPORTANT REPAIR NOTE</u>**:** 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.
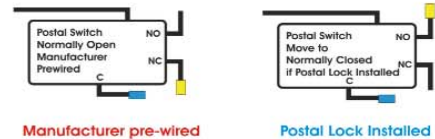
Chapter 2
INSTALLATION

Diagram labels (circuit board): RS-232, D+, D-, Power LED, ON, OFF, Pin 1, N/A, +5Vdc, GND, N/A, CARD 1, CARD 0, GND, IN 2, IN 1, numbered callouts 1–15.

Bottom terminal labels: NO2, NC2, RC2, NO1, NC1, RC1, PST, AC1, AC2, AUX, GND, +12, ES1, ES2, GRD

1. **Analog Telephone Input (dial tone)**

2. **GRD:** Earth Ground, use 16-1 gauge solid wire. Cold water pipe is the best earth ground.

   ES 1 and ES 2: No phone bill communication NPB7000P and NPB9000P (2-conductor,18 gauge shielded stranded wires)

3. **+12V and GND:** Power for backlit keypad

   AUX and GND: +12Vdc 4 Ahr battery backup input

   AC 1 and AC 2: Input power 12Vac (supplied) or 12Vdc

4. **PST: Postal Switch PST (yellow) and GND (blue),** call local postal company to install postal lock. **PST** and **GND** can also uses to connect input device is connected such as free exit switch, infrared sensor. **NOTE:** Input must be dry contact

   Postal Switch Normally Open Manufacturer Prewired — NO, NC, C — **Manufacturer pre-wired**

   Postal Switch Move to Normally Closed if Postal Lock Installed — NO, NC, C — **Postal Lock Installed**

   Door, Gate Connection
   RC 1: Relay Common 1
   NC 1: Normally Close 1
   NO 1: Normally Open 1
   RC 2: Relay Common 2
   NC 2: Normally Close 2
   NO 2: Normally Open 2

5. **Door Sensor,** door sensor switch is required.
   GND: Door Sensor Ground
   IN 1: Door Sensor Relay 1
   IN 2: Door Sensor Relay 2

6. **26 Bit Wiegand Input,** Maximum of two 26 bit wiegand card reader can be installed. **Compatible with Part: UMCR Card 0 and Card 1:** Data 0 and Data 1, **GND:** Card Reader Ground, **+5Vdc:** Card reader power.

7. **LCD Connector** Red Line Up. **WARNING:** If you need to disconnect the LCD's ribbon cable, note down the direction and pins configuration. Connect the LCD's ribbon cable incorrectly, may damage the LCD or board. The RED LINE on the ribbon cable must be connected to pin 1, and connect the inner row (row closer to the board) of the ribbon cable. **LCD Contrast:** Clockwise (-) to decrease, counter clockwise (+) to increase.

8. **RS-485 Data Communication:** 2 conductor, 18 gauge stranded shielded wire. Polarity Sensitive. **Compatible with Part: USCR, USKP, UCRM, and UMCK. Contact Pach and Company for more detail.**

9. **RS-232:** not supply, it is straight connection RS-232 cable. If you decided to make your own RS-232, obtain DB-9 Male and Female. Connect **pin 2 to 2**, **pin 3 to 3 and pin 5 to 5.**

10. **Speaker and Microphone Connector.**

11. **Speaker Volume:** Clockwise to decrease (-) and Counter Clockwise to Increase (+). Decrease the volume if feedback is heard.

12. **Keypad connector.** Red Line up.

13. **LCD backlit connector**

14. **Log on to programming without Master Code. If the Master Code is Masked (Function Code 40), this button is disabled**

15. **ON/OFF SWITCH, POWER LED**

Chapter 3
PROGRAMMING

The AeGIS 9000P Series can be programmed locally using the built-in keypad or RS-232 via the Pach and Company Management Software or remotely via the Pach and Company Management Software (see the CD for Manual).

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 PROGRAM
ENTER: _ _   PRESS #
```

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
NEW:_ _ _ _ # ENT
```
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 RS-232 AND REMOTE PROGRAMMING VIA THE PACH AND COMPANY MANAGEMENT SOFTWARE

See the enclosed CD for Manual. You may install up to eight systems on the same phone line but if Pach and Company Management Software is used, you must follow the requirements below:

- Single Telephone Line must be used on every system for remote programming or eight system on the same phone line if RS-232 programming is used.

TABLE 3.1 PROGRAMMING FUNCTION CODES

FUNCTION CODE	LOCAL 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.
#	Press # to accept program.

FUNCTION CODE	LOCAL PROGRAMMING

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 PROGRAM**
> **ENTER: _ _ PRESS #**

Step 2 Enter Function code 00, then press #, the display shows

> **MASTER CODE: 0000**
> **NEW: _ _ _ _ # ENT**

Step 3 Enter the new 4-digit Master Code then press # the display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

If you press * the display shows

> **** CODE ERROR**
> **NOTHING CHANGED!**

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 the display shows

> **DIR # USED: XXXX**
> **Please Wait . . . .**

01

CHANGE TALK TIME
(**Default setting is 090 Seconds**)
Minimum setting is 10 seconds and Maximum setting is 240 seconds.

Talk Time between the tenant and visitor. The talk time is also a hang-up time.

Step 1 Log on to programming mode (see section 3.1). The display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

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

> **TALK TIME, 10-240**
> **ENTER: _ _ PRESS #**

Step3 Enter the talk time (10-240 seconds) then press #, the display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

02

OPEN INTERVAL RELAY 1 and RELAY 2
(**Default setting is 012 Seconds**)
Minimum setting is 04 seconds and Maximum setting is 99 seconds.

Unlock Time for Door 1 and Door 2.

Step 1 Log on to programming mode (see section 3.1). The display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 2 Enter Function code 02, then press #, the display shows

> **Set which Relay?**
> **(1 or 2): _**

Step 3 Enter **1 for relay 1 (door 1)** or **2 for relay 2 (door 2)** then press #, the display shows

---

UNLOCK TIME, SEC
ENTER: 12 PRESS #

Step 4 Enter the unlock time value (04-99 Seconds) then press #, the display shows

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 5 Select another Function Code to program different field from the table or press * to exit the programming mode.

03

LOCK OUT COUNT
(**Default setting is 03**)
Minimum setting is 1 and Maximum setting is 9 .

The system will ignore further keypad code for 90 second if invalid keypad code has been entered a specific number of times.
Does not valid for card code or combination between card code and keypad code.

Step 1 Log on to programming mode (see section 3.1). The display shows

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 2 Enter Function code 03, then press #, the display shows

LOCK-OUT COUNT
ENTER: 3 PRESS #

Step 3 Enter the Lock Out Count value (1-9) then press #, the display shows

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

04

TONE OR PULSE
(**Default setting is TONE**)

If your local phone company does not support tone dialing mode , you must set the system for pulse dialing mode. Most local phone companies support tone dialing mode.

Step 1 Log on to programming mode (see section 3.1). The display shows

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 2 Enter Function code 04, then press #, the display shows

TONE=1 PULSE=0
ENTER: 1 PRESS #

Step 3 Enter **1 for Tone** and **0 for Pulse** then press # the display shows

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

05

SINGLE OR MULTI SYSTEMS
(**Default setting is SINGLE**)

If more than one systems are on the same phone line, you must set each system to MULTI.

Step 1 Log on to programming mode (see section 3.1). The display shows

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 2 Enter Function code 05, then press #, the display shows

SINGLE=1 MULTI=0
ENTER: 1 PRESS #

Step 3 Enter 1 for **SINGLE or** 0 for **MULTI,** then press #, the display shows

	 SELECT PROGRAM **ENTER: _ _ PRESS #** **Step 4** Select another Function Code to program different field from the table or press * to exit the programming mode.
# 06 **SYSTEM ID** (**Default setting is 0**)	Do not change the programming, leave the value as default. **The function code is not used.**
# 07 **REMOTE ENABLE/DISABLE** (**Default setting is Enabled**) Set the function code to **ENABLE** if the management software is used to program the system. If the function code is set to **DISABLE**, the system will not answer an incoming call.	**Step 1** Log on to programming mode (see section 3.1). The display shows **SELECT PROGRAM** **ENTER: _ _ PRESS #** **Step 2** Enter Function Code 07 then press # and the display shows **REMOTE YES=1 NO=0** **ENTER: 1 PRESS #** **Step 3** Enter **1 to ENABLE and 0 to DISABLE** then press #, the display shows **SELECT PROGRAM** **ENTER: _ _ PRESS #** **Step 4** Select another Function Code to program different field from the table or press * to exit the programming mode.

# 08 	
 	
RELAY 2 MODE
(**Default setting is as DOOR. CONTROL**)
 	
MODE1: DOOR CONTROL
MODE 2: A SHUNT
MODE 3: AN ALARM TIMER
MODE 4: A CCTV SWITCH
 	
See Chapter 4. System's Operation for more detail explanation.
	Step 1 Log on to programming mode (see section 3.1). The display shows
	
	SELECT PROGRAM
	ENTER: _ _ PRESS #
	
	Step 2 Enter Function Code 08 then press # and the display shows
	
	RELAY 2 MODE (1-4)
	ENTER: 1 PRESS #
	
	Step 3 Enter 1- **DOOR CONTROL**
	       2- **A SHUNT**
	       3- **AN ALARM TIMER**
	       4- **A CCTV SWITCH**
	then press #, the display shows
	
	SELECT PROGRAM
	ENTER: _ _ PRESS #
	
	Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

09

ALARM TELEPHONE NUMBER

To alert the manager by calling the phone number programmed in case:
• Door has been forced open.
• Door has been left ajar for over the time set on Function Code 29.
• Invalid keypad code or card are entered more than the lock-out count programmed in function code 03.
• This feature is not applicable if Relay 2 on Function Code 08 is set as MODE 3.

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 09 then press # and the display shows

> TELEPHONE NUMBER
> _ _ _ _ _ _ _ _ _ _ _

Step 3 Enter the telephone number for the system to call up to 11-digit then press #, the display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 4 Select another Function Code to program different field from the table or press ∗ to exit the programming mode.

10

MANUAL UNLOCK/LOCK OR UNLOCK HOLD DOORS TIMER

Set the timer to unlock/lock or unlock hold relay 1(door 1) or relay2 (door 2).
01-98 hours - doors will unlock and lock for 01 - 98 hours.
99 - doors will unlock for indefinite time (unlock hold).

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 10 then press # and If relay 2 is set as a **DOOR CONTROL** in Function Code 08 the display shows

> Set Which relay
> (1 or 2): _

If relay 2 is set other than a Door Control, proceed to step 4.

Step 3 Enter 1 for relay 1 (door 1) or 2 for relay 2 (door 2) then press #, the display shows

> HOURS UNLOCK
> ENTER: _ _ PRESS #

Step 4 Enter **01-98 (unlock 1-98 hours) or 99 (unlock hold)** then press #, the display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 5 Select another Function Code to program different field from the table or press ∗ to exit the programming mode.

11

EDIT WELCOME MESSAGE DISPLAY

The welcome screen is a scrolling display. A total 48-characters (16 - characters for each segment) can be programmed for the welcome message.

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 11 then press # and the display shows

> Welcome to Pach'
> MESSAGE SEGMENT 1

Step 3 Enter 16 -characters on the first segment by rewriting the existing message or pressing * to clear the segment and reenter the message, see keypad correlation on figure 3.1, press # on every character you have entered and press ## after the last character you have entered on each segment, then the display shows

```
s Telephone Acce
MESSAGE SEGMENT 2
```

Step 4 Enter 16 -characters on the second segment, by rewriting the existing message or pressing * to clear the segment and reenter the message, press # on every character you have entered and press ## after the last character you have entered on each segment, then the display shows

```
ss Control . . . .
MESSAGE SEGMENT 3
```

Step 5 Enter 16 -characters on the third segment, by rewriting the existing message or pressing * to clear the segment and reenter the message, press # on every character you have entered and press ## after the last character you have entered on each segment, then the display shows

```
SELECT PROGRAM
ENTER: _ _  PRESS #
```

NOTE: IF YOU INTEND TO LEAVE THE WELCOME SCREEN BLANK PRESS * THEN PRESS ## ON EVERY SEGMENT.

Step 6 Select another Function Code to program different field from the table or press * to exit the programming mode.
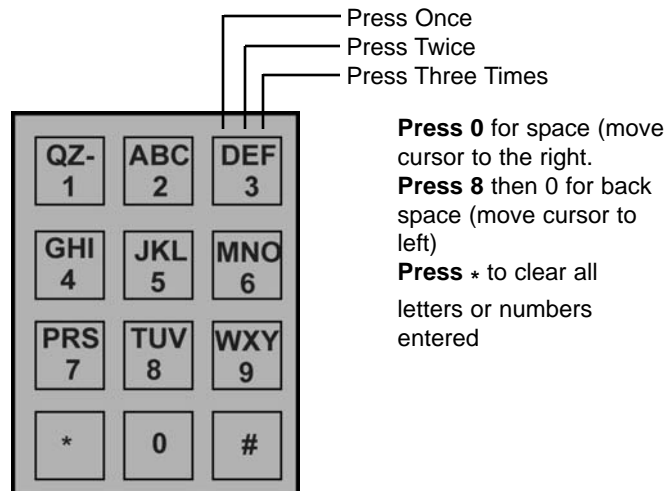
Press Once
Press Twice
Press Three Times

Press 0 for space (move cursor to the right.
Press 8 then 0 for back space (move cursor to left)
Press * to clear all letters or numbers entered

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

FIGURE 3.1

12

SET TIME AND DATE

• Time must be in military format.
• Time and Date must be set according to the current local time for event recording, time zone and auto unlock schedules.

If the system will not change to Daylight saving time or regular time automatically, follow steps below:

Step 1   Log on to programming mode (see section 3.1). The display shows

> **SELECT PROGRAM**
> **ENTER: _ _   PRESS #**

Step 2   Enter Function Code 12 then press # and the display shows

> **Current Time**
> **ENTER: 12:00**

* Your display may not look identical.

Step 3   Enter the **HOUR** (military format) then press # and enter the **MINUTE** then press # the display shows

> **Daylight saving**
> **Time? 1=YES 0=NO**

Step 4   Enter **1 for DAYLIGHT SAVING ZONE or 0 for NON DAYLIGHT SAVING ZONE (DO NOT PRESS #),** the display shows

> **Tue Jan. 01 2002**
> **Correct? 1=Y/ 0=N**

* Your display may not look identical.

Step 5   Enter   **1 if the date is CORRECT** and proceed to step 8
or 0 if it is NOT CORRECT, the display shows

> **Enter today's**
> **Date: MMDDYYYYD**

MM= Month, DD= Date, YYYY=Year
D= Day of Week (see table 3.1)

Step 6   Enter the current **DATE, YEAR, and DAY OF WEEK** (See table 3.1) then press # the display shows

> **Wed Jan. 01 2002**
> **Correct? 1=Y/ 0=N**

D	DAY OF WEEK	D	DAY OF WEEK
1	MONDAY	5	FRIDAY
2	TUESDAY	6	SATURDAY
3	WEDNESDAY	7	SUNDAY
4	THURSDAY		

TABLE 3.1

Step 7   Enter   **1 if the date is CORRECT** and proceed to step 8
or 0 if it is NOT CORRECT, return to step 5

Step 8   The display shows

> **SELECT PROGRAM**
> **ENTER: _ _   PRESS #**

Step 9   Select another Function Code to program different field from the table or press ∗ to exit the programming mode.

13

TIME ZONE

• **Time Zone 1-9** is programmable time zone.
• **Time Zone 0** is 24 hour time zone, factory programmed.
• Must be in military time format.
• Begin time must be smaller than end time.
• Time Zones are only valid within 24-hour period.
• Time Zones are used for non-restricted keypad code, card or combination of both.

Step 1 Log on to programming mode (see section 3.1). The display shows

```
SELECT PROGRAM
ENTER: _ _  PRESS #
```

Step 2 Enter Function Code 13 then press # and the display shows

```
Time Zone Number
ENTER: _  PRESS #
```

Step 3 Enter the Time Zone Number (1-9) then press #, the display shows

```
ADD=1  DELETE=0
ENTER: _  PRESS #
```

Step 4 **IF 1 is entered to ADD** the display shows

```
Start Time: HH: MM
ENTER: _ _ : _ _
```
proceed to step 5

IF 0 is entered to DELETE the display shows

```
Enter another?
YES=1  NO=0: _
```
proceed to step 7

Step 5 Enter the **START TIME HOUR** (military time format) then press # and enter the **MINUTES** then press # the display shows

```
On Which Day (s)
ENTER: _ _ _ _ _ _ _
```

Step 6 Enter the DAY OF THE WEEK (1=Mon, 2= Tue, 3= Wed, 4= Thu 5= Fri, 6= Sat, 7= Sun) then press #, the display shows

```
Enter another ?
YES=1   NO=0
```

Step 7 Enter **1 for YES** then press # and return to step 2 **or 0 for NO** then press # and the display shows

```
SELECT PROGRAM
ENTER: _ _  PRESS #
```

Step 8 Select another Function Code to program different field from the table or press * to exit the programming mode.

14

HOLIDAY SCHEDULE

01-16 Holiday Schedules can be programmed. Keep the holiday schedules up to date every year. **If holiday schedule (s) is programmed, Time Zone Schedule(s) (TMZ) , Auto Unlock**

Step 1 Log on to programming mode (see section 3.1). The display shows

```
SELECT PROGRAM
ENTER: _ _  PRESS #
```

Step 2 Enter Function Code 14 then press # and the display shows

```
Holiday Number
ENTER: _ _  PRESS #
```

FUNCTION CODE	LOCAL PROGRAMMING

Schedule(s) (ATS) will be not enforced.

Step 3 Enter 01 -16 then press #, the display shows

> **ADD=1   DELETE=0**
> **ENTER: _   PRESS #**

Step 4 Enter **1 to ADD** or **0 to DELETE**
IF 1 is entered the display shows

> **Add Holiday MMDD**
> **ENTER: _ _/_ _ PRESS #**   **proceed to step 5**

IF 0 is entered the display shows

> **Enter another?**
> **YES=1 NO=0**   **proceed to step 6**

Step 5 Enter month and date (MM=month, DD=date) then press #, the display shows

> **Enter another?**
> **YES=1 NO=0**

Step 6 Enter **1 for YES** then press # and return to step 2 or **0 for NO** then press # and the display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 7 Select another Function Code to program different field from the table or press * to exit the programming mode.

15

AUTO UNLOCK SCHEDULE

• To Unlock and lock door or gate according to open and close time programmed on the the Auto Unlock Schedule.
• 0-9 auto unlock schedule(s) can be programmed.
• Open time must be smaller than closed time.
• Time must be in military format.

Step 1 Log on to programming mode (see section 3.1). The display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 2 Enter Function Code 15 then press # and the display shows

> **Schedule Number:**
> **ENTER: _ PRESS #**

Step 3 Enter schedule number (0-9) then press #, the display shows

> **ADD=1   DELETE=0**
> **ENTER: _   PRESS #**

Step 4 Enter **1 to ADD** or **0 to DELETE**
IF 1 is entered the display shows

> **Which Door ?**
> **ENTER: _ PRESS #**   **if relay 2 is set as door control (mode 1) on Function Code 08, proceed to step 5**

OR

> **On Which Day (s)?**
> **ENTER: _ _ _ _ _ _ _**   **if relay 2 is set other than mode 1, proceed to step 6**

IF 0 is entered the display shows

> **Enter another**
> **YES = 1 NO = 0**   proceed to step 9

Step 5 Enter 1 for Relay 1 (Door 1) or 2 for Relay 2 (Door 2) then press #, the display shows

> **On Which Day (s)?**
> **ENTER: _ _ _ _ _ _ _**

Step 6 Enter the DAY OF THE WEEK (1=Mon, 2= Tue, 3= Wed, 4= Thu 5= Fri, 6= Sat, 7= Sun) then press #, the display shows

> **Open Time HH:MM**
> **ENTER: _ _ : _ _**

Step 7 Enter **open time HOUR (military format) then press # and enter MINUTE** then press #, the display shows

> **Close Time HH:MM**
> **ENTER: _ _ : _ _**

Step 8 Enter **close time HOUR (military format) then press # and enter MINUTE** then press #, the display shows

> **Enter another ?**
> **YES=1   NO=0**

Step 9 Enter **1 for YES** then press # and return to step 2 or **0 for NO** then press # and the display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 10 Select another Function Code to program different field from the table or press * to exit the programming mode.

16

REINITIALIZE TIME ZONE SCHEDULES

Step 1 Log on to programming mode (see section 3.1). The display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 2 Enter Function Code 16 then press # and the display shows

> **Reinitialize   TMZ**
> **1=YES   0=NO**

Step 3 Press **1 for YES or 0 for NO** then press #, the display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

17
REINITIALIZE AUTO UNLOCK SCHEDULES

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 17 then press # and the display shows

> Reinitialize   ATS
> 1=YES   0=NO

Step 3 Press **1 for YES or 0 for NO** then press #, the display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

18
REINITIALIZE HOLIDAY SCHEDULES

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 18 then press # and the display shows

> Reinitialize   HLD
> 1=YES   0=NO

Step 3 Press **1 for YES or 0 for NO** then press #, the display show

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

19
REINITIALIZE EVENTS RECORDING

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 19 then press # and the display shows

> Reinitialize   EVR
> 1=YES   0=NO

Step 3 Press **1 for YES or 0 for NO** then press #, the display show

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

20

NEW TENANT CODE

consists of tenant code, name and phone number

• Tenant Code (directory code) must be a unique number. You may use the apartment number, unit number , etc.

• The directory code can be 2, 3 or 4 digit. See Function Code 28 to set Directory Digit.

• ALL the field must be programmed.

• Name up to 12 characters.

• Phone number up to 11-digit.

Step 1 Log on to programming mode (see section 3.1). The display shows

```
SELECT PROGRAM
ENTER: _ _  PRESS #
```

Step 2 Enter Function Code 20 then press # and the display shows

```
NEW TENANT CODE
ENTER: _ _ _  PRESS #
```

Step 3 Enter a new tenant code then press # (**if the directory is already in used, the display shows TENANT EXIST**), the display shows

```
TENANT NAME
_ _ _ _ _ _ _ _ _ _ _ _
```

Step 4 Enter a tenant name up to 12 characters then **press # after entering each character and press ## after entering the last character** (see figure 3.1 for keypad correlation), the display shows

```
TELEPHONE NUMBER
_ _ _ _ _ _ _ _ _ _ _ _
```

Step 5 Enter a telephone number up to 11-digit then press enter, the display shows

```
SELECT PROGRAM
ENTER: _ _  PRESS #
```

Step 6 Select another Function Code to program different field from the table or press * to exit the programming mode.

21

MODIFY TENANT CODE

• To modify, you must know the tenant code (directory code) that you assigned on function code 20.
• If you do not know use Function Code 78 to find the tenant code.
NOTE: Function Code 78 cannot be used if you program a tenant with NO NAME on Function Code 20.

Step 1 Log on to programming mode (see section 3.1). The display shows

```
SELECT PROGRAM
ENTER: _ _  PRESS #
```

Step 2 Enter Function Code 21 then press # and the display shows

```
MODIFY TENANT
ENTER: _ _ _  PRESS #
```

Step 3 Enter the tenant code to be modified then press # (if the tenant code does not exist, the display shows TENANT NOT EXIST and proceed to step 4), the display shows

```
TENANT NAME
_ _ _ _ _ _ _ _ _ _ _ _
```

Step 4 Enter a new tenant name (press * to clear the existing one) up to 12 characters then **press # after entering each character and press ## after entering the last character** (see figure 3.1 for keypad correlation), the display shows

```
TELEPHONE NUMBER
_ _ _ _ _ _ _ _ _ _ _ _
```

Step 5 Enter a telephone number up to 11-digit then press enter, the display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 6 Select another Function Code to program different field from the table or press * to exit the programming mode.

22

DELETE A TENANT CODE

• To delete, you must know the tenant code (directory code) that you assigned on function code 20.
• If you do not know use Function Code 78 to find the tenant code.
NOTE: Function Code 78 cannot be used if you program a tenant with NO NAME on Function Code 20.

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 22 then press # and the display shows

> DELETE TENANT
> ENTER: _ _ _ PRESS #

Step 3 Enter the tenant code to be deleted then press #, the display shows

> Delete XXXX ?
> Push 5 To Confirm   **XXXX**= tenant code (directory code)

Step 4 Enter 5, the display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #   if tenant code exists, proceed to step 5

OR

> TENANT DOES NOT
> EXIST   if tenant code does not exist

then the display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #   proceed to step 5

Step 5 Select another Function Code to program different field from the table or press * to exit the programming mode.

23

CLEAR ALL TENANTS

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 23 then press # and the display shows

> CLR ALL TENANTS ?
> YES=1   NO=0

Step 3 Enter **1 for YES then press # to continue the display shows**

> Del ALL Tenants
> Push5 To Confirm   **proceed to step 4**

or 0 for NO then press # to cancel and **proceed to step 5**

Step 4 Enter 5 and the display shows

SELECT PROGRAM
ENTER: _ _   PRESS #

Step 5 Select another Function Code to program different field from the table or press * to exit the programming mode.

24

CARD AND CODE

(Default setting is 0, for keypad code or card access)

• Optional 26 BIT Wiegand Card Reader can be used with the system. To gain access you may use card access, keypad access code or card access + keypad access code.
• If no optional Wiegand Card Reader, you only can use the 4-digit keypad code

See Function Code 30 to program keypad access code

See Function Code 26 and 30 to program card reader facility code, card number and keypad access code

0= keypad code or card access
1= card access +
keypad access code

Step 1 Log on to programming mode (see section 3.1). The display shows

SELECT PROGRAM
ENTER: _ _   PRESS #

Step 2 Enter Function Code 24 then press # and the display shows

CARD AND CODE
OR-(0); AND-(1):0

Step 3 Enter **0 = KEYPAD ACCESS CODE or 1=CARD ACCESS + KEYPAD ACCESS CODE** then press # the display shows

SELECT PROGRAM
ENTER: _ _   PRESS #

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

25, 26 and 51-60

FACILITY CODE

Facility code for 26 BIT Wiegand Card Reader or Radio Reader (001-255)

* FUNCTION CODE 26 CAN BE PROGRAMMED REMOTELY VIA SOFTWARE NOT FUNCTION CODE 25 and 51-60
12 different facility code can be programmed

Step 1 Log on to programming mode (see section 3.1). The display shows

SELECT PROGRAM
ENTER: _ _   PRESS #

Step 2 Enter Function Code 25 or 26 then press # and the display shows

Fac Code (0-255)
ENTER: _ _ _   PRESS #

Step 3 Enter Card Facility Code (Facility code is provided by Pach and Company and range from 001-255) then press #, the display shows

SELECT PROGRAM
ENTER: _ _   PRESS #

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

27

RS-232 or MODEM
(Default setting is 1 for MODEM)

You may program the system via built-in RS-232 (local) or MODEM (remote)

1= MODEM
0= RS-232

Step 1 Log on to programming mode (see section 3.1). The display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 2 Enter Function Code 27 then press # and the display shows

> **Rs232/Modem**
> **0=232, 1=Modem: 1**

Step 3 Enter 0=RS-232 then press # and proceed to step 5 or 1=MODEM then press #, the display shows

> **Protocol: 1_V22**
> **0=Bell212 :1**

Step 4 Enter 1 or 0 then press #, the display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 5 Select another Function Code to program different field from the table or press * to exit the programming mode.

28

DIRECTORY DIGIT
(Default setting is 3-Digit)

The number of digit on the tenant code (directory code) must be set before the tenant database is programmed on Function Code 20 and Function Code 30.

Step 1 Log on to programming mode (see section 3.1). The display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 2 Enter Function Code 28 then press # and the display shows

> **DIR DIGITS**
> **ENTER: 3 PRESS #**

Step 3 Enter the directory digit (2, 3 or 4 digit) then press # the display shows

> **% SORTING DATA %**
> **Please Wait . . .**

then the display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

29

ALARM DELAY
(Default setting is 15 seconds)

• Report ALARM (00-90 seconds) if Door 1 or DOOR 2 is open longer than the Door Open Interval set on Function Code 02 (door sensor switch must be installed)
• Report ALARM (00-90 seconds) if DOOR 1 or DOOR 2 is forced open (door sensor switch must be installed).
• Trigger relay 2 if set for MODE 2 (A SHUNT) (00-90 seconds).

Step 1 Log on to programming mode (see section 3.1). The display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 2 Enter Function Code 29 then press # and the display shows

> **ALM DELAY: 00 - 90**
> **ENTER: 1 5 PRESS #**

Step 3 Enter 00 - 90 then press #, the display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode.

30

ADD KEYPAD ACCESS CODE AND CARD NUMBER (RADIO TRANS-MITTER NUMBER)

• Add 4-digit keypad access code and optional card number or radio transmitter number (00001 - 65535).
• Name up to 16 characters.
• Up to three Time Zones Section can be assigned (restricted or non-restricted) for each code.

Step 1 Log on to programming mode (see section 3.1). The display shows

```
SELECT PROGRAM
ENTER: _ _  PRESS #
```

Step 2 Enter Function Code 30 then press # and the display shows

```
NEW ACCESS CODE
ENTER: _ _ _ _  PRESS #
```

Step 3 Enter 4-digit keypad access code then press # and the display shows

```
CARD  No
ENTER: _ _ _ _ _  PRESS#
```

Step 4 Enter the card number or radio transmitter number (00001 - 65535) (leave this field blank if no Card Reader installed on the system) then press #, the display shows

```
Door 1 or Door 2
3 for both: _
```

if door 2 is set for mode 1 (door control). If door 2 is set other than mode 1, proceed to step 6.

Step 5 Enter 1=Relay 1 (Door 1) , 2=Relay 2 (Door 2), 3=Both then press #, the display shows

```
TimeZone  section
3 MAX [1-3]: _
```

Step 6 Enter 1-3 **(always start with 1)** then press #, the display shows

```
Which Time Zone
[0-9] : _
```

Step 7 Enter the Time Zone (s) programmed on Function Code 13 (1-9) or **enter 0 for 24 hours access** then press #, the display shows

```
Another sction
(1=YES)  (0=NO): _
```

Step 8 Enter **1=YES** then press # and proceed to step 6 or **0=NO** then press # and the display shows

```
CODE HOLDER NAME
_ _ _ _ _ _ _ _ _ _ _ _
```

Step 9 Enter the name up to 12 characters then press #, the display shows

```
SELECT PROGRAM
ENTER: _ _  PRESS #
```

Step 10 Select another Function Code to program different field from the table or press ∗ to exit the programming mode.

31

MODIFY KEYPAD ACCESS CODE AND CARD NUMBER (RADIO TRANSMITTER NUMBER)

• You must know the keypad access code to modify this field.
• The keypad access code cannot be modified. You must delete it using Function Code 32.
• Card number can be modified.

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _   PRESS #

Step 2 Enter Function Code 31 then press # and the display shows

> Access Code to
> modify: _ _ _ _

Step 3 Enter the 4-digit keypad access code to be modified then press #, the display shows

> CARD No:
> ENTER: _ _ _ _ _   PRESS#

if the keypad code is valid and proceed to step 4

OR

> No such a CODE!
> USE [30] TO ADD

if the keypad code is invalid, proceed to step 2 or step 10

Step 4 Enter the card number or radio transmitter number (00001 - 65535) (leave this field blank if no Card Reader installed on the system) then press #, the display shows

> Door 1 or Door 2
> 3 for both: _

if door 2 is set for mode 1 (door control). If door 2 is set other than mode 1, proceed to step 6.

Step 5 Enter 1=Relay 1 (Door 1) , 2=Relay 2 (Door 2), 3=Both then press #, the display shows

> TimeZone section
> 3 MAX [1-3]: _

Step 6 Enter 1-3 **(always start with 1)** then press #, the display shows

> Which Time Zone
> [0-9] : _

Step 7 Enter the Time Zone (s) programmed on Function Code 13 (0-9), **enter 0 for 24 hours access** then press #, the display shows

> Another sction
> (1=YES) (0=NO): _

Step 8 Enter **1=YES** then press # and proceed to step 6 or **0=NO** then press # and the display shows

> CODE HOLDER NAME
> _ _ _ _ _ _ _ _ _ _ _ _

Step 9 Enter the name up to 12 characters then press #, the display shows

> SELECT PROGRAM
> ENTER: _ _   PRESS #

	Step 10 Select another Function Code to program different field from the table or press ∗ to exit the programming mode.
32 **DELETE KEYPAD ACCESS CODE AND CARD NUMBER (RADIO TRANSMITTER NUMBER)** • You must know the keypad access code to delete this field.	**Step 1** Log on to programming mode (see section 3.1). The display shows SELECT PROGRAM ENTER: _ _ PRESS # **Step 2** Enter Function Code 32 then press # and the display shows DELETE Access Code: _ _ _ _ PRESS # **Step 3** Enter the 4-digit keypad access code then press # the display shows DELETE XXXX? XXXX= Keypad access code entered Push 5 to Confirm **Step 4** Press 5 to continue or ∗ the display shows XXXX Now is Gone XXXX= keypad access code deleted Deletion Done ! **if the keypad access code is valid** or Press ∗ **to CANCEL** and proceed to step 5 **OR** ACCESS CODE XXXX if the keypad access code is invalid DOES NOT EXIST **THEN** display shows SELECT PROGRAM ENTER: _ _ PRESS # **Step 5** Select another Function Code to program different field from the table or press ∗ to exit the programming mode.
33 **CLEAR ALL KEYPAD ACCESS CODE AND CARD NUMBER (RADIO TRANSMITTER NUMBER)**	**Step 1** Log on to programming mode (see section 3.1). The display shows SELECT PROGRAM ENTER: _ _ PRESS # **Step 2** Enter Function Code 33 then press # and the display shows CLR ALL Codes ? YES=1 NO=0 **Step 3** Enter **1=YES** then press #, the display shows Del ALL Codes ! proceed to step 4 Push 5 to Confirm Or Enter **0=NO** then press # and proceed to step 5. **Step 4** Press 5 to clear all keypad access codes and card numbers, the display shows

	SELECT PROGRAM ENTER: _ _ PRESS #
	Step 5 Select another Function Code to program different field from the table or press ∗ to exit the programming mode.

40

MASTER CODE MASK
(Default setting is disabled)

WARNING !!!!!!!!
• Master Code **cannot be recovered** if Master Code Mask is enabled. You must replace the board.

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 40 then press # and the display shows

> MC DISPLAY MASK
> 0=NO 1=YES : 0

Step 3 Enter **0=NO or 1=YES** then press # the display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 4 Select another Function Code to program different field from the table or press ∗ to exit the programming mode.

41

OPEN DOOR BEEP
(Default setting is enabled)

• The system will beep if relay or relay 1 (door 1) or relay 2 (door 2) is unlocked.

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 41 then press # and the display shows

> Open Door Beep
> 0=NO 1=YES : 1

Step 3 Enter **0=NO or 1=YES** then press # the display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 4 Select another Function Code to program different field from the table or press ∗ to exit the programming mode.

42

ENABLE OR DISABLE PBX
(Default setting is disabled)

• This function must be enabled and programmed to dial an outside line from the PBX.
• If the function is enabled and the PBX dial out number is programmed, the system will provide a second pause before it dials the phone number

Step 1 Log on to programming mode (see section 3.1). The display shows

> SELECT PROGRAM
> ENTER: _ _ PRESS #

Step 2 Enter Function Code 42 then press # and the display shows

> PBX Subscriber
> 0=NO 1=YES

Step 3 Enter **0=NO or 1=YES** then press #, the display shows

FUNCTION CODE	LOCAL PROGRAMMING
• If the PBX is enabled, the system will not dial a PBX extension.	**PBX Area No. (0-9)** _ then **Delay Seconds (1-5):** **Step 4** Enter the PBX number (0-9) then press # to to access an outside line, then select delay time (1-5 second) then press #, the display shows **SELECT PROGRAM** **ENTER: _ _ PRESS #** **Step 5** Select another Function Code to program different field from the table or press * to exit the programming mode.
43 **OPEN DOOR 1 AND DOOR 2 NUMBER (REMOTE ACCESS NUMBER) OR CCTV SWITCH** **(Default setting is 9 to unlock relay 1 (door 1) or 8 to unlock relay 2 (door 2) or** **CCTV is 6 to Open and 7 to close the camera)**	**Step 1** Log on to programming mode (see section 3.1). The display shows **SELECT PROGRAM** **ENTER: _ _ PRESS #** **Step 2** Enter Function Code 43 then press # and the display shows **Open Door1No(0-9)** **ENTER: _ PRESS #** **Step 3** Enter (0-9) then press #,

Step 3 (continued)

If relay 2 (door 2) is set for **Mode 1 (door control),** the display shows **Open Door2No(0-9)** **ENTER: _ PRESS #** **proceed to step 4** if the number is already used the display shows **This No is used** **Please try again** return to step 3	if relay 2 is set for **Mode 4 (CCTV Switch)**, the display shows **OpenCCTV No (0-9)** **ENTER: _ PRESS #** **proceed to step 4** if the number is already used the display shows **This No is used** **Please try again** return to step 3

Step 4 Enter (0-9) then press # the display shows

If relay 2 (door 2) is set for **Mode 1 (door control),** the display shows **SELECT PROGRAM** **ENTER: _ _ PRESS #** **proceed to step 5**	if relay 2 is set for **Mode 4 (CCTV Switch)**, the display shows **CloseCCTV No (0-9)** **ENTER: _ PRESS #** Enter (0-9) then press # , the display shows **SELECT PROGRAM** **ENTER: _ _ PRESS #** **proceed to step 5**. If the number is already used, the display shows **This No is used** **Please try again** re-enter the number.

	Step 5 Select another Function Code to program different field from the table or press * to exit the programming mode.

46
 	
DISPLAY SYSTEM INFORMATION
	Step 1 Log on to programming mode (see section 3.1). The display shows
	
	SELECT PROGRAM
	ENTER: _ _ PRESS #
	
	Step 2 Enter Function Code 46 then press # and the display shows
	
	V ER AXXXRYYYY
	MM.DD.YYYY CR
	
	    XXXX= a maximum number of tenants
	    YYYY= a maximum number of keypad access code and card.
	    MM.DD.YYYY= Month. Date. Year the Firmware is released.
	
	    Then the display shows
	
	SELECT PROGRAM
	ENTER: _ _ PRESS #
	
	Step 3 Select another Function Code to program different field from the table or press * to exit the programming mode.

50 **CLEAR THE EEPROM MEMORY TO FACTORY DEFAULT**	**Step 1** Log on to programming mode (see section 3.1). The display shows SELECT PROGRAM ENTER: _ _ PRESS # **Step 2** Enter Function Code 50 then press # and the display shows 0/1 CLR eeprom . . . N/Y:0 # ENT * EX **Step 3** Enter **1=TO CLEAR** or **0=TO CANCEL** then press #, the display shows INITIALIZATION . . EEPROM Testing . . **Step 4** Wait for a few minutes, the more tenants programmed the longer it takes to erase the memory the the display shows Welcome to Pach's Telep Press 3 for Dir . **Step 5** Select another Function Code to program different field from the table or press * to exit the programming mode.
51-60 **Wiegand Facility Code**	Facility code 3-12. See function code 25-26 to program on page 21. 12 different facility code can be programmed on AeGIS 9000P firmware version May 24, 2011 or later

71

ENABLE NO PHONE BILL

Only enable for no phone bill

systems NPB9000P and NPB7000P

Step 1 Log on to programming mode (see section 3.1). The display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 2 Enter Function Code 71 then press # and the display shows

> **NoPhoneBill:**
> **0=NO   1=YES: 0**

Step 3 Press 1 to enable no phone bill the press

78

VIEW DIRECTORY AND NAME

Step 1 Log on to programming mode (see section 3.1). The display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 2 Enter Function Code 78 then press # and the display shows

> **NNNNNNNNNNN**
> **DIR No: XXXX**

NNNNNNNNN= tenant name

Step 3 Press # to view the tenant code (directory code), the display shows

> **NNNNNNNNNNNNN**
> **Press # to view**

NNNNNNNNNNNNN= tenant name
XXXX= 2-digit, 3-digit or 4-digit tenant code (directory code) associated with
the name.

Step 4 Press 3 to proceed to next tenant name and return to step 3 or proceed to
step 5 or press ∗ and the display shows

> **SELECT PROGRAM**
> **ENTER: _ _ PRESS #**

Step 5 Select another Function Code to program different field from the table or
press ∗ to exit the programming mode.

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:
	
	        NNNNNNNNNNN NNNNNNNNNNNNNN= tenant
	        WAIT . . . DIALING name
	
	then the display shows
	
	        [CALLING] PRESS
	        "* " KEY TO ABORT
	
	Step 2 Press * to cancel the call, otherwise wait for the tenant to answer your call.
	
	Step 3 Tenant must press 9 (default setting to unlock relay 1 (door 1)) or 8 (default setting to unlock relay 2 (door 2)).
	
	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: _ _ _ _ **N:** tenant code (directory code)
	        N-digit Number number of digit
	
	Step 2 Press the 2, 3 or 4 digit directory number, the system will initiate the call, the display shows
	
	        DIR . CODE: NNNN **NNNN**: tenant code (directory code)
	        WAIT . . . DIALING
	
	then the display shows
	
	        [CALLING] PRESS
	        "* " KEY TO ABORT
	
	Step 3 Press * to cancel the call, otherwise wait for the tenant to answer your call.
	
	Step 4 Tenant must press 9 (default setting to unlock relay 1 (door 1)) or 8 (default setting to unlock relay 2 (door 2)).

HOW TO EXTEND THE TALK TIME	The talk time can be programmed from 10 - 240 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 9000P Series will accept an incoming call from tenant and tenant can talk to his or her visitor. This feature is not applicable if more than AeGIS 9000P Series are connected on the same phone line, Function Code 27 must be set to RS-232 and Function Code 07 must be enabled. 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. **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 (default setting to unlock relay 1 (door 1)) or 8 (default setting to unlock relay 2 (door 2)).
HOW TO USE THE KEYPAD ACCESS CODE	**Step 1** Press * then the screen stops scrolling, if the screen is still scrolling, repeat this step. **Step 2** Press a valid keypad access code and the door will unlock. If the keypad access code is invalid the display shows ERROR Wrong Code PLEASE TRY AGAIN **NOTE**: If invalid codes are entered more than the number program on Function Code 03, the display shows INVALID CODE! ! ACCESS DENIED the system will ignore further keypad access code entries for 90 seconds. If a telephone number is programmed on Function Code 09, the display shows ALARM ACTIVATED and will call the number programmed
HOW TO USE THE CARD ACCESS OR RADIO TRANSMITTER	**Step 1** Place the card close enough to the red light emitting diode (LED) on the reader or press the radio transmitter button **Step 2** The Card Reader will beep if the card is read properly and the green LED blinks, the door will unlock if the code is valid or the display shows ERROR Wrong Code PLEASE TRY AGAIN **NOTE**: If invalid card access is used more than the number program on Function Code 03, the display shows INVALID CODE! ! ACCESS DENIED If a telephone number is programmed on Function Code 09, the display shows ALARM ACTIVATED and will call the number programmed

HOW TO USE THE COMBINATION OF CARD ACCESS AND KEYPAD ACCESS CODE	**Step 1** Function Code 24 must set to 1
	
	 Step 2 Place the card close enough to the red light emitting diode (LED) on the reader, **if the card access is valid the display shows**
	
	 <table><tr><td>**Input Access**
	Code: _ _ _ _ #</td></tr></table> **proceed to step 3**
	
	 if the card is invalid the display shows
	
	 <table><tr><td>**ERROR Wrong Code**
	PLEASE TRY AGAIN</td></tr></table>
	     NOTE: If invalid card access is used more than the number program on Function Code 03, the display shows
	
	 <table><tr><td>**INVALID CODE! !**
	ACCESS DENIED</td></tr></table>
	 If a telephone number is programmed on Function Code 09, the display shows
	
	 <table><tr><td>**ALARM ACTIVATED**</td></tr></table> **and will call the number programmed**
	
	 Step 3 Enter a valid keypad access code then press # and the door will unlock. If an invalid keypad access code is entered the display shows
	
	 <table><tr><td>**ERROR Wrong Code**
	PLEASE TRY AGAIN</td></tr></table>
	     NOTE: If invalid keypad code is entered more than the number program on Function Code 03, the display shows
	
	 <table><tr><td>**INVALID CODE! !**
	ACCESS DENIED</td></tr></table>
	 If a telephone number is programmed on Function Code 09, the display shows
	
	 <table><tr><td>**ALARM ACTIVATED**</td></tr></table> **and will call the number programmed**

HOW TO USE THE ALARM TELEPHONE NUMBER	A phone number on Function Code 29. The system displays shows <table><tr><td>**ALARM ACTIVATED**</td></tr></table> If invalid keypad access code, card access or keypad access code + card access are used. The system will call the phone number programmed on Function Code 09 and the receiving party will hear continuous beeps. **This feature is not applicable if Relay 2 is set as MODE 3 on Function Code 08.**
RELAY 2 MODES	Relay 2 is an auxiliary relay. It can be set into four (4) different modes: Door Control (mode 1), Shunt (mode 2), Alarm Timer (mode 3) and CCTV Switch (mode 4). You may use relay 2 for various applications as specified below. **Door Control (Mode 1)** Relay 2 can be connected to the second door or gate operator. The tenant can use number "8" on his or her phone to open relay 2 (door 2) remotely. The connection to the door strike is identical as relay 1 (see figure 2.1 for AeGIS 9000P wiring diagram).

A Shunt (Mode 2)

Relay 2 and relay 1 are opened and closed simultaneously. You can use this feature for the following applications:

- Open and close relay 2 (door 2) and relay 1 (door 1) simultaneously, remotely or via a personal access code.
- Open relay 1 (door 1) and send the elevator down simultaneously, remotely or via a personal access code. The elevator is connected to relay 2.
- Connect relay 2 to a light, an alarm device or a buzzer. The light will turn on if door 1 is opened or an alarm or a buzzer will go off if door 1 is opened.

An Alarm Timer (Mode 3)

Relay 2 will be activated according to Function Code 29 if the following conditions are true:

- Invalid access codes have been entered into the system for a specific number of times programmed on Function Code "03".
- If relay 1 (door 1) is opened longer than the relay 1 open interval programmed on Function Code "02".

Relay 2 can be connected to a light, an alarm device or a buzzer.

A CCTV Switch

Relay 2 can be use to turn "ON" a camera(s) to monitor a visitor(s) at the system. Follow these steps to activate relay 2 as a CCTV switch.

Step 1   A visitor calls a tenant from the AeGIS 9000P.

Step 2   The tenant answers the incoming call.

Step 3   The tenant must press number "6" (default setting) on his or her phone to turn "ON" the camera and monitor the visitors at the system. The number can be changed, see Function Code 43.

Step 4   When finished, press "7" (default setting) to turn "OFF" the camera. See Function Code 43.

Step 5   Repeat step 3-4 if you need to turn the camera "ON" and "OFF".

HOW THE DOOR SENSOR OR SHOCK SENSOR OPERATES	The door sensor switch or shock sensor is an option (see figure 2.1 for wiring diagram). Door sensor is available on door 1 or door 2, cannot be both. The AeGIS 9000P provides the door sensor or shock sensor input. The door sensor switch is installed to notify or warn an authorized person if a door is left opened or forced open or the system. The shock sensor is notify an authorized person that the system is being vandalized. The system will send a warning signal by calling the phone number programmed on Function Code "09" or by turning an emergency light or a buzzer "ON" or the combination of the two. Below is how the door sensor or shock sensor operates according to Relay 2 Mode (Function Code "08").

MODE 1 (RELAY 2 AS DOOR CONTROL)
The system will make double beeps every 60 seconds if :
- Door 1 or Door 2 is still opened after the open interval is set on Function Code 02 on relay 1 has expired.
- Or door 1or door 2 is forced open. If Function Code 09 is programmed to call a phone number, the system will
  - Make double beeps every 60 seconds.
  - Call to the number programmed on Function Code 09 every 60

seconds. The authorized person will hear continuous beeps when the phone is answered. The display shows

<div style="text-align:center; border:1px solid black; display:inline-block; padding:10px;">

ALARM ACTIVATED

</div>

The scenarios above are valid until the problems are corrected.

MODE 2 (RELAY 2 AS A SHUNT)

The system will make double beeps every 60 seconds if :
- Door 1 is still opened after the open interval set on Function Code 02 on relay 1 has expired.
- Or door 1 is forced open. If Function Code 09 is programmed to call a phone number, the system will§ Make double beeps every 60 seconds.
- Call to the number programmed on Function Code 09 every 60 seconds. The authorized person will hear continuous beeps when the phone is answered. The display shows

<div style="text-align:center; border:1px solid black; display:inline-block; padding:10px;">

ALARM ACTIVATED

</div>

The scenarios above are valid until the problems are corrected

MODE 3 (RELAY 2 AS AN ALRM TIMER)

The system will make double beeps every 60 seconds if :
- Door 1 is still opened after the open interval set on Function Code 02 on relay 1 has expired. }
- Or door 1 is forced open. Relay 2 will be activated and the display shows

<div style="text-align:center; border:1px solid black; display:inline-block; padding:10px;">

ALARM ACTIVATED

</div>

You may connect an emergency light , an alarm device or a buzzer on relay 2.The scenarios above are valid until the problems are corrected.

MODE 4 (RELAY 2 AS A CCTV SWITCH)

The system will make double beeps every 60 seconds if :
- Door 1 is still opened after the open interval set on Function Code 02 on relay 1 has expired.
- Or door 1 is forced open. If Function Code 09 is programmed to call a phone number, the system will
  - Make double beeps every 60 seconds.
  - Call to the number programmed on Function Code 09 every 60 seconds. The authorized person will hear continuous beeps when the phone is answered. The display shows

<div style="text-align:center; border:1px solid black; display:inline-block; padding:10px;">

ALARM ACTIVATED

</div>

The scenarios above are valid until the problems are corrected.

HOW TO ADJUST THE SPEAKER AND MICROPHONE VOLUME	The speaker volume and microphone are factory preset. See figure 2.1 to locate the speaker volume adjustment pot (VR2).
	    • **COUNTER-CLOCKWISE TO INCREASE**
	    • **CLOCKWISE TO DECREASE**
	
	If you hear a "feedback" when you close the face plate, decrease the volume.

HOW TO ADJUST THE LCD DISPLAY	To locate the LCD adjustment pot, see figure 2.1 (VR3).
	    • **CLOCKWISE TO INCREASE**
	    • **COUNTER-CLOCKWISE TO DECREASE**

HOW TO ADJUST THE PULSE SENSITIVITY	To locate the Pulse Sensitivity adjustment pot, see figure 2.1 (VR1).The Pulse sensitivity is factory preset.
	
	    • **COUNTER-CLOCKWISE TO INCREASE THE PULSE SENSITIVITY.** An Adjustment is necessary if the LED flashes or ON if the system is in a dial tone mode (press #, to get a dial tone),
	    • **COUNTER CLOCKWISE TO DECREASE,** LED should goes off if the system is in dial tone mode.

HOW TO CHECK THE NUMBER OF 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. You may check the total number of tenant in the system locally (using the unit keypad or optional AeGIS 9000P Management Software. The number of tenants may not be accurate if the tenant name is not programmed. **The steps below are to check the number of tenants in the system locally.** See the optional AeGIS 9000P Series Management Software to check the number of tenants in the systems.
	
	Step 1 Log on to programming mode by pressing the 0 and # simultaneously then release, the display stops scrolling and shows
	
	               ┌─────────────────────┐
	               │ **SELECT PROGRAM** │
	               │ **ENTER: _ _ PRESS #** │
	               └─────────────────────┘
	
	Step 2 Press ∗ then the display shows
	
	               ┌─────────────────────┐
	               │ **%DATABASE SORTING%** │
	               │ **Please Wait . . . .** │
	               └─────────────────────┘
	
	then the display shows
	
	               ┌──────────────────┐
	               │ **DIR # USED: XXXX** │ XXXX= total number of tenant
	               │ **Please Wait . . . .** │ programmed
	               └──────────────────┘
	
	      NOTE: A directory without a tenant name will not be counted in the total number of tenant.

Chapter 5
TROUBLE SHOOTING GUIDE

AUDIO PROBLEM S	SOLUTIONS AND SUGGESTIONS
NO AUDIO WHEN KEY(S) IS PRESSED	The AeGIS 9000P does not provide a tone when key is pressed, but the ribbon cable's red line must be facing down and connected on pin 1 on the LCD's terminal pin connector on the board.
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 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 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 about 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. Place 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 place 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 down. It must be connected to the terminal marked number 1. • 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

DISPLAY PROBLEMS	SOLUTIONS AND SUGGESTIONS
	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).
THE LCD SHOWS EIGHT SQUARES OR UNDERLINES	• 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's ribbon cable has red dots along the side. The red dots must be facing down 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 9000P Series 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.
THE AEGIS 9000P DOES NOT ANSWER MODEM CALL.	• Function Code 07 must be set to enabled and Function Code 27 must be set for modem. • Check the phone number you are dialing. • Make sure the system is not in used. • Check the phone number, make sure the system phone line is good and can receive a call. • Make sure the system is on. • Incompatibility between the system and your computer modem.

GATE PROBLEMS	SOLUTIONS AND SUGGESTIONS

THE GATE OR DOOR DOES NOT OPEN WHEN THE TENANT PRESSES NUMBER "9" OR "8"	• Check power on the gate operator or door strike.
	• Check Function Code 43.
	• Check for loose connections on relay 1 and relay 2 (RC1 and NO1 or RC2 and NO2 (if you use "Normally Open" gate or door strike) or RC1 and NC1 or RC2 and NC2 (if you use "Normally Close" gate or door strike)) on the AeGIS system.
	• Remove the two wires on RC1 and NO1 or RC2 and NO2 and short the two wires, the door or gate should open or remove the two wires on RC1 and NC1 or RC2 and NC2, 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:
	    • Set your multi-meter to Ohm (touch the two probes, the meter will read about 0 (zero value)
	    • Connect the meter's probes to RC1 and NO1 or RC2 and NO2(if "Normally Open" strike is used, the meter will read as an open circuit) or RC1 and NC1 or RC2 and NC2 (if "Normally Close" strike is used your meter will read about 0 value).
	    • Place a call from the system to one of the tenants and tell the tenant to press "9" or "8" and you should get the following results:
	        • Your meter should read about 0 value if RC1 and NO1 or RC2 and NO2 contacts are used, otherwise the system's relay is bad.
	        • Your meter should read as an open-circuit if RC1 and NC1 or RC2 and NC2 contacts are used, otherwise the system's relay is bad.
	• Function Code "08" must be set to Mode 1 to set relay 2 as a door control. You can use number 8 on your touch tone phone to open relay 2 (door 2) remotely.

THE GATE OR DOOR DOES NOT OPEN WHEN THE TENANT PRESSES NUMBER "9" OR "8" BUT IT OPENS USING THE KEYPAD ACCESS CODE OR CARD	• Try to call a few different tenants. If the problem precists, erase the system's memory to default factory (use function code 50). • Call the Technical Support, you may have a bad board. • Check Function Code 43.
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 down 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".
CARD READER PROBLEMS	SOLUTIONS AND SUGGESTIONS
CARD ACCESS DOES NOT WORK	• Facility code must be programmed on Function Code 26. • Card number must be programmed on Function Code 30. • You must use incorrect card. • Bad card.

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.

*	Exit program, clear field, reset keystroke	20	Add New Tenant Directory
#	Save program	21	Modify Tenant Directory
00	Change master code (0000 is default)	22	Delete Tenant Directory
01	Change Talk Time	23	Clear All Tenant Directory
02	Open Interval Relay 1 & 2	24	Card and Code (see manual)
03	Lock-out Count	25	Card Facility Code
04	Tone or Pulse Dialing	26	Card Facility Code
05	Single or Multi System	27	Enable/Disable Modem or RS-232
06	System ID (N/A)	28	Change Directory Digit
07	Remote enable/disable	29	Alarm Delay (see manual)
08	Relay 2 Mode (see manual)	30	Add access code and card
09	Alarm Telephone Number (see manual)	31	Modify card
10	Manual Unlock/Lock with Door Timer.	32	Delete code and card
11	Edit Welcome Screen	33	Clear All codes and Cards
12	Set Time and Date	40	Master Code Mask
13	Time Zones (see manual)	41	Open Door Beep
14	Holiday Schedules (see manual)	42	Enable/Disable PBX
15	Automatic Unlock Schedules (see manual)	43	Select remote access number door 1 and door 2
16	Clear All Time Zones Schedules	46	Display System Information
17	Clear All Automatic Unlock Schedules	50	Clear memory
18	Clear All Holiday Schedules	51-60	Card Facility Code
19	Clear All Holiday Schedules	78	View Directory by Name
		71	Enable No Phone Bill (see manual)

Two ways call from the system

1. Press **3** to scroll name from A-Z or **6** to scroll name from Z-A

then press **#** to call name selected.

2. Press **#** wait for dial tone then press the directory no.

Opening the door remotely press **9** to release relay 1 (door 1) or **8** to release relay 2 (door 2) (default setting, can be changed, see function code 43)

Opening the door using the access code press ***** (wait for screen stops scrolling) then press a valid 4-digit access code.

Extending talk time tenant must press **#** from the phone after the time out warning beep.

Calling into the system: incase you are not available when your visitor call you. Follow steps below to use this feature
1. Function code 27 must be set to 0 and function 07 must be set to 1
2. Call the system's phone no., you will hear "**ONE BEEP**", then press ***** to talk to your visitor. Press **9** or **8** to release the door (see function code 43 to change the remote number)

AEGIS 9000 PLUS

PACH AND CO   1-888-678-7224   Quick Guide

- Parts above are only included on complete system (9000 PLUS Series)
- Missing Parts, contact Pach and Company 1-888-678-7224
- Defective system under manufacturer warranty, call 1-888-678-7224 for advance replacement
- 24 Months warranty for complete system
- 6 Months warranty for Printed Circuit Board (8PCB250)
- Complete manual and software download at www.pach-co.com

Log on to programming: Press **0** **#** simultaneously then release, welcome message will stop scrolling (repeat if screen still scrolls) enter 4-digit "**MASTER CODE**" (0000 is default), the screen will show:

```
SELECT PROGRAM
ENTER: _ _  PRESS#
```

Select the "**Function Code**" from the table

1. Press **#** after selecting a character.
2. You have 30 seconds to enter each letter or character.
3. Letter QZ, numeric 0-9 and punctuations press **1**
4. Press **0** space and **8** **0** for backspace

What is Master Code: 4- digit code to log-on to programming mode (0000 is default)
What is Dir (directory code): 2, 3, or 4 digit number see function code 09. The number can be associated to apartment no., first three digit of phone no., last four digit of phone no. , or any random no. assigned to each tenants. Every tenant must have different directory code no..
What is Access Code: 4-digit code (keyless entry code) for tenant to open door or gate.

**TECHNICAL SUPPORT IS AVAILABLE MON-FRI
7:30AM-3:30PM PST AT 1-888-678-7224**