AEGIS 8000 *PLUS*

INSTALLATION AND PROGRAMMING MANUAL
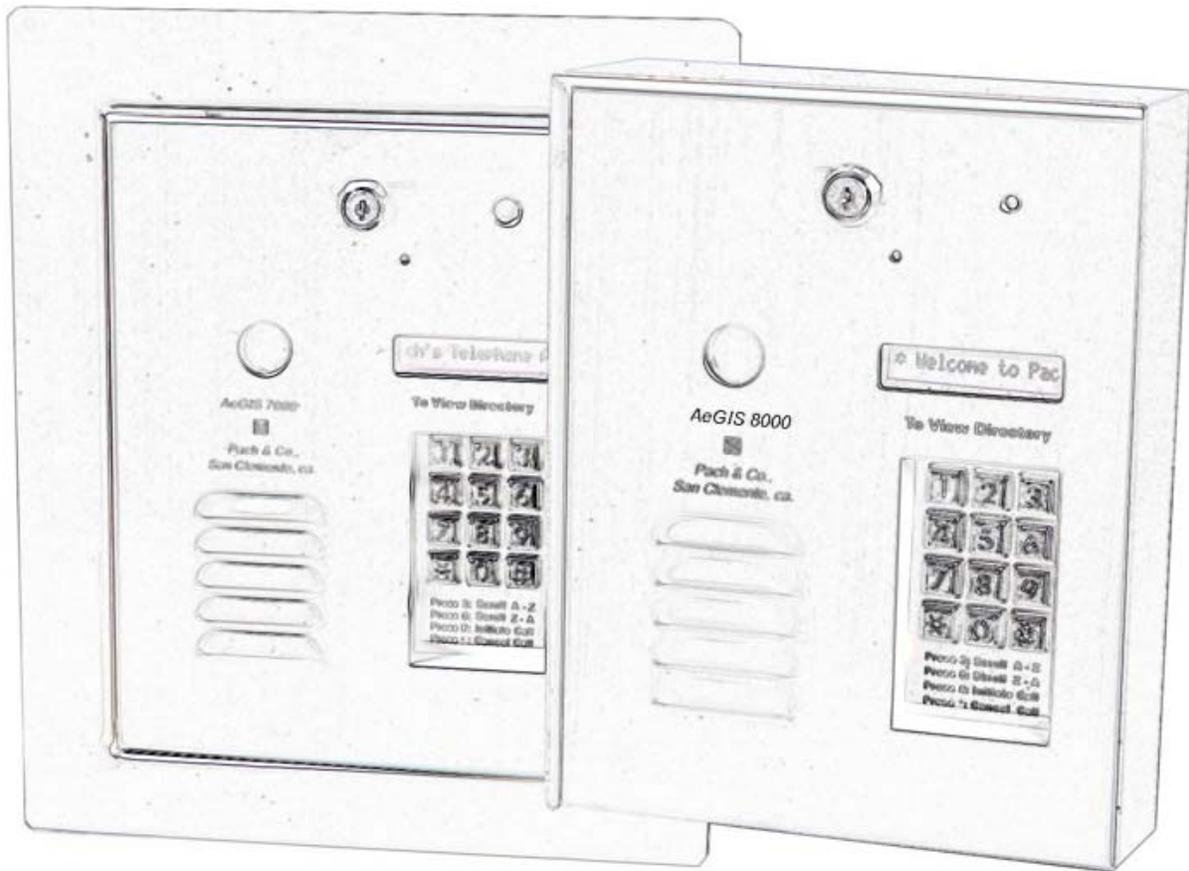
Rev. 06-2011

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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 8000P Series. Pach and Company does not assume liability for any incompatibility between the AeGIS 8000P 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

Introduction

Pach & Company thanks and congratulates you on the purchase of your AeGIS 8000P Telephone Entry Access Control Systems.

The manual is designed to guide you through the proper programming and use of the AeGIS 8000P Series. It is important for you to read and follow the manual completely.

The Aegis 8000P Series comes with two years warranty; see section 1.4 for more detail on warranty policy.

System Description, Specifications and Accessories

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

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

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

Standard features:

- o Program and store the tenant's name, directory code, telephone number and personal access code.
- o Unlocking door or gate remotely by the tenant using his or her telephone keypad.
- o Unlocking door or gate by the tenant using his or her own private access code.
- o Built-in back-light LCD directory, Postal Switch.
- o Works behind a PBX to dial extensions (analog only).
- o Keypad Activated to support Voice Mail.
- o Remote programming via dial-up modem using management software
- o 600 event buffer

Programmable features

- o 2, 3 or 4 digit directory code
- o Lock out count
- o Manual Unlock-Auto, count-down timer re-lock.
- o 4-digit unit master code protection
- o Open Interval

- o Talk Time timer

Technical Specifications

- o Power Input: 12 VAC 40 VA (supplied) or 12 VDC 40VA UL Listed Transformer
- o Current Consumption: 500mA idle, 700mA operation
- o Emergency Battery: 12Vdc, 4Ahr rechargeable (not supplied)
- o Telephone Line: Standard voice grade RJ11 jack.
- o Night Light: 14V 0.080A 15,000 Average life hours.
- o 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.
- o Relay Output: Form C Dry Contact 120 VAC 10A/ 24VDC 10A/ 250VAC 7A
- o Memory Type: Non-volatile
- o Tone Detection: Crystal controlled, capable of detecting short bursts 80 ms
- o Ringer Equivalence: 0.6B
- o Mounting: Surface or Full-Flush.
- o Construction: 16-gauge stainless steel
- o Shipping: 11 lbs. or 5 kg. Approximate
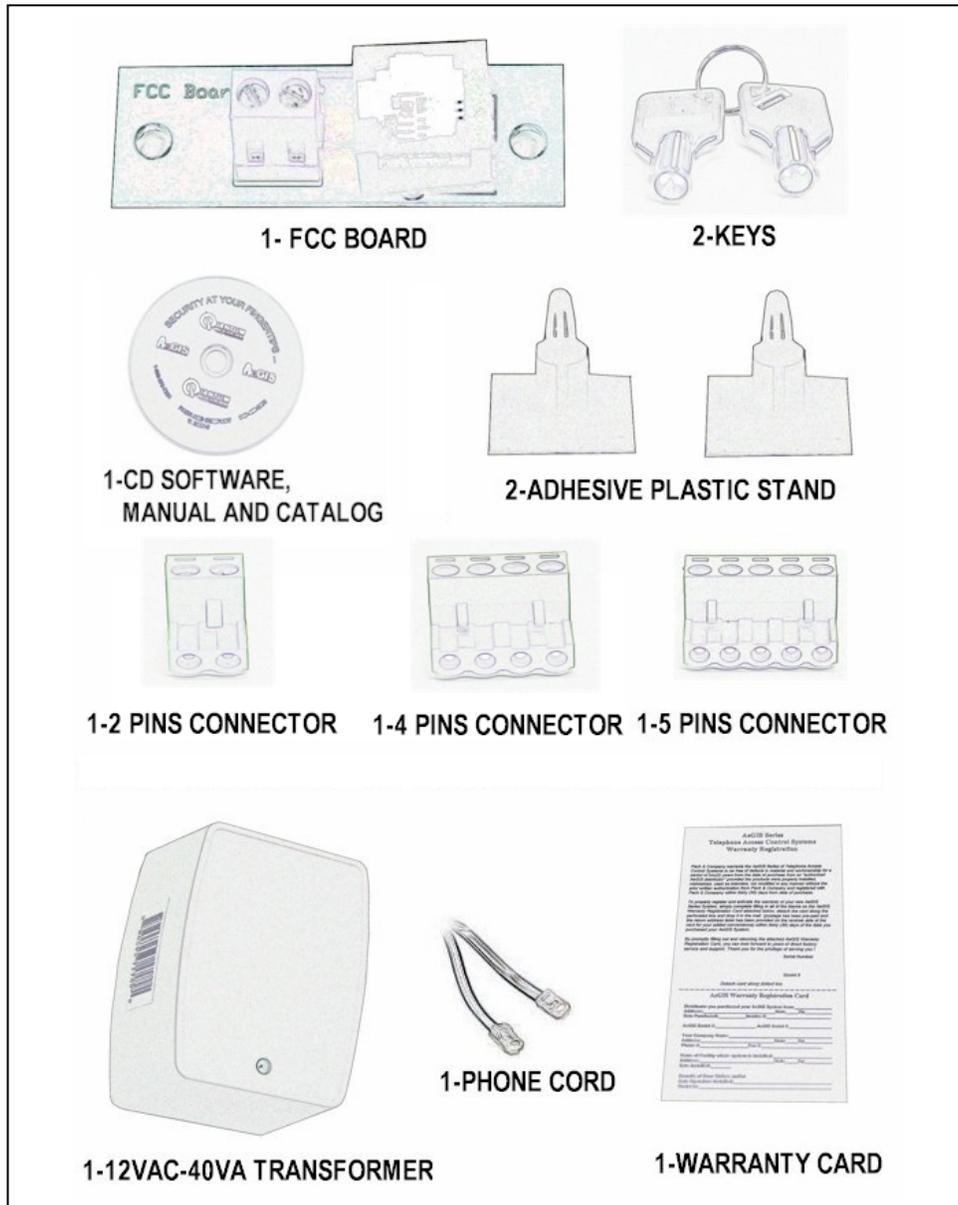- o Dimensions: 10.75" (27.3Cm) x 8.5" (21.6Cm) x 3.125" (7.9Cm) (HWD)

Specifications subject to change without prior notice

Accessories and Replacement Parts

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

Unpacking the System

All the items below come with the AeGIS 8000P Series. If you have missing items, please contact your distributor or Pach and Company at (888) 678-7224.

1- FCC BOARD

2-KEYS

1-CD SOFTWARE, MANUAL AND CATALOG

2-ADHESIVE PLASTIC STAND

1-2 PINS CONNECTOR

1-4 PINS CONNECTOR

1-5 PINS CONNECTOR

1-12VAC-40VA TRANSFORMER

1-PHONE CORD

1-WARRANTY CARD

Limited Warranty

Pach and Company new products are warranted to be free of defects in material or workmanship for a period of 24 month 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.

New Product Policy

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

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

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

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

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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

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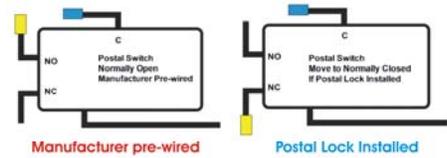
- The products must be properly re-installed as specified; and maintained or used as intended.
- Cause of repaired product failure is not due to vandalism or malicious mischief, improper installation, abnormal physical or electrical stress, lightning, power surges, misuse, negligence, accidents, or Natural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

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

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

Chapter 2
INSTALATION WIRING DIAGRAM
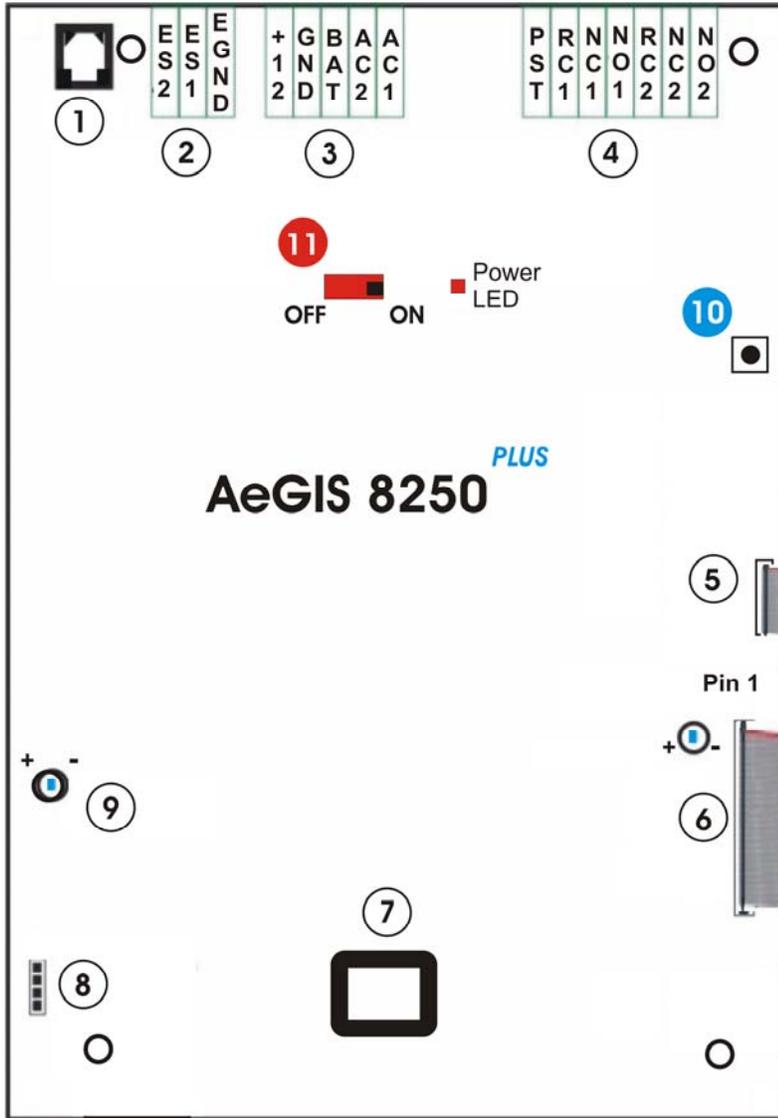
1. **Analog Telephone Input (dial tone)**

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

   ES 1 and ES 2: Not Applicable

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

   BAT 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

   Manufacturer pre-wired — Postal Switch Normally Open Manufacturer Pre-wired
   Postal Lock Installed — Postal Switch Move to Normally Closed If 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. **Keypad connector.** Red Line up.

6. **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.

   LCD Contrast: Clockwise (-) to decrease, counter clockwise (+) to increase.

7. **Modem Socket.** Modem is installed on 8250P

8. **Speaker and Microphone Connector.**

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

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

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

Figure 2.1

Checking your installation

1. Turn the "Power" On, the display will go into cycle mode as show

| LCD DISPLAY OK | ⇨ | FLASH OK | ⇨ | DTMF OK |

| INIT START | ⇨ | COMPLETE . . . | ⇨ | Welcome to Pach's |
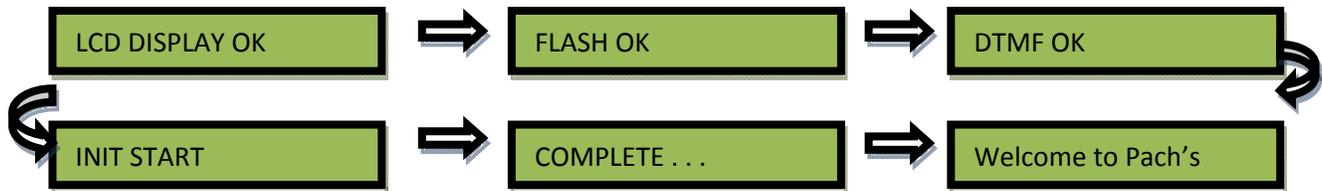
> ⚠ **WARNING: IF THE DISPLAY SHOWS BLANK SCREEN, TURN THE SYSTEM IMMEDIATELY**

2. Check for the tone on the keypad buttons 0-9, # and *

3. Clear the memory.

> ⚠ **REFER TO FUNCTION CODE 50 TO CLEAR SYSTEM'S MEMORY**

4. Adjust the speaker volume, press # wait for dial tone, clockwise-decrease, counter clockwise-increase refer to figure 2.1

Adjust the display intensity refer to figure 2.1. p11

Chapter 3
PROGRAMMMING

I.   Two ways to Log-on to programming mode:

First using system's keypad

1. *Press 0 and # simultaneously then release*, see below
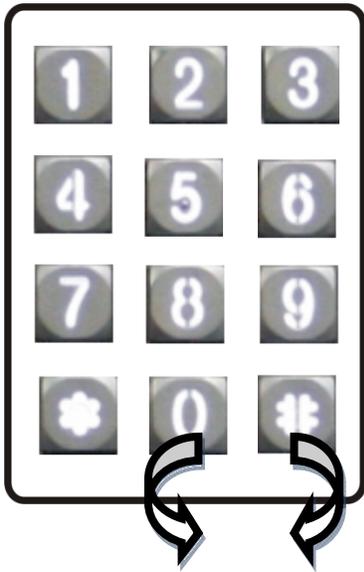
**Press 0# simultaneously, LCD screen will stop scrolling
if the LCD is still scrolling repeat the process
then 4-digit Master Code (0000 is default master code)**

2. The screen will show as below, if the master code is valid

```
Select Func: _ _
```
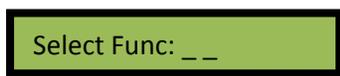
Long beep, if the master code is invalid, need key to unlock the system then use the second method to log-on to programming.

3. Select the programming function code.

Second using the Master Code retrieval button on page 11
1. Press and release black button (see figure 2.1, step 10), then the display will show:

```
Select Func: _ _
```
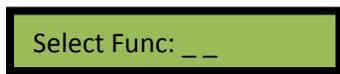
2. Select the programming function code.

II. Keypad Function and Layout

1	Q Z _ , . * q z 0 1 2 3 4 5 6 7 8 9
2	A B C a b c
3	D E F d e f
4	G H I g h i
5	J K L j k l
6	M N O m n o
7	P Q R S p q r s
8	T U V t u v
9	W X Y Z w x y z

0 Space, Erase

✿ Exit programming, Exit function code, Press and hold to abort call

✳ Press this key after entering each letter, function code, save programming. To innitiate a call

0 Then **✳** Erase, if 0 does not work

8 Then **0** Backspace

III. Programming Function Codes

FUNCTION CODE	PROGRAMMING
00 **MASTER CODE (0000 is default)** Change the master code for your security	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 00 then press # 　　MASTER CODE: 0000 2. Enter new 4-digit master code then press #
01 **ADDING NEW TENANT DIRECTORY** Each tenant must have unique directory. Directory can be set 2-4 digit. See function code 06, p17 NOTE: DO NOT START DIRECTORY WITH 00, 000, or 0000	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 01 then press # 　　Enter Dir: _ _ _ 2. Enter 2, 3 or 4 digit directory depending on function code 09 setting, then pres #

Enter the Name

_ _ _ _ _ _ _ _ _ _ _ _

3. Enter the person name up to 16-characters. Press # after entering each letter, see (**Keypad Function and Layout** page 14). Press ## after entering last letter. The screen will show

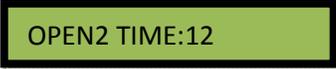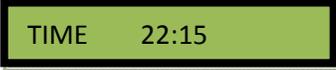PH#:_ _ _ _ _ _ _ _ _ _ _

4. Enter telephone number up to 11 digit, then press #,

Access Code:_ _ _ _

5. Enter 4-digit access code then press #. Repeat step 1 to program another tenant.

02
EDITING TENANT DIRECTORY

Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13

1. Enter function code 02 then press #

Enter Dir: _ _ _

2. Enter 2, 3 or 4 digit directory to be edited

Enter the Name

_ _ _ _ _ _ _ _ _ _ _ _

3. Enter the person name up to 16-digit. Press # after entering each letter, see (**Keypad Function and Layout** page 14). Press ## after entering last letter. The screen will show

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

4. Enter telephone number up to 11 digit, then press #,

Access Code:_ _ _ _

5. Enter 4-digit access code then press #.

	Repeat step 1 to edit another tenant directory.
03 **DELETING A DIRECTORY** NOTE: IF DIRECTORY DOES NOT EXIST, THE DISPLAY WILL SHOW Error on Delete !	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 03 then press # Delete Dir: _ _ _ 2. Enter directory number to be deleted (i.e. directory 001) then press # 001 is deleted!
04 **DELETING ALL DIRECTORY**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 04 then press # Delete all ? 13 **2. Press 13 then #** Are you sure ? 5 **3. Press 5 then #** Room No: 0
05 **MANUAL OPEN AND CLOSE RELAY 1** 00= close 01-99= open 01-98 hours timer 99= open for indefinite time	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 05 then press # OPEN1: 00 HOURS 2. Enter 01-98 hours timer, 00=close or 99= open for indefinite time then press #
06 **MANUAL OPEN AND CLOSE RELAY 2** 00= close 01-99= open 01-98 hours timer 99= open for indefinite time	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 05 then press # OPEN2: 00 HOURS 2. Enter 01-98 hours timer, 00=close or 99= open for indefinite time then press #

07 **SINGLE OR MULTI SYSTEM** 1= Single 0= Multi Default is single NOTE: SET TO MULTI IF MORE THAN ONE SYSTEM SHARING ONE PHONE LINE	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 07 then press # SING=1, MULT=0: 1 2. Select 1 or 0 then press #
08 **SYSTEM ID** Not applicable	Not Applicable
09 **DIRECTORY DIGIT** 2, 3 or 4 digit Default is 3-digit NOTE: ALL TENANT DIRECTORIES MUST HAVE SAME NUMBER OF DIGIT ⚠ **WARNING: CHANGING THE DIRECTORY DIGIT WILL ERASE ALL TENANT DIRECTORY**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 06 then press # DIR DIGITS: 3 2. Replace the directory digit to 2 or 4 digit, then press # Wait …..
10 **WELCOME MESSAGE** Welcome message is up to 48-characters and divided into 3- segments and 16-characters for each segment	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 10 then press # Welcome to Pach' 1st segment 2. Change the welcome screen, , see (**Keypad Function and Layout** page 14). 3. Press # after entering the last letter on 1st segment s Telephone Acce 2nd segment 4. Press # after entering the last letter on 2nd segment ss System …** 3rd segment 5. Press # after entering the last letter on 3rd segment

11 **DOOR2 OPEN TIME** 04-99 Seconds Default is 12 seconds	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 71 then press # OPEN1 TIME:12 2. Press 04-99 then press #
12 **DOOR2 OPEN TIME** 04-99 Seconds Default is 12 seconds	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 71 then press # OPEN2 TIME:12 2. Press 04-99 then press #
14 **SYSTEM'S TIME** Military time	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 14 then press # TIME 22:15 2. Enter the hour (in military) then press # Enter the minute then press #
15 **DAY LIGHT SAVING** 0= live-in no day light saving zone 1= live-in day light saving zone	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 15 then press # DaylightSave?1,0 2. Enter 0= no day light saving or 1= day light saving then press #
16 **CHECK SYSTEM'S DATE**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 16 then press # FRI FEB. 18. 2011
17 **SYSTEM'S DATE**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 17 then press #

| | ```
Date:MMDDYYYYD
``` |
	2. Enter **MM**= Month, for example 02 **DD**= Date, for example 12 **YYYY**= Year, for example 2011 **D**= Day, 0=Sun, 1=Mon, 2= Tue, 3= Wed, 4=Thu, 5=Fri, 6= Sat then press #
19 **INTIALIZING EVENT RECORDING** 0= cancel 1= erase ⚠️ **WARNING: ALL EVENT WILL BE ERASE NO WAY TO RECOVER**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 18 then press # ```InitEVR(0,1):``` 2. Enter 0=cancel or 1=erase then press #
20 **REMOTE OPEN DOOR 1 DTMF NUMBER** Select 1-9 Default is 9 **NOTE: DTMF NUMBER SELECTED FOR DOOR 1 MUST BE DIFFERENT THAN DOOR 2**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 20 then press # ```OpenDoor1 No:9``` 2. Enter 1-9 (default is 9) then press #
21 **REMOTE OPEN DOOR 2 DTMF NUMBER** Select 1-9 Default is 8 **NOTE: DTMF NUMBER SELECTED FOR DOOR 2 MUST BE DIFFERENT THAN DOOR 1**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 21 then press # ```OpenDoor1 No:9``` 2. Enter 1-9 (default is 9) then press #
40 **MASTER CODE MASK** 0= Unmask 1=Mask Default is Unmasked	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 40 then press # ```MC_MASK 1=YES:0``` 2. Select 0=Unmask or 1=Mask then press #

⚠️ **WARNING: MASKING THE MASTER CODE WILL DISABLE THE RETRIEVAL BUTTON. THERE ISN'T A WAY TO RECOVER THE MASTER CODE. PACH AND COMPANY WILL NOT COVER THE WARRANTY IF THE MASTER CODE HAS BEEN FORGOTTEN.** **IF YOU ARE THE INSTALLER DO NOT MASK THE MASTER CODE.**	
46 **FIRMWARE VERSION**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 46 then press # V:8250 02/16/11 V:8250 is model number 8250P 02/16/11 is firmware release date
50 **ERASE MEMORY TO FACTORY DEFAULT SETTING** 1= Erase 0= Cancel ⚠️ **WARNING: SYSTEM WILL BE RESTORED TO FACTORY DEFAULT, ALL DATABASES WILL BE ERASED, NO WAY TO RECOVER.**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 50 then press # 1 to Confirm: _ 2. Press 1= erase or 0= cancel then press #
51 **ENABLE NO PHONE BILL** Not applicable	Not applicable
70 **MODEM PROTOCOL** 0= Bell 1= V22 Default is V22	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 70 then press # 1_V22,0_BELL:1 2. Press 1= V22 or 0= BELL then press #
71 **ENABLE MODEM** 0= Disable 1= Enable Default is Enable	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 71 then press #

	EN-MODEM(0,1):0
	2. Press 1= enable or 0=disable then press #
72 **LOCK OUT COUNT** 1-9 Times Default is 3 times ⚠ **WARNING: SYSTEM WILL BE DISABLED FOR 90 SECONDS IF INVALID ACCESS CODE HAS BEEN ENTERED ACCORDING TO THE SETTING OF LOCK-OUT COUNT.**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 72 then press # LOCK-OUT CNT:3 2. Press 1-9 then press #
73 **TONE OR PULSE** Not Applicable	Not applicable
74 **AUTO ANSWER** 1= enable 0= disable Default is 1 (enable) The system will answer incoming call between 2nd- 4th ring. Press * to establish two ways communication with the person at the system	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 74, then press # AUTO ANSWER=1:1 2. Press 1= enable or 0= disable then press #
75 **KEYPAD BEEP OFF** 1= enable (beep on) 0= disable (beep off) Default is 1 (enable)	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 75 then press # BEEP On=1Off=0:1 2. Press 1= enable or 0= disable then press #
76 **OPENING DOOR BEEP OFF** 1= enable (beep on) 0= disable (beep off) Default is 1 (enable)	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 76 then press # UnlockBeep (1,0) 1 2. Press 1= enable or 0= disable then press #

77 **PBX** 0= disable 1= enable Default is disable	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 77 then press # PBX_EN(1,0):0 2. Press 1= enable or 0= disable then press #, if 1 is selected, the screen will show: PBX _No(0-9): _ 3. Select the number for the PBX to access an outside line, typically is 9, Delay(1-5S): 4. Select delay time (1 second to 5 second), most PBX will take 1-2 seconds delay time
78 **VIEW DIRECTORY BY NAME** Directory number can be viewed if the tenant name is programmed into the directory. Tenant's name will show in alphabetical order. ⚠ **WARNING: IF THE DIRECTORY IS USED TO PROGRAM THE 4-DIGIT ACCESS CODE OR TELEPHONE NUMBER WITHOUT NAME, THEN FUNCTION CODE 78 WILL NOT WORK**	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 78 then press #, the display will show as an example shown PACH AND COMPANY 2. Press 3- scroll A-Z 6- scroll Z-A 3. Press # to view the directory associated with the tenant's name. DIR:001 4. Repeat step 2 to view next tenant's directory.
79 **TALK TIME** 010-180 seconds Default is 60 seconds	Must be in programming mode, see **Two ways to Log-on to programming mode:** on page 13 1. Enter function code 77 then press # TALK TIME: _ _ _ 2. Press 010-180 seconds then press # PBX#: _ _ _ _

91 **TOTAL NUMBER OF TENANT DIRECTORY** Number of tenants are occupied the system memory	Must be in programming mode, see **Two ways to** **Log-on to programming mode:** on page 13 1. Enter function code 91 then press # Total TnT: 025 2. The display above is shown the total number of tenant's directory is 25

Chapter 4
SYSTEM'S OPERATION

A. How to view tenant's directory	1. Press (scroll A-Z) or 2. Press (scroll Z-A)
B. How to initiate a call from the system	Two ways to initiate a call 1. By scrolling (see A, press 3 or 6 to scroll) then press # to call 2. By directory, press # (wait for dial tone) then press the tenant's directory number. NOTE: VISITOR MUST KNOW THE TENANT'S DIRECTORY NUMBER
C. How to release the door remotely	1. Establish a communication 2. Tenant must press 9 to release the door. ⚠ ALTHOUGH, THE SYSTEM IS TESTED WITH MOST PHONES, COMPATIBILITY ISSUE MAY STILL BE OCCURRED, ESPECIALLY WITH VOICE OVER IP (VOIP) PHONE. PULSE PHONE WILL NOT WORK
D. How to make a call to an extension or voice mail	1. Established a communication 2. Press the voice mail or extension number using the system's keypad.
E. How to extend talk time	Talk time is set using function code 79 (10-180 seconds), see p22. 1. Establish a communication 2. Warning beep will be heard 10 minutes before the talk time expired. 3. Press # to extend the talk time
F. How to call into the system	You must know the system's phone number 1. Call the system's phone number 2. The system will answer between 2nd - 4th rings, then *BEEP BEEP!* will be heard

	3. Press to establish communication 4. Press 9 to release the door.
G. How to use the 4-digit access code to open the door	1. Press , the welcome screen will stop scrolling otherwise repeat this step. 2. Press 4-digit valid access code. ⚠️ **WARNING: SYSTEM WILL BE DISABLED FOR 90 SECONDS IF INVALID ACCESS CODE HAS BEEN ENTERED ACCORDING TO THE SETTING OF LOCK-OUT COUNT (FUNCTION CODE 72, p19)**
H. How to increase or decrease the display's intensity	1. Locate the display intensity adjustment see figure 2.1, p11 2. Turn **counter clockwise to increase or clockwise to decrease**
I. How to increase or decrease the speaker's volume	1. Locate the speaker's volume adjustment see figure 2.1, p11 2. Turn **counter-clockwise to increase or clockwise to decrease**
J. How to check the total tenant's directory in the system	Use Function code 91, see chapter 3, p23
K. How to check my system model number	Use Function code 46, see chapter 3, p20

Chapter 5
TROUBLE SHOOTING GUIDE

AUDIO PROBLEMS	
No audio on key(s) press	1. Turn the system's power off and on 2. Check the speaker and microphone connection, check for broken wires. 3. Disconnect the microphone and speaker connector then check the speaker's impedance, must read between 18-24 ohms
No dial tone	1. Turn the system's power off and on 2. Check the phone line for dial tone. Must check at the end of the phone cord. 3. Disconnect the microphone and speaker connector then check the speaker's impedance, must read between 18-24 ohms
Tenant can't hear from the system	1. Turn the system's power off and on 2. Check the speaker and microphone connection, check for broken wires
Visitor can't hear tenant	1. Turn the system's power off and on 2. Check the speaker and microphone connection, check for broken wires. 3. Disconnect the microphone and speaker connector then check the speaker's impedance, must read between 18-24 ohms
DISPLAY PROBLEMS	
Display shows non-readable characters	1. Turn the system's power off and on 2. Erase the memory to factory default, see function code 50, p18.
Display shows blank	1. Turn the system's power off and on 2. If this is a new installation, turn the system power OFF immediately. LCD's ribbon connection may be incorrect. Call our technical department 1-888-678-7224 3. Adjust the LCD's intensity, see figure 2.1 p11 4. Possibility is bad display
Displays shows 8-square blocks	1. Turn the system's power off and on 2. Turn down the LCD's contrast, see figure 2.1 p11 3. Possibility is bad main board
Display is hard to read	1. Turn the system's power off and on 2. Turn up the LCD's contrast, see figure 2.1 p11 3. Low temperature may cause this issue, install

	a heater pad (AHP5)

COMMUNICATION PROBLEMS	
No dial tone	1. Turn the system's power off and on 2. Check the phone line for dial tone. Must check at the end of the phone cord. 3. Disconnect the microphone and speaker connector then check the speaker's impedance, must read between 18-24 ohms 4. Check the telephone line voltage, standard analog line voltage is 48-52 Vdc.
System can't call out	1. Press # for dial tone if no dial tone; check the telephone line using a standard phone. Must check at the end of the phone cord. 2. Press #, make sure the dial-tone has no static. 3. Check the tenant's directory phone number. 4. Program different number to call 5. Place a call from the phone line to the same phone number using a standard phone
Hear Static on phone line	1. Ground or remove the ground. 2. Power the board outside the cabinet. 3. Install a DSL filter
Hear radio station on phone line	1. Ground or remove the ground. 2. Power the board outside the cabinet. 3. Install a DSL filter 4. Install RF filter

DOOR OR GATE PROBLEMS	
Remote access 9 does not provide access to visitor	1. Recycle the system's power 2. Does this problem occur on all tenants? If no, phone compatibility issue. 3. Some VOIP phone may not be compatible 4. Check the door or gate connection 5. Make sure the door or gate is in operational 6. Telephone line must be cleaned. Check the dial tone by pressing #

KEYPAD PROBLEMS	
A single key do not work	1. Check and feel the button, compare with the rest of the buttons. 2. Possibility of bad keypad, replace the keypad
All keys at same row or same column do not work	1. Check for any broken or pinched on ribbon cable 2. Possibility is bad main board

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 - 3:30 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.

Key	Function	Code	Function
*	Exit program, clear field, reset keystroke.	19	Initialize event recording buffer
#	Save program	20	Remote unlock relay 1 (1-9, 9 is default)
00	Change master code (0000 is default)	21	Remote unlock relay 2 (1-9, 8 is default)
01	Add new tenant	40	Master code mask. Warning: read manual for more detail.
02	Edit existing tenant	46	Display system's information
03	Delete existing tenant	50	Clear memory to factory default
04	Clear all tenants	51	Enable No Phone Bill Must be set to 0
05	Manual unlock/lock relay 1 with timer (01-98 hours, 99 hours unlock hold, 00 hours to lock)	70	Select Modem Protocol V22 or B212
06	Manual unlock/lock relay 2	71	Enable Disable Modem
07	Single or multi system (single is default)	72	Invalid code lock-out count (1-9). 3 is default
08	System ID number (n/a)	73	Tone/pulse dialing. Tone is default
09	Directory digit (2, 3 or 4 digit, 3 digit is default)	74	Enable/disable auto answer. Enable is default
10	Edit scrolling message	75	Enable/disable keypad press beep. Enable is default
11	Relay 1 unlock interval (04-99 seconds, 12 seconds is default)	76	Enable/disable speaker beep. Enable is default
12	Relay 2 unlock interval	77	Enable/disable PBX. Disable is default
14	Set system clock	78	View name and directory
15	Day light saving	79	Talk time (10-180 seconds). 60 second is default
16	Display current time	91	Total number of tenant. Tenant with no name will not be included
17	Set system date		

Two ways call from the system

1. Press **3** (DEF) to scroll name from A-Z or **6** (MNO) 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** (WXYZ) to release relay 1 (door 1) or **8** (TUV) to release relay 2 (door 2). Or see function code 20 and 21

Opening the door using the access code press ***** (display screen will stop 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. The system modem must be disabled and function 74 (auto answer must be enabled).
2. Call the system's phone no., you will hear "**TWO BEEP**", then press ***** to talk to your visitor. Press **9** (WXYZ) or **8** (TUV) to release the door

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A·EGIS 8000 PLUS

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

- Parts above are only included on complete system (8250)
- 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 Func: _ _

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

1. Press **#** after selecting a letter or 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** (TUV) **0** for backspace

■ **Black Button go to programming without Master Code**

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 number.
What is Access Code: 4-digit code for tenant to open the door or gate.

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