AeGIS 9000 Series

Installation and Programming Manual

March 01, 2002

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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 9000 Series. Pach and Company does not assume liability for any incompatibility between the AeGIS 9000 Series and users devices.

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Chapter 1
GETTING STARTED

1.1 Introduction

Pach & Company thanks and congratulates you on the purchase of your AeGIS 9000 Series (9025CR200, 9050CR200, 9070CR200, 9100CR200, 9250CR1000, 9500CR1000, 9625CR1000 and 91000CR1000) 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 9000 Series. It is important for you to read and follow the manual completely.

The Aegis 9000 Series comes with two years warranty, but we are so confident in our product and our dealer's ability to install them properly, we will include lightning strikes in our two years warranty if Pach and Company surge protector (ASP1) is installed with the systems.

1.2 System Description, Specifications and Accessories

AeGIS 9000 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 9000 Series. The tenant database will not be lost during a power failure.

<u>Standard features:</u>

- 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

<u>Optional features:</u>

- 26-Bit Wiegand Proximity Card Reader.
- 26-Bit Wiegand Radio Reader.
- Vacuum Fluorescent Display (VFD).

Technical Specifications:

AeGIS 9000 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

26 Bit Wiegand Card Reader (AWCR)

Power Input: 4.75 -18 VDC Regulated (Power by the AeGIS 9000 Series +5VDC).

Transmit Frequency: 125 Khz.

Cable Distance: 500 feet maximum.

Dimension: 5.0" x 1.6" x 0.75" (HWD)

26 Bit Wiegand Radio Reader (AWRR)

Power Input: 5.0 VDC Regulated (Power by the AeGIS 9000 Series +5VDC regulated) or
6.0 - 24 VDC Unregualted (not supplied).

Transmit Frequency: 318 Mhz.

Bandwith: 300 Khz minimum.

Read Range: 5 - 500 feet

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AeGIS 9000 Series

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Accessories and Replacement Parts:

AWCR	AeGIS 26-BIT Wiegand Card Reader.	**APM1**	AeGIS Pedestal Mounting Post for car and pedestrian.
ACLAM	26 Bit Wiegand Clam Shell Card..	**APM2**	AeGIS Pedestal Mounting Post for semi-truck, car and pedestrian.
AISO	26 BIT Wiegand ISO Card.		
AFOB	26 BIT Wiegand Key Fob.	**APM3**	AeGIS Pedestal Mounting Post for semi-truck.
AWRR	AeGIS 26-BIT Wiegand Radio receiver.	**AP9**	Adapter plate for APM1, APM2 and APM3.
AFOBT	AeGIS 26-BIT Wiegand Key Fob Radio Transmitter.	**XMFR**	Power Transformer.
AHHT	AeGIS 26-BIT Wiegand Hand Held Radio Transmitter.	**9VFD**	Vacuum Fluorescent Display.
ACDM	AeGIS Management Software CD.	**AVP9C**	AeGIS Video Package (Color).
ABAT1	AeGIS 12 VDC 4.5 Ahr battery backup.	**AVP9**	AeGIS Video Package (Black and White).
ABAT2	AeGIS 12 VDC 1.3 Ahr battery backup.	**9MAN**	AeGIS 9000 Series Installation and Program Manual.
SFM9	Semi flush mounting ring.	**AKYS**	AeGIS key Sets (2 keys per set).
ASP1	AC and Telephone Surge Protector.		
AHP5	Heater pad with Thermostat.		

1.3 Unpacking the System

Standard AeGIS 9000 Series consists of the following items:

- AeGIS 9000 Series System.
- XMFR (Power Transformer, 12VAC 40VA).
- 7-pin terminal connector (inside the cabinet)
- 5-pin terminal connector (inside the cabinet).
- 2 of 3-pin terminal connector (inside the cabinet).
- 6-pin terminal connector (inside the cabinet).
- Key sets (2 keys per set)
- RJ-11 adapter (inside the unit cabinet).
- Owners Manual.
- Warranty Card with unit serial number.

1.4 Warranty

The AeGIS 9000 Series come with **two (2) years warranty for parts and labor.** We will include lightning strikes in our two years warranty if our ASP1 surge protector is installed with the systems. The above warranties are subject to the following conditions.
- The serial number on the printed circuit board must match the serial number on the cabinet.
- The system's failure is not caused by vandalism, improper installation, misuse or abuse.
- Physically damaged product is not acceptable for repair or exchange within or after warranty.
- The warranty will be void and null if the product has been repaired or modified by unauthorized party without authorization of Pach and Company Technical Department.
- If for some reason your system cannot be repaired, Pach and Company will replace it with an identical product of equal value.
- You must obtain a Return Merchandise Authorization (RMA) number from Pach and Company Technical Department before you can send back the product to factory for repair.
- You are responsible for all transportation and insurance charges for the products shipped to the Pach and Company repair center.
- Pach & Company will not be responsible for any labor cost to disconnect and reinstall the system(s).

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 Wiring Block Diagram

Pach and Company
AeGIS 9000 Series

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INSTALLATION

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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 9000 Series 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 9000 Series only works behind the PBX to dial extensions, no pause can be programmed on the AeGIS 9000 Series to dial the outside line.

3   **DOOR STRIKE OR ELECTRICAL STRIKE**

The AeGIS 9000 Series provides TWO 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.
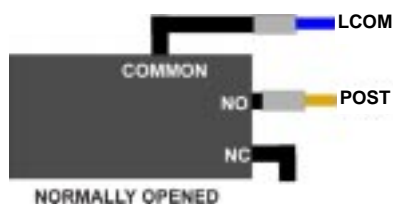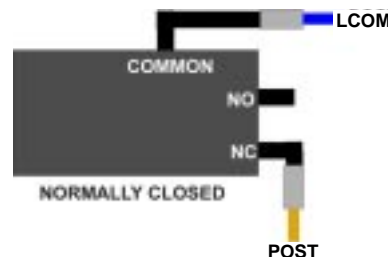

Figure 2.2 (a)

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 9000 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.
- If 12 VDC power supply is used, the OUTPUT must read between 13.5 VDC - 14.5 VDC. Note: Do not use a power supply higher than 12 VDC.

6   BATTERY BACKUP

The AeGIS 9000 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.

7   NIGHT LIGHT

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

8   OPTIONAL DOOR SENSOR

Optional Normally Open door sensor switch can be installed to warn the manager if the gate is left open or forced open.

9   OPTIONAL 26 BIT WIEGAND CARD READER OR RADIO READER
ONLY USE FOR PACH AND COMPANY CARD READER OR RADIO READER

10   OPTIONAL HEATER PAD (AHP5)

A heater pad must be installed if the ambient temperature is below 32°F. See figure 2.3 for power connection.
Specifications: 12 VAC/12VDC 10 Watts, 55.4 °F

Step 1: Turn the system OFF.
Step 2: Install the heater pad behind the Liquid Crystal Display (LCD). Provide 1/4" - 1/2" clearance from the back of the LCD.
   Warning: Do not install the heater pad on top of the LCD without a clearance, It may damage the LCD.
Step 3: Install a duct tape on the LCD's ribbon cable.

To AC1 and AC2 on Figure 2.1

Figure 2.3

11 **RS-232 CONNECTION**

The AeGIS 9000 Series come with RS-232 DB9 Port. The port is used for local programming via AeGIS 9000 Series Management Software. See the wiring diagram below for RS-232 connector wiring diagram.
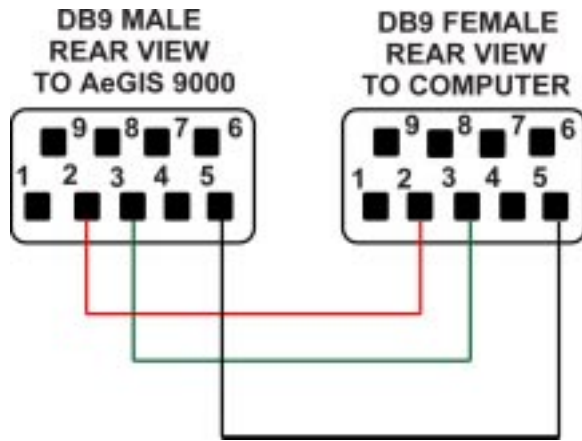

Figure 2.4 RS-232 CONNECTOR

Chapter 3
PROGRAMMING

The AeGIS 9000 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:

- A Maximum of four AeGIS 9000 Series can be connected on the same phone line for remote programming via modem and eight systems on the same phone line if RS-232 is used.
- Different Master Code must be assigned to each system for remote programming via modem.
- Not every computer's modem in the market will communicate (compatible) with multiple AeGIS 9000 Series on the same phone line, recommended modem is ZOOM.
- The Master Code may have to be sent more than once in order to communicate with one of the system.
- Only one system at a time can be connected using an RS-232 port and limited to 150 feet.

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.

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

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```
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

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	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 V 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.

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FUNCTION CODE	LOCAL PROGRAMMING

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

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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.
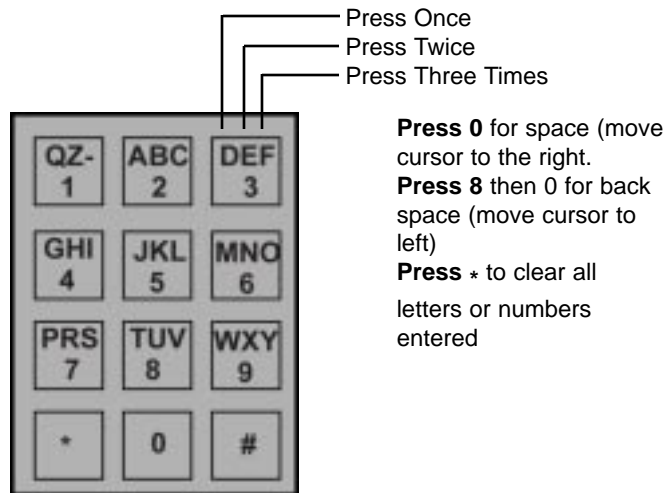
Press Once
Press Twice
Press Three Times

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.

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.

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FUNCTION CODE	LOCAL PROGRAMMING

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**   proceed to step 5
> **ENTER: _ _ : _ _**

IF 0 is entered to DELETE the display shows

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

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 pro-grammed, 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 #**

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| **Schedule(s) (ATS) will be not enforced.** | **Step 3** Enter 01 -16 then press #, the display shows |

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

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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 dis play 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.

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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.

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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

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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

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FUNCTION CODE	LOCAL PROGRAMMING

<table>
<tr><td></td><td>

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

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

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
</td><td>

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.
</td></tr>
<tr><td>

26

FACILITY CODE

Facility code for 26 BIT Wiegand Card Reader or Radio Reader (001-255)
</td><td>

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

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

Step 2   Enter Function Code 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.
</td></tr>
</table>

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FUNCTION CODE	LOCAL PROGRAMMING

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.

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30

ADD KEYPAD ACCESS CODE AND CARD NUMBER (RADIO TRANSMITTER 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 then press #, the display shows

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

Step 7 Enter the Time Zone (s) programmed on Function Code 13 (0-9) 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.

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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 then press #, the display shows

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

Step 7 Enter the Time Zone (s) programmed on Function Code 13 (0-9) 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 #

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FUNCTION CODE	LOCAL PROGRAMMING

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

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

32

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

• You must know the keypad access code to delete this field.

> 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 request a new memory (EEPROM) from Pach and Company for nominal charge. • The square RED button (retrieval switch) on the board cannot recover your existing master code.	**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

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FUNCTION CODE	LOCAL PROGRAMMING

• If the PBX is enabled, the system will not dial a PBX extension.

```
PBX Area No.
_ _ _
```

Step 4 Enter the PBX number to get the outside line (up to 3-digit), 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 #,

If relay 2 (door 2) is set for **Mode 1 (door control),** the display shows	if relay 2 is set for **Mode 4 (CCTV Switch)**, the display shows
``` Open Door2No(0-9) ENTER: _ PRESS # ```	``` OpenCCTV No (0-9) ENTER: _ PRESS # ```
proceed to step 4	**proceed to step 4**
if the number is already used the display shows	if the number is already used the display shows
``` This No is used Please try again ```	``` This No is used Please try again ```
return to step 3	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	if relay 2 is set for **Mode 4 (CCTV Switch)**, the display shows
``` SELECT PROGRAM ENTER: _ _ PRESS # ```	``` CloseCCTV No (0-9) ENTER: _ PRESS # ```
proceed to step 5	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.

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FUNCTION CODE	LOCAL PROGRAMMING
	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.
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 NNNNNNNNNNNN **NNNNNNNNNNNN**= tenant name Press # to view

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

```
NNNNNNNNNNN
DIR No: XXXX
```

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 _NNNNNNNNNNNNN= 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 9000 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 9000 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**
	┌──────────────────────┐ proceed to step 3 │ **Input Access** │ │ **Code: _ _ _ _ #** │ └──────────────────────┘
	if the card is invalid 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
	┌──────────────────────┐ **and will call the number** │ **ALARM ACTIVATED** │ **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
	┌──────────────────────┐ │ **ERROR Wrong Code** │ │ **PLEASE TRY AGAIN** │ └──────────────────────┘
	NOTE: If invalid keypad code is entered 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
	┌──────────────────────┐ **and will call the number** │ **ALARM ACTIVATED** │ **programmed** └──────────────────────┘
HOW TO USE THE ALARM TELEPHONE NUMBER	A phone number on Function Code 29. The system displays shows
	┌──────────────────────┐ │ **ALARM ACTIVATED** │ └──────────────────────┘
	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 9000 wiring diagram).

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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 9000.

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 9000 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="border:1px solid black; text-align:center;">

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="border:1px solid black; text-align:center;">

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="border:1px solid black; text-align:center;">

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="border:1px solid black; text-align:center;">

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 9000 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 9000 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 9000 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

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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 9000 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 9000 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.

AeGIS 9000 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.

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TO PLACE A CALL FROM THE AeGIS 9000 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 or 8, can be programmed on Function Code 43

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

TO USE THE PROXIMITY WIEGAND CARD READER: Place the card on the red LED, if the card is valid door will open.

TO USE THE CARD AND THE KEYPAD ACCESS CODE: Place the card on the red LED then press the 4-digit keypad access 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 9000 Series: Dial the AeGIS phone number, you hear "ONE SHORT BEEP" if you are connected then press ∗ to communicate with the visitor and press 9 or to unlock the door. This feature is not applicable if multi-systems are connected on the same phone line.

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	19	Reinitialize Holiday Schedules
#	To accept program.	20	New Tenant Code (Directory Code)
00	Replace System Master Code.	21	Modify Tenant Code (Directory Code)
01	Change Talk Time	22	Delete a Tenant Code (Directory Code)
02	Open Interval Relay 1 and relay 2	23	Clear All Tenants
03	Lock-out Count	24	Card and Code
04	Tone or Pulse	26	Facility Code
05	Single or Multi Systems	27	RS-232 or Modem
06	System ID	28	Directory Digit
07	Remote Enable or disable	29	Alarm Delay
08	Relay 2 Mode	30	Add Keypad Access Code and Card Number
09	Alarm Telephone Number	31	Modify Keypad Access Code and Card Number
10	Manual Unlock/Lock or Unlock hold doors timer	32	Delete Keypad Access Code and Card Number
11	Edit Welcome Screen Display	33	Clear All Keypad Access Codes and Card
12	Set Time and Date	40	Master Code Mask
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