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LIMITATIONS OF LIABILITY

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

Pach and Company does not assume any liability for any damages, which may arise in installation or use of the AeGIS 9000 Series. Pach and Company does not assume liability for any incompatibility between the AeGIS 9000 Series and users devices.

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

Chapter 1

GETTING STARTED

1.1 Introduction

Pach & Company thanks and congratulates you on the purchase of your AeGIS 9000 Series (9025R125, 9050R125, 9070R125, 9100R125, 9250R275, 9500R525, 9625R650, 9750P800 and 91000P1075) Telephone Access Control Systems. The access code can be programmed as a restricted or unrestricted on the “R” version. The access code is always unrestricted on the “P” version.

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 in our two years warranty if surge protection is installed with the systems.

1.2 System Description

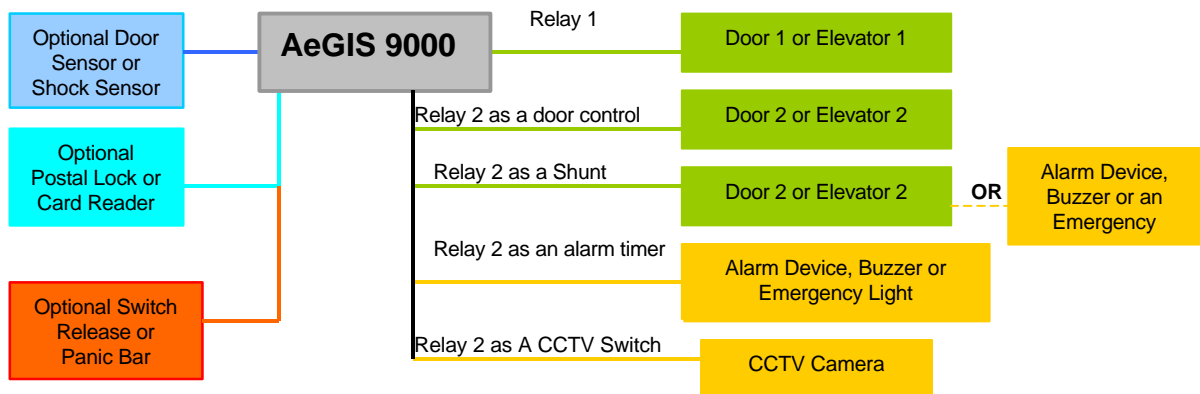
AeGIS 9000 Series utilizes microprocessor technology to provide security as well as convenience to you. It is designed for residential and commercial buildings, military and government sites, industrial facilities, or any location where access control is required. It uses a dedicated phone line and connects to the public telephone network. Authorization for access control is through the telephone line, or with the tenant’s own access code, which is entered on the system keypad. The tenants MUST have a telephone to allow remote visitor access. It can be programmed to unlock and lock doors or gates to your convenience.

As a standard feature, the tenant is allowed to “call” the Aegis unit and converse with the visitor and “remote programming” using a touch tone phone or optional programming via a modem or an RS-232.

The system parameters and tenants data will be entered via the keypad and the 2- Line LCD provides easy display (local programming) or the database can be entered using the optional Management Software (remote programming via modem or an RS-232). EEPROM technology is used on AeGIS 9000 series. The tenant database will not be lost during a power failure.

1.3 System Applications

The AeGIS 9000 Series can be installed for various types of applications to suit your needs. The block diagrams below are the examples of typical applications. If you need more information about your applications, you may call us at 1 (888) 678-7224 from 7:30 AM – 4:30 PM Pacific Standard Time.



1.4 System Specifications

Standard features:

- Program and store the tenant's name, directory code, telephone number and personal access code.
- Unlocking door or gate remotely via a telephone keypad.
- Unlocking door or gate by the tenant using his or her own private access code.
- RemoteTouch Tone Phone Programming.
- Support PBX
- Multi purpose secondary relay as door control, shunt, alarm timer or CCTV switch.
- Door sensor input.
- Built-in backlight 2 line LCD directory.
- Postal Switch.
- Programmable features:
 - 2, 3 or 4 Digit Directory Code
 - Lock Out Count
 - Manual Unlock-Auto Countdown Re-lock.
 - Programmable Tenants Database, Time Zone, Auto Unlock Schedules, Holidays and Restricted Access Codes.
 - 4 Digit Unit master Code
 - Open Interval
 - Talk Time

Optional features:

- Remote programming using the AeGIS 9000 Management Software (Windows '95/'98 compatible) via a modem. Personal Computer with modem is required.
- Local programming using the AeGIS 9000 Management Software (Windows '95/'98 compatible) via an RS-232. Personal Computer with an RS-232 port is required.
- Local Programming using a Personal Computer (PC) keyboard.
- Event Recording via the Management Software with 1200 events buffer size.

Technical Specifications:

Power Input: 12Vac/dc 40VA UL Listed Transformer (Pach supplied)

Current Consumption: 250mA idle, 450mA operation

Emergency Battery: 12Vdc, 4Ahr rechargeable (customer supplied)

Telephone Line: Standard voice grade RJ11 jack

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

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

Memory Type: EEPROM

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

Ringer Equivalence: 0.6B

Mounting: Surface or Flush Mount

Construction: 16 Gauge Cold Rolled Steel with Brushed Stainless Steel or Polished Brass Finished Faceplate.

Shipping: 16 lbs. or 7.3 Kg. Approximate

Dimensions: 13.5" (34.3Cm) x 11.25" (28.6Cm) x 3.875" (9.8Cm) (HWD)

NOTE: Specifications are subject to change without notice.
The AeGIS 9000's keypad will be deactivated after a connection with a tenant is established.

1.5 System Accessories

Pach and Company Part Number	Description
NLK9	Night-light kit.
SFM9	Semi-flush Mounting Ring
SFM9N	Semi-flush Mounting Ring with Night-light kit
SFM9-6	Wide Semi-Flush Mounting Ring
SFM9N-6	Wide Semi-Flush Mounting Ring with Night-light kit
9SHLD	Sun Shield
ASP1	AC and Telephone Surge Protector
AHP-5	Heater pad with Thermostat
APM1	AeGIS Pedestal Mounting Post
AP9	Adapter plate for APM1
9XMFR	9000 Series Power Transformer
AVP9	AeGIS Video Package
AVP9C	AeGIS Video Package (Color).
AVPX	AeGIS Video Package Power Transformer
AKYS	AeGIS key Sets (2 keys per set)
SK9	Satellite Keypad for AeGIS 9000
PK81	Programming keyboard for AeGIS 9000
AMS95	Remote Data Management Software
9MAN	AeGIS 9000 Series Installation and program manual

1.6 Unpacking the System

After you unpacked the package, check the serial number on the printed circuit board, cabinet and warranty card, they must match. If they do not match, please contact Pach and Company toll free number at (888) 678-7224. All the items listed below come with the AeGIS 9000 Series.

- AeGIS 9000 Series System with a Modem board.
- 9XMFR (9000 Power Transformer, 12VAC 40VA).
- Two of 7-pins terminal connector (inside the unit's cabinet).
- A 5-pin terminal connector (inside the unit's cabinet).
- A 3-pin terminal connector (inside the unit's cabinet).
- Key sets (2 keys per set)
- Installation and Program Manual.
- Warranty Card with unit's serial number.

If you have missing items, please contact your distributor or Pach and Company at **(888) 678-7224**.

1.7 Warranty

The AeGIS 9000 Series come with a **two years warranty for parts and labor**. We will include lightning strikes in our two years warranty if surge protection is installed with the system. 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.

Chapter 2

INSTALLATION GUIDELINES

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.

- Two conductors, 18-gauge minimum, shielded wire for power.
- Two conductors, 18-gauge minimum, shielded wire for door strike.
- Two conductors, 18-gauge minimum, shielded wire for telephone line.
- Two conductors, 18-gauge minimum, shielded wire for battery backup (optional).
- Surge protection **MUST** be installed to include lightning on your two years warranty.
- You must have active telephone line. You may share the line with your telephone but you are only able to use one equipment at a time. Do not share the AeGIS's line with an Emergency Phone or Fire Alarm.
- **ONLY** use Class 2 transformer rated 12 VAC or 12VDC 40 VA to power the AeGIS 9000.
- Do not run high voltage cables inside the same conduit as the AeGIS System wires.
- The AeGIS 9000 Series can be installed indoor or outdoor.
- An optional RS-232 cable and connectors and door ajar sensor switch and wires.

2.1 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:

- 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.

2.2 Telephone Line

Use AeGIS AC/Telephone Surge protector (ASP-1) to protect your investment. See ASP-1 installation manual for wiring diagram. Your AeGIS's warranty will be included against lightning if you install proper surge protection.

- Connect the telephone line to the connector labeled Tip and Ring (polarity is not important). See figure 2.1 for wiring diagram. **You MUST use 18 gauge-shielded wire minimum** to avoid radio reception or any other noise problems.
- If a PBX line is used, connect the AeGIS 9000 Series to a PBX's **analog port**. Do not connect it to PBX's digital port. Use the same wiring as above. The AeGIS 9000 can dial extensions behind a PBX or dial an outside phone number (i.e 9, 19494982951). **Do not combine between the two dialing methods.** See Function Code 42 to program a PBX in more detail.

NOTE: Ground one end of the shield to the earth ground and leave the other end open. Do not ground the telephone shield to the AeGIS 9000. Ground the telephone wires' shield to the telephone block's ground.

If you have more than one AeGIS 9000 Series on the same line, only one AeGIS 9000 can be used at a time.

2.3 Power

2.3.1 Alternating Current (AC) Power

Use the transformer provided by Pach & Company for your AeGIS 9000. **INPUT** 120 VAC 60Hz 47W, **OUTPUT:** 12 VAC 40VA.

- Connect the transformer's output (secondary) to PWR and PWR (labeled on the board, polarity is not important) and the primary to 110 VAC. If ASP-1 is used, see the ASP-1 instructions. **You MUST use 18 gauge-shielded wire minimum.** See figure 2.1 for wiring diagram.

NOTE: Check your wiring before you apply power to the system.

- Turn the power switch "ON" (left position). The Power Light Emitting Diode (LED) will be "ON". You will see :
 - "% Sorting Database %" (line 1 on the Liquid Crystal Display (LCD)) and "Please Wait..."(line 2 on the LCD) for a few seconds and then you will see
 - " Welcome to Pach's Telephone Access Systems"(line 1) and "Press 3 for Dir" (line 2) on the LCD.
- Erase the memory to factory default setting using Function Code 50. See Chapter 3 in more detail.
- Turn the power "OFF" (left position). The LED will be "OFF" in a few seconds.

2.3.2 Direct Current (DC) POWER

You may use **12VDC 40VA** power supply to power the AeGIS 9000 Series, not supplied by Pach and Company (see figure 2.3).

- Connect the power supply's (+) and (-) terminals to PWR and PWR (polarity is not important).
- Connect the 12 VDC rechargeable battery parallel with the DC power supply as shown in figure 2.3 (polarity is important).

WARNING: Use the correct specification of DC Power Supply to charge the 12VDC battery. Power Supply Amperes rating may vary depending on the amperes of the battery back up you are using.

Do not connect the battery backup to terminal labeled BAT and COM if DC power is used, otherwise the battery will not be charged.

2.4 Battery Backup Connections

2.4.1 Using AC Power

Optional emergency battery can be installed on the AeGIS 9000. The battery will keep the system in full operation during a power failure. Recommended battery is 12 VDC, 4Ahr rechargeable (customer supply). The life of the battery depends on the type of battery used and the frequency of use on the system during a power failure.

- The connection is polarity sensitive. Connect (+) terminal of the battery to the connector labeled (BAT) on the AeGIS 9000 and the battery's (-) terminal to the connector labeled COM on the AeGIS. See figure 2.1 for wiring diagram.

2.4.2 Using DC Power

Optional emergency battery can be installed on AeGIS 9000 if DC power supply is used. See the wiring diagram on figure 2.3.

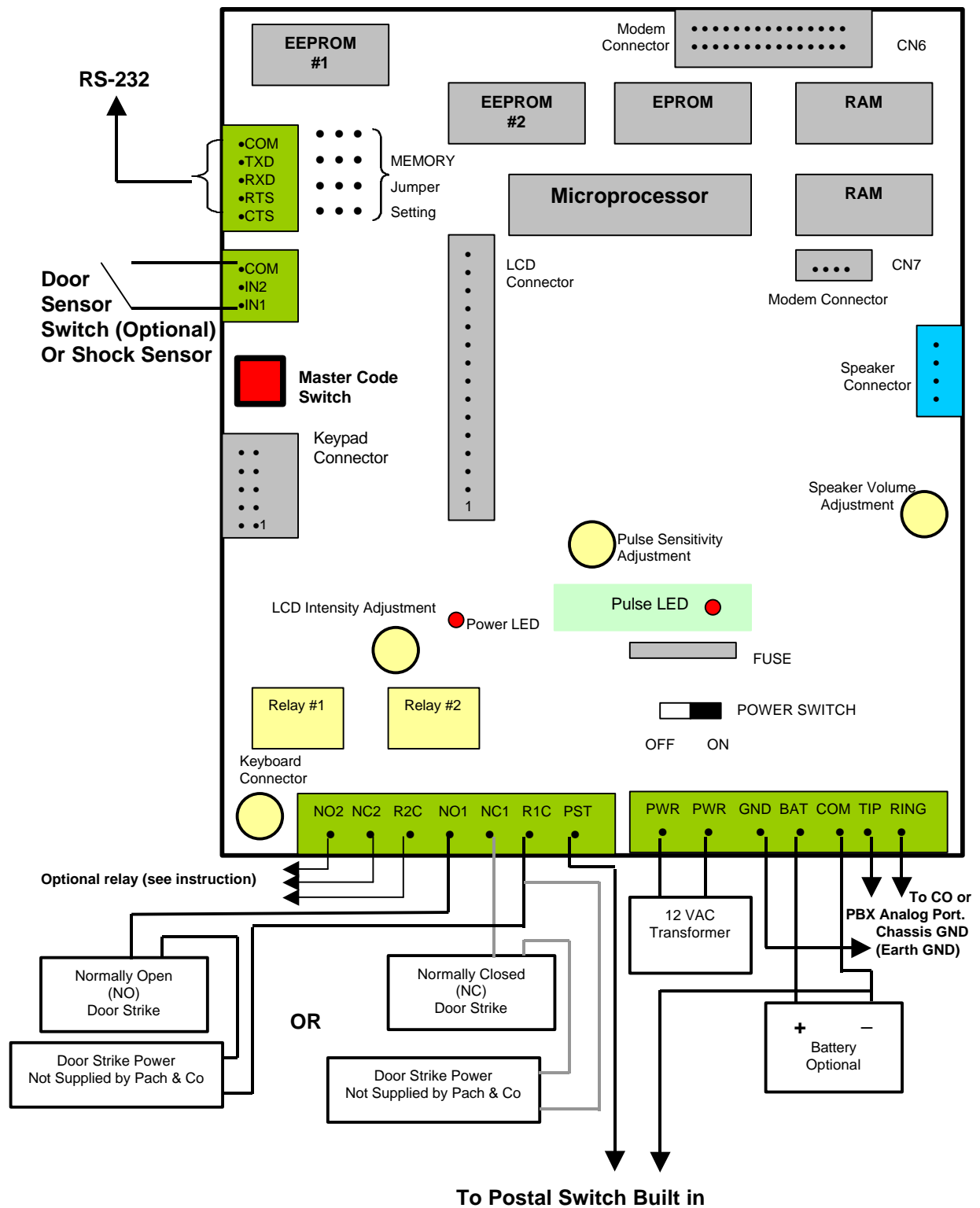


Figure 2.1 AeGIS 9000 Wiring Diagram

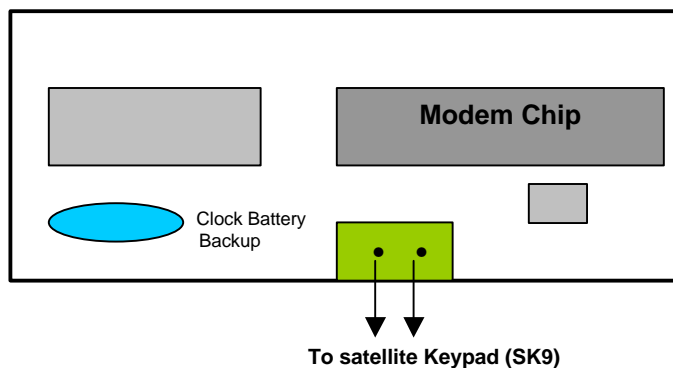


Figure 2.2 Modem Board (daughter board)

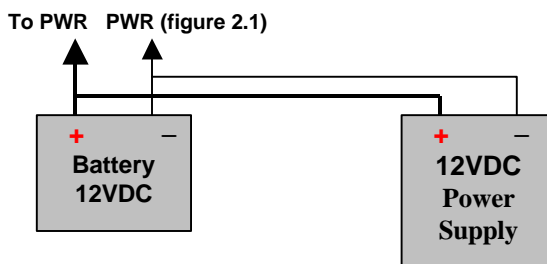


Figure 2.3 DC Power and Battery Back-up

2.5 Postal switch

The AeGIS 9000 system comes with pre-wired “**Normally Open**” postal switch. If the postal switch is pressed, the gate will open. If you need “**Normally Closed**” postal switch, do the following:

- Disconnect the wire on pin labeled NO (Normally Open) and reconnect it into the pin labeled NC (Normally Closed).

The postal lock is not included. You have to purchase the postal lock from your local post office. See figure 2.4 to alter the postal switch to normally close.

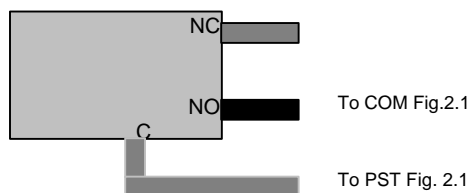


Figure 2.4 Postal Switch Wiring Diagram

2.6 Door Strike

The AeGIS 9000 series provides a Form “C” dry contact: Normally Open (NO) and Normally Closed (NC).

- Use terminals RC1 and NC1 or RC2 and NC2 if door control is Normally Closed or
- Use terminals RC1 and NO1 or RC2 and NO2 if door control is Normally Open.

NOTE: The RC2 and NC2 or RC2 and NO2 on relay 2 can be used as a door control if set in “door control mode”. If relay two is used for different application (mode) other than door control, see function code 08 on the next chapter for more detail.

See figure 2.1 for door strike wiring diagram. **You MUST use 18 gauge-shielded wire minimum.** Use an MOV or other surge suppresser device across the door strike leads to limit the possibility of door strike related system failures. The system relay specifications are below.

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

2.7 RS-232

The RS-232 built-in port on the AeGIS 9000 Series can be used for local programming with the AeGIS 9000 Series Management Software. See the table below to connect the AeGIS 9000 RS-232 port to DB-9 or DB-25 connector. The DB-9 or DB-25 is not supplied by Pach And Company.

AeGIS 9000 Series RS-232 Port	DB-9 Connector	DB-25 Connector
Com (Top pin)	Pin 5 (Com)	Pin 7 (Com)
TXD	Pin 2 (RXD)	Pin 3 (RXD)
RXD	Pin 3 (TXD)	Pin 2 (TXD)
RTS	Not Connected	Not Connected
CTS	Not Connected	Not Connected

Chapter 3

PROGRAMMING

This chapter explains how to program the Tenant Directory Database and System Parameters. It provides a listing of Function Codes, descriptions and reference page numbers. Factory default settings are listed in this chapter. The defaults remain in effect until they are changed via the Parameter Programming. When initialization occurs, the system will return to the factory default setting.

Function Codes Tables

Function Code	Description	Reference Page
*	Exit Programming Mode (Local Programming) or clear the existing program.	14
#	To accept program	14
00	Change Unit master Code	14
01	Talk Time (10-240 seconds)	16
02	Open Interval Relay 1 and relay 2	16
03	Lock-Out Count	17
04	Tone or Pulse	18
05	Single or Multi System	18
06	System ID	19
07	Enable or Disable Remote Phone Programming	19
08	Relay 2 Mode (1-4)	20
09	Alarm Telephone Number	21
10	Manual Unlock/Lock Doors	21
11	Edit Welcome Message Display	22
12	Set Time and Date	24
13	Time Zone	26
14	Holiday Schedule	28
15	Auto Unlock Schedule	30
16	Reinitialize Time Zone Schedules	32
17	Reinitialize Auto Unlock Schedules	32
18	Reinitialize Holiday Schedules	33
19	Reinitialize Events Recording	33
20	New Tenant Code	34
21	Modify Tenant Code	35
22	Delete Tenant Code	37
23	Clear all Tenants	38
24	Enable or Disable Access Code Expanded Mode	38
25	Ready for RS-232	39
26	Enable or Disable RS-232	40
27	Enable or Disable Modem Programming	40
28	Change Directory Digits	41
29	Alarm Delay	42
30	New Access Code	42
31	Modify Access Code	43
32	Delete Access Code	45
33	Clear All Access Codes	46
40	Master Code Mask	47
41	Open Door Beep	47

42	Enable or Disable PBX	48
43	Open door 1 and door 2 number	49
46	Display System Information	50
50	Clear the EEPROM Memory	50
78	View Directory and Name	51
91	Exit Programming Mode via Telephone	52

Parameter Default Settings Tables

Function Code	Parameter	Default Setting
00	Master Code	0000
01	Talk Time	90 Seconds
02	Open Interval (Relay 1 and Relay 2)	12 Seconds
03	Lock-out Count	3 Tries
04	Tone or Pulse	Tone
05	Single or Multi System	Single
06	System ID	0 (System 1)
07	Enable or Disable Remote Programming	1 (Enable)
08	Relay 2 Mode (1-4)	1 (Door control)
09	Alarm Telephone Number	Blank (No phone number)
10	Manual Unlock (Relay 1 and Relay 2)	0 Hours
11	Edit Welcome Message display	Welcome to Pach
27	Enable Modem Programming	1 (Enable)
41	Beep when Door /Gate Open by the System	1 (Enable, Unit beeps when gate/door open by the System)

NOTE:

- **Although the EEPROM (memory chip) has been cleared from the factory, you MUST to do Function 50 to clear the EEPROM (memory), before you start the programming.**
- If you are in the programming mode or Select Program mode and you leave the system idle for 30 seconds, the system will return to the "Welcome Screen" for security purposes.
- The system will skip to the next programming field or return to the Welcome Screen if you leave it idle in programming mode for about 30 seconds. Any tenant information you have entered but has not been accepted (by pressing the #key) in the 30 second period, must be reprogrammed.

3.1 * Key

Is used only in local programming to do the following:

- Exit the programming mode.
- Clear the existing program fields such as tenant's name, phone number, and access code.

3.2 # Key

Is used to accept the program.

3.3 Function Code 00 - Change Unit Master Code

Is to change the system Master Code. The default system's Master Code (0000) must be changed for security purposes. The Master code is always 4-digits long.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code (if this is the first attempt to change the 4-digit Master Code, enter “0000”). The display will show:

**SELECT PROGRAM
ENTER: __ PRESS #**

To cancel the programming press “*” key, otherwise proceed to step 2.

Step 2 Enter “00” and press #, the display will show:

**MASTER CODE: 0000
NEW : ____ #ENT**

NOTE: Should your Unit Master Code become lost or forgotten, proceed to step 5.

Step 3 Enter new 4-digit Master Code and press # to accept or “*” to cancel, and the display will show:

**SELECT PROGRAM
ENTER: __ PRESS #**

Step 4 Select another Function Code to program another parameters or database or press “*” to exit the programming mode, the display will show:

**%DATABASE SORTING%
Please Wait**

then

**DIR # USED: XXXX
Please Wait**

XXXX is the number of the tenant directory programmed or used.

NOTE: If you have entered a new Master Code and you decide to cancel it press “*”, the display will show:

**** CODE ERROR
NOTHING CHANGED !**

Ignore the message, and your existing Master Code will remain in the system.

NOTE: Please write the new Master Code in the Worksheet provided at the end of this manual for your future reference.

Step 5 Should your Unit Master Code become lost or forgotten, open the unit's panel door using the key provided and press the “RED” or “GREEN” button inside the AeGIS 9000 unit to display the current Master Code. The display will show:

MASTER CODE: XXXX
NEW : _ _ _ _ #ENT

XXXX is your current Master code.
Proceed to the beginning of step 3.

3.4 Function Code 01 - Change Talk Time

Is to change the length of talk time between the tenant and visitor. The length of talk time can be programmed from 10 seconds to 240 seconds. The talk time timer will start as soon as the phone is off-hook. Within ten seconds before the talk time expires, the system will give you a long warning beep.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 2 Enter Function Code “01” and press # and the display will show:

TALK TIME, 10-240
ENTER: 020 PRESS #

Step 3 Enter the Talk Time value in seconds (10-240 seconds) and press #, the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 4 Select another Function Code to program another parameter or database or press “*” to exit the programming mode, the display will show:

%DATABASE SORTING%
Please Wait

then

DIR # USED: XXXX
Please Wait

XXXX is the number of the tenant directory programmed or used.

3.5 Function Code 02 - Open Interval Relay 1 and Relay 2

Is to change door open interval on relay 1 and relay 2. The door will open according to the door open interval time period you programmed.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter the Function Code “02” and press # and the display will show:

Set which relay?
(1 or 2) : _

Step 3 Enter 1 for relay 1(door 1) or 2 for relay 2 (door 2) and press #, the display will show:

UNLOCK TIME, SEC
ENTER: 12 PRESS #

Step 4 Enter the Open Time value in second (04-99 seconds) and press #. The display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 5 Select another Function Code to program another parameters or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.6 Function Code 03 - Lock-Out Count

Is to change the Lock-Out Count. After specific times of invalid Access Code have been entered into the system, the system will ignore further access code entries for 90 seconds.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code “03” and press # and the display will show:

LOCK-OUT COUNT
ENTER: 3 PRESS #

Step 3 Enter the Lock-Out Count (1-9) and press #. The display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 4 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.7 Function Code 04 - Tone or Pulse

Is to select type of dialing used by the system, either “Tone” or “Pulse”. If you select “Pulse” the system will work on either pulse or tone telephone equipment but if you select tone the system will only work on tone telephone equipment.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

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

Step 2 Enter the Function Code “04” and press # and the display will show:

```
TONE=1 PULSE=0
ENTER:  1  PRESS #
```

Step 3 Enter “0” for Pulse or “1” for Tone, and press #. The display will show:

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

Step 4 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.8 Function Code 05 - Single or Multi Systems

Is to set single or multi-systems. Select 1 for single system or 0 for multi-systems in single telephone line.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

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

Step 2 Enter Function Code “05” and press #, the display will show:

```
SINGLE=1 MULTI=0
ENTER:  1  PRESS #
```

Step 3 Enter “1” if you only have one AeGIS 9000 system installed on a single telephone line or “0” if you have multiple AeGIS 9000 systems installed on a single telephone line. Press # to accept the new entry. The display will show:

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

Step 4 Select another Function Code to program another parameters or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.9 Function Code 06 - System ID

Is to set the systems ID. You only need to use this code if you have more than one AeGIS 9000 installed in single telephone line. A maximum of eight AeGIS 9000 allows in single telephone line. Each unit uses a system number from 1 to 8.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

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

Step 2 Enter Function Code “06” and press #. The display will show:

```
SYSTEM ID      [1-8]
ENTER:  0      PRESS #
```

Step 3 Enter a system number from 1 to 8 and press # to accept the new entry. The display will show:

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

Step 4 Select another Function Code to program another parameters or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.10 Function Code 07 - Enable or Disable Remote Phone Programming

Is to enable or disable Remote Programming. If set to Enable (1), the system will answer remote calls and allow remote programming using a touch tone phone. If set to Disable (0), the system will not answer remote calls and not allow remote programming.

NOTE: The Function Code 07 must also be set to **ENABLE** for Modem Programming (see next section Function Code 27 Modem Programming).

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have

entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

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

Step 2 Enter Function Code "07" and press #, the display will show:

```
REMOTE YES=1 NO=0
ENTER:  1  PRESS #
```

Step 3 Enter "0" to Disable or "1" to Enable and press #. The display will show:

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

Step 4 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.11 Function Code 08 - Relay 2 Mode

Is to set relay 2 mode as

1. **A Door Control:** you can connect a door or a gate to relay 2 input terminal.
2. **A Shunt:** relay 2 will turn "ON" and "OFF" at the same time as relay 1. You may connect an alarm device or light to relay 2 terminal as an indicator that door 1 (connected to relay 1) is unlocked or locked.
3. **An Alarm Timer:** if a door sensor or shock sensor is used, you may connect an alarm or a light to relay 2 as an indicator that door 1 has been forced open or left ajar for over 60 seconds after the unlock time expired as set in Function Code 2.
4. **A CCTV switch.** Relay 2 is set to turn "ON" and "OFF" a camera. See Function Code 43.

See Chapter 5 System's Operations for more detailed explanation.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

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

Step 2 Enter Function Code "08" and press #, the display will show:

```
RELAY 2 MODE (1-4)
ENTER:  1  PRESS #
```

Step 3 Enter "1" as a door control, "2" as a shunt, "3" as an alarm timer or "4" as a CCTV switch and press # to accept. The display will show:

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

Step 4 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.12 Function Code 09 - Alarm Telephone Number

Is used to call and notify the manager in case:

- Door has been forced open.
- Door has been left ajar for over 60 seconds after the unlock time has expired as set in Function Code "02".
- Someone has exceeded the Lock-Out Count as described in Function Code "03".

The AeGIS 9000 will call the number entered if one of the three scenarios above is true.

NOTE: The AeGIS 9000 will not call the number entered if relay 2 is set as an alarm timer (see function code 08).

See Chapter 5 System's Operations for more detail explanation.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code "09" and press #. The display will show:

TELEPHONE NUMBER

Step 3 Enter the telephone number for the system to dial (**up to 11-digit**) and press #. The display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 4 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.13 Function Code 10 - Manual Unlock/Lock Doors

Is to unlock door 1 or door 2 (**if relay 2 is set as a door control**) manually for a specified time period (1 hour- 98 hours) or indefinitely or to re-lock the door either at the expired time or by resetting the timer to 00 HOURS.

WARNING: Do not use Function Code "10" to unlock the door if an AC door strike is used. It may damage the door strike.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter the Function Code "10" and press #. The display will show:

Set which relay
(1 or 2) : _

If relay 2 is set as a door control or

HOURS UNLOCK
ENTER: 00 PRESS#

If relay 2 is set other than as a door control,
only relay 1 or door 1 can be unlocked
manually. Proceed to step 4.

Step 3 Select the relay or door you want to unlock manually (1 or 2), the display will show:

HOURS UNLOCK
ENTER: 00 PRESS#

Step 4 Enter the unlock timer "01" to "98" (1 hour to 98 hours) and press # to accept new entry.

OR

Enter "99" and press # to accept the entry. The door will be unlocked for an indefinite time.

OR

Enter "00" and press # to accept the entry. The door will be locked if the door was in unlock mode. **Repeat step 1 to 4 to unlock relay 2 (door 2) manually**, otherwise proceed to step 5.

Step 5 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.14 Function Code 11 - Edit Welcome Message Display

Is to edit the Welcome Message Display. The welcome screen is a scrolling display, it may be used for apartment's name, business' name, etc. The AeGIS 9000 has a scrolling 48-character LCD message display which is made-up of 3 segments. Each segment is made-up of 16 characters for a total of 48 character locations.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code "11" and press #, the display will show (first segment):

Welcome to Pach'
MESSAGE SEGMENT 1

Step 3 Enter 16-character message into the first segment. You can overwrite the existing message or press "*" to clear it and reenter a 16 characters message. Used keypad correlation on figure 3.1 and 3.2. Press ## to go to the second segment and the display will show (second segment):

s Telephone Acce
MESSAGE SEGMENT 2

Step 4 Enter the next 16-character message into the second segment. You can overwrite the existing message or press "*" to clear it and enter the 16 characters message and press ## to go to the third segment and the display will show (third segment):

ss Control
MESSAGE SEGMENT 3

Step 5 Enter the next 16-character message into the third segment. You can overwrite the existing message or press "*" to clear it and enter the 16 characters message and press # to accept the new entry.

Note: If you want to leave the second or third segment blank press "*" and press # to accept the entry.

The display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 6 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

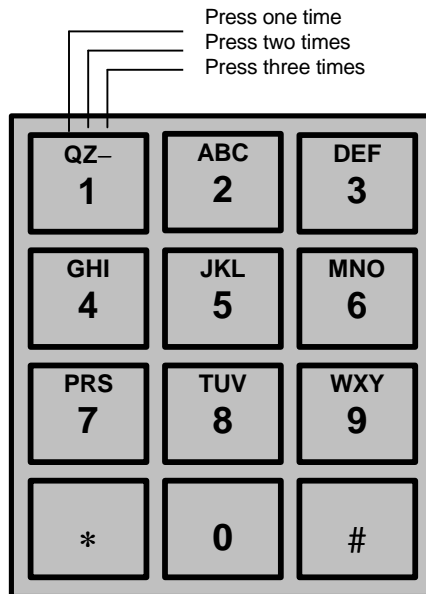


Figure 3.1 Keypad Layout

The correlation between the keypad keys (from 1 through 9) are shown in figure 3.2:

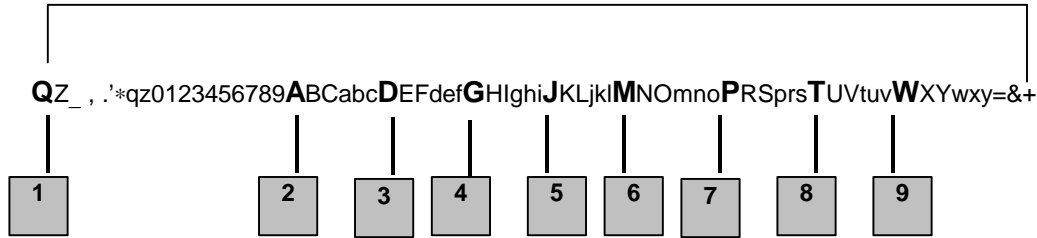


Figure 3.2 Keypad Correlation

The following are special characters used to move the cursor right or left and erase all.

- Press “0” key once to move the cursor to the right.
- Press “8” and “0” key once to move the cursor to the left.
- Press “*” to clear all of the letters or numbers entered.

For example, to enter the name “Pach & CO...1234”

- Press “7” key once to select the letter “P”, then press #.
- Press “2” key four times to select letter “a”, then press #.
- Press “2” key six times to select letter “c”, then press #.
- Press “4” key five times to select letter “h”, then press #.
- Press “1” key three times to select “space”, then press #.
- Press “9” key eight times to select “&”, then press #.
- Press “1” key three times to select “space”, then press #.
- Press “2” key three times to select “C”, then press #.
- Press “6” key three times to select “O”, then press #.
- Press “1” key five times to select “.”, then press #.
- Press “1” key five times to select “.”, then press #.
- Press “1” key five times to select “.”, then press #.
- Press “1” key eleven times to select number “1”, then press #.
- Press “1” key twelve times to select number “2”, then press #.
- Press “1” key thirteen times to select number “3”, then press #.
- Press “1” key fourteen times to select number “4”, then press # # to accept the entry.

NOTE: If you do not press the # key in 30 seconds while you are programming the Welcome Message Display, the system will either take you to the next programming field or exit from the programming. All the data you programmed will not be saved.

3.15 Function Code 12 - Set Time and Date

Is to set system’s time and date. The time must be in military time format. For example: 06:00 AM is 06:00 in military time format and 06:00PM is 18:00 in military time format.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ _ PRESS #

Step 2 Enter Function Code 12 and press #, the display will show:

Current Time
ENTER: 12:00

Your display may not be identical as shown above.

Step 3 Enter the hour and press # and enter the minute and press #, the display will show:

Daylight saving
Time? 1=YES 0=NO

Step 4 Enter "1" for daylight saving a or "0" for no daylight saving, the display will show:

Tue Jul. 07 2000
Correct? 1=Y/ 0=N

Your display may not be identical as shown above.

NOTE: If you do not enter the value in the specify field in 30 seconds the system will either take you to the next programming field or exit from the programming. All the data you programmed will not be saved.

Step 5 Enter "0" if you want to change the current date otherwise press "1" to keep the current date. The display will show:

Enter today's
Date: MMDDYYYYD

Step 6 Enter the current date and day of week and press #.

MM: Month DD: Date YYYY: Year D: Day of the week (see table below)

D	Day of the week	D	Day of the week
1	Monday	5	Friday
2	Tuesday	6	Saturday
3	Wednesday	7	Sunday
4	Thursday		

Table 3.1

The display will show:

Wed Jul 07, 2000
Correct ? 1=Y 0=N

Step 7 Enter 1 and the display is shown below or press 0 and return to step 5.

SELECT PROGRAM
ENTER: __ PRESS #

Step 8 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.16 Function Code 13 - Time Zone

Is used to restrict the user's access codes. Refer to Function code "30" to set restrictive access codes according to the time zones setting. **This Function Code is not valid for model 9750P800 or higher.** You must follow these rules to program the Time Zones:

- A maximum of **nine** programmable time zones (1-9).
- **One** unrestricted (may access anytime) non-programmable time zone (0).
- Begin time must be smaller than end Time.
- Military time format must be used.
- Time Zones are only valid within 24-hour period. If you want to program from Monday 06:00 to Tuesday 06:00, you have to divide the time zone into two: Monday 06:00-24:00 and Tuesday 00:00-06:00.

NOTE: Do not use Time Zone number "0". Time Zone number "0" is unrestricted (may access anytime). You do not need to program Time Zone "0", it is preprogrammed in the system. You can't change Time Zone "0".

3.16.1 Add Time Zone

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code "13" and press #, the display will show:

Time Zone Number
ENTER: _ Press #

Step 3 Enter Time Zone number (1-9) and press #, the display will show:

ADD=1 DELETE=0
ENTER: _ Press #

Step 4 Enter "1" to add a new time zone and the display will show:

Start Time: HH : MM
ENTER: __ : __

Step 5 Enter the start hour in military time and press # and enter the minute and press # and the display will show:

End Time: HH : MM
ENTER: _ _ : _ _

Step 6 Enter the end hour in military time and press # and enter the minute and press # and the display will show:

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

Step 7 Enter day of week as shown on the table 3.2 and press # (for example: if you want to program from Monday-Friday you must enter 12345 or if you want to program Monday-Wednesday you must enter 123).

D	Day of the week	D	Day of the week
1	Monday	5	Friday
2	Tuesday	6	Saturday
3	Wednesday	7	Sunday
4	Thursday		

Table 3.2

The display will show:

Enter another ?
YES=1 NO=0 : _

Step 8 Enter 1 and # (to program another time zone) and return to step 3 or enter 0 and #, the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 9 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.16.2 Delete Existing Time Zone

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 2 Enter Function Code "13" and press #, the display will show:

Time Zone Number
ENTER: _ Press #

Step 3 Enter Time Zone number (1-9) and press #, the display will show:

ADD=1 DELETE=0
ENTER: _ Press #

Step 4 Enter "0" to delete the existing time zone and the display will show:

Enter another ?
YES=1 NO= 0 : _

Step 5 Enter "1" if you want to add a new time zone or to delete another time zone and return to step 3 or enter 0 to exit and the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 6 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.17 Function Code 14 - Holiday Schedule

Is to set holiday schedules. The Function Code 16 (Auto Unlock Schedule) and Function Code 30 (Access Code) will not be activated during the holidays. You can have a maximum of 16 of Holiday Schedules (01-16). **This Function Code is not valid for model 9750P800 or higher.**

Warning: You are responsible to maintain the holiday schedules.

3.17.1 Add Holiday Schedule

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code " 14" and the display will show:

Holiday Number:
ENTER: __ PRESS #

Step 3 Enter a holiday schedule number (01-16), the display will show:

ADD=1 DELETE=0
ENTER: _ PRESS #

Step 4 Enter "1" and press #, the display will show:

Add Holiday MMDD
ENTER: __/ __

Step 5 Enter month and press # and enter date and press #, the display will show:

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

Step 6 Enter "1" to program another holiday schedule number and return to step 3 or enter 0, the display will show:

```
SELECT PROGRAM  
ENTER: __ PRESS #
```

Step 7 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.17.2 Delete Holiday Schedule

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

```
SELECT PROGRAM  
ENTER: __ PRESS #
```

Step 2 Enter Function Code " 14" and the display will show:

```
Holiday Number:  
ENTER: __ PRESS #
```

Step 3 Enter the holiday number you want to delete (01-16), the display will show:

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

Step 4 Enter "0" to delete the holiday number you entered on step 3 and press #, the display will show:

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

Step 5 Enter "1" if you want to delete another holiday schedule and return to step 3 or enter 0, the display will show:

```
SELECT PROGRAM  
ENTER: __ PRESS #
```

Step 6 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.18 Function Code 15 - Auto Unlock Schedule

Is to unlock and lock the door(s) according to the open time and close time programmed. **This Function Code is not valid for model 9750P800 or higher.** If the start time is 07:00 and the close time is 18:00, the door(s) will open at 07:00 in the morning and close at 06:00 in the afternoon. You must follow these rules to program the Auto Unlock Schedules:

- A maximum of **nine** programmable time zones (0-9).
- To open and close both door 1 and door 2 simultaneously, you must program two different Auto Unlock Schedules.
- Auto Unlock is available on relay 2 if relay 2 is programmed as a door control (see Function Code 08).
- Open time must be smaller than Close Time.
- Military time format must be used.
- Auto Unlock Schedules are only valid within 24-hour period. If you want to program from Monday 06:00 to Tuesday 06:00, you have to divide the Schedules into two: Monday 06:00-24:00 and Tuesday 00:00-06:00.

WARNING: If you program holiday schedules (see Function Code 14), the door(s) will not unlock on holiday. You are responsible to maintain the schedules.

3.18.1 Add Auto Unlock Schedule

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code “ 15” and the display will show:

Schedule Number:
ENTER: _ PRESS #

Step 3 Enter the schedule number (0-9) and press #, the display will show:

ADD=1 DELETE=0
ENTER: _ PRESS #

Step 4 Enter “1” and press # (if relay 2 is set as a door control see Function Code 08 for more detail), the display is shown below. If relay 2 is set other than as a door control proceed to step 6:

Which Door ?
ENTER: _ PRESS #

Step 5 Enter “1” for door 1 or “2” for door 2, and press # and the display will show:

On Which Day (s) ?
ENTER: _____

Step 6 Enter day of week according to the table 3.3 (i.e. Monday-Friday, enter 12345) and press #:

D	Day of the week	D	Day of the week
1	Monday	5	Friday
2	Tuesday	6	Saturday
3	Wednesday	7	Sunday
4	Thursday		

Table 3.3

The display will show:

Open Time: HH : MM
ENTER: __ : __

Step 7 Enter the hour and press # and enter the minute and press #, the display will show:

Close Time: HH : MM
ENTER: __ : __

Step 8 Enter the hour and press # and enter the minute and press #, the display will show:

Enter another ?
YES=1 NO=0

Step 9 Enter "1" if you want to program another auto unlock schedule and return to step 3 or enter 0, the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 10 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.18.2 Delete Auto Unlock Schedule

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code " 15" and the display will show:

Schedule Number:
ENTER: _ PRESS #

Step 3 Enter the schedule number (0-9) and press #, the display will show:

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

Step 4 Enter "0" and press #, the display will show:

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

Step 5 Enter 1 and # and return to step 3 or enter 0 and #, the display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 6 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.19 Function Code 16 - Reinitialize Time Zone Schedules

Is to clear the time zone schedules programmed.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 2 Enter Function Code "16" and the display will show:

```
Reinitialize TMZ
1 = YES 0 = NO: _
```

Step 3 Enter 1 and # to reinitialize or 0 and # to cancel, the display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 4 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.20 Function Code 17 - Reinitialize Auto Unlock Schedules

Is to clear the auto unlock schedules programmed.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code “17” and the display will show:

Reinitialize ATS
1 = YES 0 = NO: _

Step 3 Enter 1 and # to reinitialize or 0 and # to cancel and the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 4 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.21 Function Code 18 - Reinitialize Holiday Schedules

Is to clear holiday schedules programmed.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code “16” and the display will show:

Reinitialize TMZ
1 = YES 0 = NO : _

Step 3 Enter 1 and # to reinitialize or 0 and # to cancel and the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 4 Select another Function Code to program another parameters or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.22 Function Code 19 - Reinitialize Events Recording

Is to clear the event recording in the buffer. The buffer is a place to store all events on the system.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code “19” and the display will show:

Reinitialize EVR
1 = YES 0 = NO : _

Step 3 Enter 1 and # to reinitialize or 0 and # to cancel and the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 4 Select another Function Code to program another parameters or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.23 Function Code 20 - New Tenant Code

Is to add a new tenant directory database into the system. There are three different fields that need to be programmed: Directory Code (DIR), Name and Phone Number (PH #).

Directory Code (DIR): A unique (non-duplicating) 2, 3 or 4 digit code assigned for each tenant for identification (Use Function Code 28 to Change Directory Digits. It links to tenant name, phone number and access code. The same number of digit must be used on every tenant’s directory.

WARNING: Do Function Code 28 before programming the new tenant directory codes. If Function Code 28 is selected after the directory codes have been programmed, all the directory codes will be erased.

Name: Tenant’s name is up to 16 characters.

Phone Number: Tenant’s phone number is up to 11-digits.

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

1. The Directory Code can NOT be duplicated.
2. Each Directory Code is considered as one tenant. If you have 100 different Directory Codes, it means you have 100 tenants.
3. The existing Directory Code cannot be changed by another directory code. It can be deleted using Function Code “22”.
4. Delete the unused directory code to avoid running out of memory.
5. The tenant names may be entered in any order. The system will automatically arrange them in alphabetical order.
6. The same Name and Telephone Number can be assigned to different directory numbers.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code “20” and press #, the display will show:

NEW TENANT CODE
ENTER: _ _ _ PRESS #

Step 3 Enter a Directory Code (2, 3 or 4 digit) using the keypad and press # key to accept the entry. The display will show:

TENANT NAME

Proceed to step 4.

If the directory has already existed, the system will beep once and the display will show.

TENANT EXIST
Use Another No.

Repeat step 2 to add another directory or proceed to step 6.

Step 4 Enter the tenant name using the Telephone Entry keypad and press # # to accept the entry. The keypad does not have alphabetical letters, see figure 3.1 and 3.2 on section 3.14 for your reference. The display will show:

TELEPHONE NUMBER

Step 5 Enter the phone number (up to 11-digits) and press # key to accept the entry, the display is shown below. To clear the phone number you have entered press “*” key and reenter the phone number and press # key to accept the entry.

- Some areas require an area code to be entered before the phone number (area code + 7digits phone number).
- If you have to call a number with a different area code, you must enter (1 + area code + 7-digits phone number). Long distance charge may apply.
- If you connect the system to a PBX line, see Function Code “42” to enable PBX.

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 6 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.24 Function Code 21 - Modify Tenant Code

Is to modify the existing tenant' s directory (tenant's name and phone number). You cannot use this function code to change the Tenant Directory number. You MUST know the Tenant Directory code you want to modify.

NOTE: It is extremely important to record the Tenant Directories on your "Tenant Directory Data Worksheet" provided in Chapter 7. Keep all the records in a safe place for your future reference.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code "21" and press #, the display will show:

MODIFY TENANT
ENTER: ___ PRESS #

Step 3 Enter a Directory Code (2, 3 or 4 digit) using the keypad and press # key to accept the entry. The display will show with the preprogrammed tenant name.

TENANT NAME

Proceed to step 4.

If the directory does not exist, the system will beep once and the display will show:

TENANT not EXIST
USE [20] TO ADD

Repeat step 2 to modify another directory or proceed to step 7.

Step 4 To change the tenant name, enter new name or press "*" to clear the existing name and enter the new name (see figure 3.1 and 3.2 for keypad correlation) and press # # to accept new entry and the display is shown below.

To change the tenant's name spelling use the following keys below then change the letter using keypad correlation on figure 3.2, then press # key to accept new entry.

- Press # to enter next tenant name's letter.
- Press "0" key once move the cursor to the right.
- Press "8" and "0" key once move the cursor to the left.
- Press "*" to clear all of the letters or number entered.

The display will show:

TELEPHONE NUMBER

Step 5 Enter the phone number (up to 11-digits) and press # key to accept the entry, the display is shown below. To clear the phone number you have entered press "*" key and reenter the phone number and press # key to accept the entry.

- Some areas require an area code to be entered before the phone number (area code + 7digits phone number).
- If you have to call a number with different area code, you must enter (1 + area code + 7-digits phone number). Long distance charge may apply.
- If you on PBX line, see Function Code “42” to enable PBX.

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 6 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.25 Function Code 22 - Delete Tenant Code

Is to delete the existing tenant’s directory code one by one. Use this function code to free the system’s memory. You **MUST** know the tenant’s directory code you want to delete, see function code “78”.

CAUTION: The Tenant Directory Code can’t be recovered after you have deleted it.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 2 Enter Function Code “22” and press #, the display will show:

DELETE TENANT
ENTER: _ _ _ PRESS #

Step 3 Enter the tenant directory you want to delete and the display will show:

Delete xxxx
Push 5 To Confirm

xxxx is the tenant directory you have entered.

Step 4 Press 5 to confirm, the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

and proceed to step 5.

or “*” to cancel, return to step 2.

If tenant directory does not exist, the system will give one beep and the display will show:

TENANT DOES NOT
EXIST

Return to step 2 to delete another tenant directory or proceed to step 5

Step 5 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.26 Function Code 23 - Clear All Tenants

Is to delete the entire tenant directory codes.

CAUTION: Function Code 23 will delete the entire Tenant's Directory Codes. You cannot recover the Tenant Directory Codes after you have deleted them.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 2 Enter Function Code "23" and press #, the display will show:

CLR ALL TENANTS?
YES=1 NO=0 : _

Step 3 Press 1 and # to delete, the display will show below or press 0 and # to cancel and proceed to step 5.

Del ALL Tenants
Push5 To Confirm

Step 4 Press 5 to confirm and the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 5 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.27 Function Code 24 - Enable or Disable Access Code Expanded Mode

Is to expand the 4 digit Access Code into 6, 7 or 8 digit based on the number of digit selected on Function Code "28". This will add extra security to your access code. The expanded access code is in the format of "Directory Code" + 4-digit Access Code.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 2 Enter Function Code “24” and press #, the display will show:

```
W/DIR=1 W/ODIR=0
ENTER: 0 PRESS#
```

Step 3 Press 1 to combine the Directory + Access Code and press # or press 0 and # to set the access code in 4-digit mode. The display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 4 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.28 Function Code 25 - Ready for RS-232

Is used for local programming using AeGIS 9000 Management software (optional) via an RS-232. The function code is activated the system's RS-232 for temporary.

Warning: The SK9 will not communicate with the AeGIS 9000 temporarily if this function is activated.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 2 Enter Function Code “25” and press #, the display will show:

```
READY for RS232
port command %&
```

Step 3 Now, you are ready to use the system's RS-232 port for local programming. If you leave it idle for 120 seconds, the RS-232 port will be canceled and the display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 4 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.29 Function Code 26 - Enable RS-232

Is to enable the system's RS-232 port permanently. The RS-232 port is used for local programming using optional AeGIS 9000 Management Software.

Warning: Do not enable this function if the AeGIS 9000 is interfaced with an SK9 (satellite keypad).

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code "26" and press #, the display will show:

ENABLE RS232:
0=NO 1=YES: 0

Step 3 Press 0 and # to disable or 1 and # to enable and the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 4 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.30 Function Code 27 - Enable Modem Programming

Is to enable the modem for remote programming using the Management Software. The older version of firmware will only support one protocol (V22) and the newer version of firmware (dated June 4, 1999 or after) will support two protocols (V22 and Bell 212).

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Press Function Code "27" and press #, the display will show:


```
EN_MODEM:
0=NO 1=YES: 0
```

Step 3 Press 0 and # to disable modem and proceed to step 5 or press 1 and # to enable modem and the display will show:

```
Protocol: 1_V22
0=Bell212 : 1
```

Step 4 Press 1 and # for V22 or press 0 and # for Bell212. Most modem will support both protocols but select 1 for V22. If it does not work you may select 0 for Bell212. The display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 4 Select another Function Code to program another parameter or database or press "*" to exit the programming mode wait for **Database Sorting**.

3.31 Function Code 28 - Change Directory Digit

Is to change the directory digit (2, 3 or 4 digit). Do the following function code before you program the tenant database.

WARNING: If you do Function Code 28 after the tenant database has been programmed, all of the database will be deleted.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 2 Enter Function Code "28" and press #, the display will show:

```
DIR DIGITS
ENTER: 3 PRESS #
```

Step 3 Enter the number of digit (default at 3-digit) 2,3 or 4 digit and press #, the display will show:

```
% SORTING DATA
Please Wait ....
```

and the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 4 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.32 Function Code 29 - Alarm Delay

Alarm delay can be programmed from 00-90 seconds. The system can report an alarm instantly if set for 00 second or a delay up to 90 seconds before reporting an alarm or triggering relay 2 if relay 2 is set for mode 2 on Function Code 08.

3.33 Function Code 30 - New Access Code

Is to program a new access code. **Relay 2 is not applicable for model 9750P800 or higher.** You must follow the rules below.

- Access Code must be 4-digit.
- Directory number of digit is set according to Function Code "28".
- Tenants name is up to 16 characters.
- Tenants directory and name do not have to be associated with tenant directory and name programmed on Function Code "20".
- Each access code can have up to three restricted (3) separate zones or one unrestricted zone (may access anytime).

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code "30" and press #, the display will show:

NEW ACCESS CODE
ENTER: ____ PRESS #

Step 3 Enter the 4-digit personal access code and press #, the display will show:

X-digit DIR CODE
CODE: ____

X is the number of directory digit set on Function Code "28".

Step 4 Enter the Directory Code (2, 3 or 4 digit, depend on the setting on Function Code "28") and press #, the display will show:

Door 1 or Door 2
3 for both: 0

Proceed to step 6 if Function Code "08" is not set as a door control (mode 1).

Step 5 Enter "1" for door 1, "2" for door 2, or "3" for both doors and press #, the display will show:

TimeZone section
3 MAX [1-3]: _

Step 6 Enter the time zone section (1-3) and press #. You can select up to three time zone sections. If this is the first time zone section, enter 1 and press #, the display will show:

Which Time Zone
[0-9] : _

Step 7 Enter the time zone number (0-9) according to the time zones programmed on Function Code "13" and press #. The time zone 0 is unrestricted and time zone 1-9 is restricted.

NOTE: Time zone number 0 is unrestricted (may access any time) and time zone number 1-9 is restricted. Do not combine the unrestricted and restricted zone.

The display will show:

Another section
(1=YES, 0= NO): _

Step 8 Enter 1 and # and return to step 6 or enter 0 and # and proceed to step 10, the display will show:

CODE HOLDER NAME
_

Step 9 Enter code holder name up to 16 characters and press #. Refer to figure 3.1 and 3.2.

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 10 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.34 Function Code 31 - Modify Access Code

Is used to modify an existing access code.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 2 Enter Function Code “31” and press #, the display will show:

Access Code to
modify: _ _ _ _

Step 3 Enter the 4-digit personal access code to be modified and press #, and the display will show:

X-digit DIR CODE
CODE: XXXX

X is the number of directory digits.
XXXX is the existing directory code (2, 3 or 4 digit).

If the access code does not exist, the system will give you a long beep and the display will show:

No such a CODE !
USE [30] TO ADD

Return to step 2 to modify another access code or proceed to step 10.

Step 4 Enter a new directory code and # or press # if you want to keep the existing directory code, the display will show:

Door 1 or Door 2
3 for both: 0

Proceed to step 6 if Function Code “08” is not set as a door control (mode 1).

Step 5 Enter “1” for door 1, “2” for door 2 or “3” for both doors and the display will show:

TimeZone section
3 MAX [1-3]: _

Step 6 Enter the time zone section (1-3) you want to modify and press #, the display will show:

Which Time Zone
[0-9] : _

Step 7 Enter the time zone number (0-9) according to the time zones programmed on Function Code “13” and press #. If you want to keep the existing time zone, press #. The time zone 0 is unrestricted and time zone 1-9 is restricted.

NOTE: Time zone number 0 is unrestricted (may access any time) and time zone number 1-9 is restricted. Do not combine the unrestricted and restricted zone.

The display will show:

Another section
(1=YES, 0= NO): _

Step 8 Enter 1 and # and return to step 6 or enter 0 and # and proceed to step 10, the display will show:

CODE HOLDER NAME
_

Step 9 Enter code holder name up to 16 characters and press # or press # if you want to keep the existing name, the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 10 Select another Function Code to program another parameters or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.35 Function Code 32 - Delete Access Code

Is used to delete the existing access code one at a time. You must know the 4-digit access code number you want to delete.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: _ _ PRESS #

Step 2 Enter function Code "32" and press #, the display will show:

DELETE Access
Code: _ _ _ _ Press #

Step 3 Enter the access code you want to delete (2, 3 or 3 digit) and press #. The display will show:

DELETE XXXX?
Push 5 to Confirm

XXXX is the 4-digit access code you entered.

Step 4 Press 5 to confirm and if the access code exists, the display will show:

XXXX, Now is Gone
Deletion Done!

XXXX is the access code you want to delete.

And then the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

and proceed to step 5. If the access code does not exist, the system will give you a long beep and the display will show:

ACCESS CODE XXXX
DOES NOT EXIST

XXXX is the access code you want to delete but it does not exist on the system's database.

Step 5 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.36 Function Code 33 - Clear All Access Codes

Is to clear all the existing access codes.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold "0" and press # and release both keys. The "Welcome Screen" will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the "Welcome Screen" will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter function Code "33" and press #, the display will show:

CLR ALL Codes ?
YES=1 NO=0 : _

Step 3 Press 1 and # to clear all codes, the display is shown below or press 0 and # to cancel and proceed to step 5.

Del ALL Codes !
Push 5 to Confirm

Step 4 Press 5 to confirm and the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 6 Select another Function Code to program another parameter or database or press "*" to exit the programming mode and wait for **Database Sorting**.

3.37 Function Code 40 - Master Code Mask

If the Master Code is lost, it can be displayed by pressing the RED button inside the unit. This condition is true if Mask is disabled. If Mask is enabled and you lost the Master Code, you cannot display your existing Master Code. You have to return the unit to the factory. This feature is useful if you want extra security for your AeGIS 9000 series.

WARNING: Enabling Function Code “40” will prevent you from recovering your Master Code in case you have lost it. You can’t program the system without the Master Code. Do not use this function code unless you are absolutely able to keep your Master Code. **If you are an installing dealer, do not enable this function code without notifying the user.**

Your existing Master Code cannot be recovered if Function Code 40 is enabled. You **MUST** return the unit to the factory or purchase a new memory chip(s).

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code “40” and press # and the display will show:

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

Step 3 Press 1 and # to enable or 0 and # to disable Master Code Mask and the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 4 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.38 Function Code 41 - Open Door Beep

Is to enable or disable the beep sound on the AeGIS 9000 when the door or gate is opened. This function is useful if you install the system indoor where you do not want to hear the beep sound from the system when the door is opened.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code “41” and press # and the display will show:

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

Step 3 Press 1 and # to enable door beep sound or 0 and # to disable, the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 4 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.39 Function Code 42 - Enable or Disable PBX

The AeGIS 9000 Series can be connected behind a PBX line. The AeGIS can call the extension or call an outside line. You must enter the PBX number using Function Code 42 if you want the AeGIS 9000 to call an outside line. You may enter up to a 5-digit PBX number. Most PBX lines require only 1-digit which is number “9” to get an outside line.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code “42” and press #, the display will show:

PBX Subscriber
0=NO, 1=YES : 0

Step 3 Press 1 and # to enable PBX the display is shown below or 0 and # to disable and proceed to step 5.

PBX Area No.
_ _ _ _

Step 4 Enter the PBX number to get the outside line and the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 5 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.40 Function Code 43 – Open Door 1 and Door 2 Number

By default setting, the tenants must press “9” or “8” to unlock door 1 or door 2 from their touch-tone phone. **These numbers can be changed if the system is set on touch-tone dialing. NOTE: If pulse dialing is used do not change the number.** You may select any number 0-9. **Do not select the same number on open door 1 and door 2 number.** If you set Function Code 08 (relay 2 mode as CCTV switch) do not select number 6 and 7 for open door 1 and door 2 number, because the CCTV switch default setting is “6” to turn on the relay and “7” to turn it off. You may change the CCTV switch number to turn the relay on and off, then you may use “6” or “7” for Open Door 1 and Door 2.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

SELECT PROGRAM
ENTER: __ PRESS #

Step 2 Enter Function Code “43” and press #, the display will show:

Open Door1No(0-9)
ENTER: __ PRESS #

If the same Open door is selected as door 2, the display will show:

This No is used
Please try again

Return to step 2. **If Function code “08” is selected as Mode 4**, proceed to step 4:

Step 3 Enter the Open Door number and press #, the display will show:

Open Door2No(0-9)
ENTER: __ PRESS #

If the same open door number is selected as door 1, the display will show:

This No is used
Please try again

Return to step 3.

Step 4 The display will show:

OpenCCTV No(0-9)
ENTER: __ PRESS #

Enter the number and press # (do not select the same number as open door 1 and Close CCTV number).

Step 5 The display will show:

```
CloseCCTVNo (0-9)
ENTER:  _ _  PRESS #
```

Enter the number and press # (do not select the same number as open door 1 and Open CCTV number).

3.41 Function Code 46 - Display System Information

The system version will display the model and the release date of the firmware. For example, the first line on the LCD shows VER: A0100R0125 and the second line shows May.17, 1999. It means you have AeGIS 9100R125 as a model and the firmware release date is May 17, 1999.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

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

Step 2 Enter Function Code “46” and press #, the display will show:

```
VER: AxxxxZyyy
MMM. DD, YYYY
```

Xxxx = a maximum number of tenants.
Z = R (restricted) or P (permanent)
yyy = a maximum number of access codes.
MMM = the month.
DD = the date.
YYY = the year.

And then it will show:

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

Step 3 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.42 Function Code 50 - Clear the EEPROM Memory

Is to clear the system’s database and the entire configuration will return to factory default. Consult our technical department before you use this code.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 2 Enter Function Code “50” and the display will show:

```
0/1 CLR eeprom . .
N / Y : 0 # ENT * EX
```

Step 3 Enter 1 and press # to clear the memory to factory default and the display is shown below or 0 and # to cancel and proceed to step 5.

```
INITIALIZATION . .
EEPROM Testing . .
```

Step 4 Wait for a few minutes, the more tenants on the system the longer it takes to erase the memory. The display may show the Scrolling Well Come Screen or may show as below. If it is shown as below, recycle the power and the display will show the Scrolling Well Come Screen.

```
INITIALIZATION . .
Keypad Testing . .
```

Step 5 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.43 Function Code 78 - View Directory and Name

You can view the tenant’s directory and name. This function is very useful if you want to delete the tenant but you do not remember the directory number.

Step 1 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 2 Enter Function Code “78” and press #, and the first name in alphabetical order will show on the display.

Step 3 Press “3” to view name from A to Z or “6” to view name from Z to A.

Step 4 Press # to view the directory. Proceed to step 3 to view the directory for different name or press * and the display will show:

```
SELECT PROGRAM
ENTER: __ PRESS #
```

Step 5 Select another Function Code to program another parameter or database or press “*” to exit the programming mode and wait for **Database Sorting**.

3.44 Function Code 91 - Exit Programming Mode via Telephone

Is used to exit the programming mode remotely via a telephone.

Chapter 4

TELEPHONE REMOTE PROGRAMMING

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

- Enable the system Auto Answer (see Function Code 07-Remote Phone Programming Enable or Disable).
- Disable Function Code "27" (Modem Programming).
- It is recommended not to share the AeGIS 9000 phone line with any answering devices such as a fax machine or modem.
- TOUCH TONE phone must be used.
- Not all Function Codes can be programmed remotely via a Touch Tone Phone. The instructions below are all the Function Codes that can be programmed by a Touch Tone Phone.

WARNING: Remote Phone Programming may not be accurate because errors may occur during the programming such as pressing an incorrect key, static on the phone line, etc.

AeGIS 9000 System cannot be used while you are in Remote Phone programming mode.

The programming method of Remote Phone programming is identical as local programming, except logging into a programming mode (see the instructions on Chapter 3. Programming). The Telephone Remote Programming does not support all of the Function Codes. The Function Codes supported by the Telephone Remote Programming will be explained in this chapter

4.1 Log into the Programming Mode

You must follow the procedures below accurately according to your application. The procedures are divided into two: **Single System in Single Telephone Line** and **Multi-Systems in Single Telephone Line**.

4.1.1 Single System in Single Telephone Line

Step 1 Call into the AeGIS 9000 using a touch tone phone. When the system answer you will hear:
ONE SHORT BEEP: Door is opened.
TWO SHORT BEEPS: Door is closed.

Press # key

Step 2 Press your valid Master Code.

- If your Master Code is accepted, you will hear TWO SHORT BEEPS and you are in the programming mode.
- If your Master Code is rejected, the system will disconnect.

NOTE: You should begin the system programming as soon as you are in the programming mode. If you leave the system idle, the connection will be disconnected in 30 seconds.

Step 3 Follow the next programming sections below to program the tenants' database and parameters.

4.1.2 Multi-System in Single Telephone Line

Step 1 Call into the AeGIS 9000 using a touch tone phone. When the system answers you will hear:

ONE SHORT BEEP: Door is opened.
TWO SHORT BEEPS: Door is closed.
ONE LONG BEEP: Combination of Closed and open.

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

Step 3 Press your valid Master Code.

- If your Master Code is accepted, you will hear TWO SHORT BEEPS and you are in the programming mode.
- If your Master Code is rejected, the system will disconnect.

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

4.2 Change Unit Master Code (Function Code 00)

Step 1 To log into the programming mode, see section 4.1. If you have logged into the programming mode, proceed to step 2.

Step 2 Enter Function Code "00" and press #, you will hear ONE SHORT BEEP.

Step 3 Enter the new Master Code and press # and you will hear TWO SHORT BEEPS.

Step 4 Select another Function Code to program another parameter or otherwise enter Function Code "91" and press # to disconnect the call, you will hear ONE SHORT BEEP and TWO SHORT BEEPS.

4.3 Change Talk Time (Function Code 01)

Step 1 To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.

Step 2 Enter Function Code "01" and press #, you will hear ONE SHORT BEEP.

Step 3 Enter the talk time (10-240 seconds) and press # and you will hear TWO SHORT BEEPS.

Step 4 Select another Function Code to program another parameter or tenant's directory, otherwise enter Function Code "91" and press # to disconnect the call.

4.4 Open Interval Relay 1 and 2 (Function Code 02)

Step 1 To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.

Step 2 Enter Function Code "02" and press #, you will hear ONE SHORT BEEP.

Step 3 Press 1 for relay 1 (door 1) or 2 for relay 2 (door 2) and press #, you will hear ONE SHORT BEEP.

Step 4 Enter the door open interval (04-99 seconds) and press # and you will TWO SHORT BEEPS. Repeat step 2 for relay 2 (door 2) or proceed to step 5..

Step 5 Select another Function Code to program another parameter or tenant's directory, otherwise enter Function Code "91" and press # to disconnect the call.

4.5 Lock Out Count (Function Code 03)

- Step 1** To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.
- Step 2** Enter Function Code “03” and press #, you will hear ONE SHORT BEEP.
- Step 3** Enter the door open interval (1-9) and press # and you will hear TWO SHORT BEEPS.
- Step 4** Select another Function Code to program another parameter or tenant’s directory, otherwise enter Function Code “91” and press # to disconnect the call.

4.6 Tone or Pulse (Function Code 04)

- Step 1** To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.
- Step 2** Enter Function Code “04” and press #, you will hear ONE SHORT BEEP.
- Step 3** Enter “0” for Pulse or “1” for Tone and press # and you will hear TWO SHORT BEEPS.
- Step 4** Select another Function Code to program another parameter or tenant’s directory, otherwise enter Function Code “91” and press # to disconnect the call.

4.7 Relay 2 Mode (Function Code 08)

- Step 1** To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.
- Step 2** Enter Function Code “08” and press #, you will hear ONE SHORT BEEP.
- Step 3** Enter relay mode 1-4 and press # and you will hear TWO SHORT BEEPS.
- Step 4** Select another Function Code to program another parameter or tenant’s directory, otherwise enter Function Code “91” and press # to disconnect the call.

4.8 Manual Unlock/Lock Doors (Function Code 10)

- Step 1** To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.
- Step 2** Enter Function Code “10” and press #, you will hear ONE SHORT BEEP.
- Step 3** Enter relay 1 or 2 (door 1 or 2) and press # and you will hear ONE SHORT BEEPS.
- Step 4** Enter “01” to “98” hours to unlock the door or “99” to unlock the door indefinitely or “00” to lock the door and press #, you will hear TWO SHORT BEEPS. Return to step 2 if you want to unlock or lock relay 2 (door 2).
- Step 5** Select another Function Code to program another parameter or tenant’s directory, otherwise enter Function Code “91” and press # to disconnect the call.

4.9 New Tenant Code (Function Code 20)

- Step 1** To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.
- Step 2** Enter Function Code “20” and press #, you will hear ONE SHORT BEEP.
- Step 3** Enter the 2, 3, or 4 digit directory number (the number of digit is set using Function Code “28”) and press # and you will hear ONE SHORT BEEP. If the directory has already existed, you will hear TWO LONG BEEPS.
- Step 4** Enter the tenant name (**press # after you enter each character, no beep will be heard**) and press # # after you enter the last character and you will hear ONE SHORT BEEP.
- Step 5** Enter the tenant phone number and press # and you will hear TWO SHORT BEEPS.
- Step 6** Select another Function Code to program another parameter or tenant’s directory, otherwise enter Function Code “91” and press # to disconnect the call.

4.10 Delete a Tenant (Function Code 22)

- Step 1** To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.
- Step 2** Enter Function Code “22” and press #, you will hear ONE SHORT BEEP.
- Step 3** Enter the 2, 3, or 4 digit directory number (the number of digit is set using Function Code “28”) to delete and press # and you will hear FIVE SHORT BEEPS if the. If the directory does not exist, you will hear TWO SHORT BEEPS.
- Step 4** Select another Function Code to program another parameter or tenant’s directory, otherwise enter Function Code “91” and press # to disconnect the call.

4.11 Access Code Expanded Mode (Function Code 24)

- Step 1** To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.
- Step 2** Enter Function Code “24” and press #, you will hear ONE SHORT BEEP.
- Step 3** Enter 1 (expand the access code with directory code) or 0 (not to expand the access code) and press #, you will hear TWO SHORT BEEPS.
- Step 4** Select another Function Code to program another parameter or tenant’s directory, otherwise enter Function Code “91” and press # to disconnect the call.

4.12 Enable Modem Programming (Function Code 27)

- Step 1** To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.
- Step 2** Enter Function Code “27” and press #, you will hear ONE SHORT BEEP.
- Step 3** Enter 1 and press #, you will hear TWO SHORT BEEPS.

WARNING: You can enable the Modem Programming but you cannot disable it via a Touch Tone Phone. You MUST disable Modem Programming at the unit (local programming).

Step 4 Select another Function Code to program another parameter or tenant's directory, otherwise enter Function Code "91" and press # to disconnect the call.

4.13 Master Code Mask (Function Code 40)

Step 1 To log into the programming mode, see section 4.1 Log into the Programming Mode. If you have logged into the programming mode, proceed to step 2.

Step 2 Enter Function Code "40" and press #, you will hear ONE SHORT BEEP.

Step 3 Enter 1 (Enable Mask) or 0 (Disable Mask) and press #, you will hear TWO SHORT BEEPS.

WARNING: Enable Mask is not recommended, unless if you need extra security for your Master Code. If the Master Code is lost and Mask is enable, you must call the factory for a new memory chip(s), nominal charge may apply and you have to reprogram the database.

Step 4 Select another Function Code to program another parameter or tenant's directory, otherwise enter Function Code "91" and press # to disconnect the call.

Chapter 5

SYSTEM'S OPERATIONS

The AeGIS 9000 Series have a built in electronic directory, which is located at the front panel of the equipment. The tenant's apartment numbers, suite numbers and phone number are not visible on the electronic directory for security purposes. This chapter explains the AeGIS 9000 Series operations.

5.1 How to View Tenant's Name

Two ways to view the tenant's name:

1. Press "3" to view tenant's name from A to Z.
2. Press "6" to view tenant's name from Z to A.
3. If you scroll past the tenants name, press "6" to go back.

5.2 How to Initiate a Call from the AeGIS 9000 System.

Two ways to initiate a call from the AeGIS 9000 to a tenant:

1. Using the Scrolling Electronic Directory (Press "3" or "6" to scroll the tenant's name).
2. A Direct Call is only used if the visitor knows the tenant's directory number.

5.2.1 Scrolling Electronic Directory

Step 1 Press "3" or "6" to scroll the tenant's name, when the tenant's name you are intending to call is visible on the display, press # to initiate the call. You will hear a ring back and the display will show:

XXXXXXXXXXXXXXXXXX
WAIT . . . DIALING

XXXXXXXXXXXXXXXXXX= Tenant's name up to 16 characters will show on the LCD display.
And it will show:

[CALLING] PRESS
ANY KEY TO ABORT

Step 2 To cancel the call, press "Any key" otherwise wait for tenant to answer your call. The AeGIS system's keypad will be activated upon connection, you may press a voice mail extension number.

Step 3 Tenant needs to press "9" to release relay 1 (door 1) or "8" to release relay 2 (door 2) from his or her touch-tone phone to open the door or gate or hang up if you do not want to open the door or gate. The open door number can be changed via programming, see section 3.40 (Open door 1 and door 2 number).

NOTE: Tenant needs to press "9" to open door 1 or "8" to open door 2 remotely from his or her telephone by the default setting. See section 3.40 to change the Open door 1 and door 2 number.

If the tenant hangs up the call without opening the gate or door remotely and the user does not press the "*" to hang up at the AeGIS 9000, the AeGIS will be on hook according to the talk time programmed on Function Code 01 (Talk Time).

5.2.2 The Direct Call

The Direct Call is only used if you know the tenant's directory number. The tenant's directory number can be associated with apartment number, suite number, etc.

Step 1 Press #, wait for a dial tone, the display will show:

DIR. CODE: _ _ _ _
X-digit Number

X is the directory digit (2, 3 or 4 digit, depends on the number of digit programmed on Function Code "28").

Step 2 Enter the 2, 3 or 4 digits directory number, the system will initiate the call. As an example if the tenant directory number is "101", press # wait for a dial tone and enter 101, the system will initiate the call. You will hear a ring back and the display will show:

DIR. CODE: XXXX
WAIT DIALING . . .

XXXX is the number of digits you entered.
and the display will show:

[CALLING] PRESS
ANY KEY TO ABORT

Step 4 Press "Any key" to cancel the call or wait for tenant to answer your call. The AeGIS system's keypad will be activated upon connection, you may press a voice mail extension number.

Step 5 Tenant needs to press "9" to release relay 1 (door 1) or "8" to release relay 2 (door 2) from his or her touch-tone phone to open the door or gate or hang up if you do not want to open the door or gate. **See section 3.40 to change the open door 1 and door 2 number.**

5.3 How to Answer the AeGIS 9000 Calls

Answering the AeGIS 9000 incoming call is the same as answering a regular phone call except you may have to grant access to your visitor to enter the building. Your phones will ring as with any normal incoming call. Follow the steps below to answer the AeGIS's calls:

Step 1 Answer the AeGIS call.

Step 2 Talk to the visitor. Press "9" to open door 1 or "8" to open the door 2 or hang up if you do not want to give the visitor a grant access. See section 3.40 to change the open door 1 and door 2 number.

NOTE: ONE LONG BEEP will be heard 10 seconds before the Talk Time expires.
Press # after you hear a long beep to extend the talk time for another cycle.

5.4 How to Call into the AeGIS System.

The AeGIS 9000 will accept an incoming call from tenant and tenant can talk to his or her visitor. Function Code 07 (Enable or Disable Remote Phone Programming) must be set to "1" (enable). The feature is very useful if at the moment you are not available to answer the visitor call and you can call into the system in your as soon as you are available.

Note: This feature is not available if you have Multi-Systems on a Single Telephone Line.

Step 1 Call the AeGIS system (you must know the AeGIS phone number). You will hear ONE SHORT BEEP if your call is connected with the AeGIS system.

Step 2 Press "*" to talk to the visitor.

Step 3 Tenant needs to press "9" to release relay 1 (door 1) or "8" to release relay 2 (door 2) from his or her touch-tone phone to open the door or gate or hang up if you do not want to open the door or gate.

5.5 How to Use the Personal Access Code.

The personal Access Code is used to open the door or gate from the AeGIS 9000 System without using a key. It is not mandatory for the manager to provide a personal access code for each tenant.

Step 1 Press and hold "0" key and press "*" and release both keys, the "Welcome Screen" will stop scrolling. If the "Welcome Screen" does not stop scrolling, repeat this step again.

Step 2 Enter your 4-digit Personal Access Code number or if you have Function Code "24" enabled for expanded access code Enter Directory Code (2, 3, or 4 digit) + the 4-digit access code , if your access code is valid the gate will open. The system will lock for 90 seconds after you enter an invalid access code for specific times (see Function Code 03).

5.6 How to Program the System to Alarm Telephone Number on Invalid Access Code.

This feature is very useful and provides extra security by sending an alarm to the manager or authorized person to notify invalid access codes have been entered into the system for a specific number of times programmed on Function Code "03". The system will call the phone number programmed on Function Code "09" according to the alarm delay programmed on Function Code 29. The receiving end will hear continuous beeps, and the display will show:

**ALARM
ACTIVATED!**

If relay 2 on Function Code "08" is set for mode 3 (Alarm Timer), this feature will not work. If no phone number has been programmed on Function Code "09", the system will not call but will lock for 90 seconds before you can enter another access code.

5.7 Relay 2 Mode Operations

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.

5.7.1 As a 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).

5.7.2 As 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 the alarm or buzzer will go off if door 1 is opened.

5.7.3 As 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.

5.7.4 As 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".

5.8 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 only available for door 1. 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**. The table shows how the door sensor or shock sensor operates according to Relay 2 Mode (Function Code "08").

RELAY 2 MODE (FUNCTION CODE 08)	DOOR SENSOR OPERATION
MODE 1 (Relay 2 as a Door Control)	<p>The system will make double beeps every 60 seconds if :</p> <ul style="list-style-type: none"> ▪ Door 1 is still opened after the open interval is set on Function Code 02 on relay 1 has expired. ▪ Or door 1 is forced open. <p>If Function Code 09 is programmed to call a phone number, the system will</p> <ul style="list-style-type: none"> ▪ Make double beeps every 60 seconds. ▪ Call to the number programmed on Function Code 09 every 60 seconds. The authorized person will hear

	<p>continuous beeps when the phone is answered. The system's LCD will show:</p> <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> → ALARM ← ACTIVATED! </div> <p>The scenarios above are valid until the problems are corrected.</p>
<p>MODE 2 (Relay 2 as a Shunt)</p>	<p>The system will make double beeps every 60 seconds if :</p> <ul style="list-style-type: none"> ▪ 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. <p>If Function Code 09 is programmed to call a phone number, the system will</p> <ul style="list-style-type: none"> ▪ 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 system's LCD will show: <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> → ALARM ← ACTIVATED! </div> <p>The scenarios above are valid until the problems are corrected.</p>
<p>MODE 3 (Relay 2 as an Alarm Timer)</p>	<p>The system will make double beeps every 60 seconds if :</p> <ul style="list-style-type: none"> ▪ 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. <p>Relay 2 will be activated and the system's LCD display will show:</p> <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> → ALARM ← ACTIVATED! </div> <p>You may connect an emergency light , an alarm device or a buzzer on relay 2.</p> <p>The scenarios above are valid until the problems are corrected.</p>
<p>MODE 4 (Relay 2 as a CCTV Switch)</p>	<p>The system will make double beeps every 60 seconds if :</p> <ul style="list-style-type: none"> ▪ 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. <p>If Function Code 09 is programmed to call a phone number, the system will</p> <ul style="list-style-type: none"> ▪ 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 system's LCD will show: <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> → ALARM ← ACTIVATED! </div> <p>The scenarios above are valid until the problems are corrected.</p>

5.9 How to Adjust the Speaker Volume

The speaker volume and microphone are factory preset. See figure 2.1 to locate the speaker volume adjustment pot. Turn the speaker volume adjustment pot counter-clockwise to increase or clockwise to decrease the speaker volume. If you hear “feedback” when you close the cabinet’s door, decrease the speaker volume.

5.10 How to Adjust the LCD Display

Turn the LCD Adjustment Pot clockwise to increase or counter-clockwise to decrease the intensity. See figure 2.1 to locate the LCD adjustment pot.

5.11 How to Adjust the Pulse Sensitivity

The Pulse sensitivity is factory preset. Enhance the Pulse sensitivity by turning the Pot counter-clockwise. See figure 2.1 to locate the Pulse Sensitivity adjustment pot. 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), turn the pot counter clockwise, until the LED turns OFF.

5.12 How to Check the Number of Tenants in the System

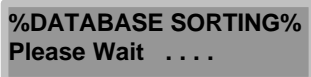
You cannot program the tenant’s directory more than the system capacity. An accurate tenant’s record is essential. You must delete any unused tenant’s directory to free the system’s memory. You may check the total number of tenant in the system locally (using the unit’s keypad or optional AeGIS 9000 Management Software via an RS-232) or remotely (via AeGIS 9000 Management Software). 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 Proceed to step 2 if you are in **Select Program** mode, otherwise press and hold “0” and press # and release both keys. The “Welcome Screen” will stop scrolling. Enter your valid 4-digit Master Code. If you have entered an invalid master code, the “Welcome Screen” will return to a scrolling mode, otherwise the display will show:



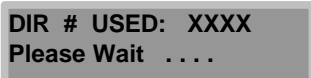
```
SELECT PROGRAM
ENTER: _ _ PRESS #
```

Step 2 Press * and select another Function Code to program another parameter or database or press “*” to exit the programming mode, the display will show:



```
%DATABASE SORTING%
Please Wait . . . .
```

then



```
DIR # USED: XXXX
Please Wait . . . .
```

XXXX is the number of the tenant directory programmed or used.

Chapter 6

TROUBLE SHOOTING GUIDE

SOLUTIONS and SUGESTIONS	
AUDIO PROBLEMS	
No audio when key is pressed.	<ul style="list-style-type: none"> ▪ The AeGIS 9000 does not provide a tone when key is pressed, but the ribbon cable's red line must be facing down and connecting on pin 1 on the LCD's terminal pin connector on the board.
No dial tone when the # key is pressed.	<ul style="list-style-type: none"> ▪ 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 24 Ohms.
The visitor can't hear the tenant from the system but the tenant can hear the visitor.	<ul style="list-style-type: none"> ▪ Check the speaker and microphone connection on terminal marked CN4 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 ▪ Press the # key as soon as you hear a dial tone, tap your finger into the microphone and you should hear the feedback from the speaker.
The tenant can't hear the visitor talking but the visitor can hear the tenant.	<ul style="list-style-type: none"> ▪ 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 brown and black wires, make sure they are soldered into the microphone. ▪ Turn the system's power "OFF" and disconnect the speaker connector from the board. Set your meter to Ohm and use 50 Ohm scale or higher. Put the two probes into the speaker (+) and (-) (polarity not important) and the meter should read about 24 Ohms.
DISPLAY PROBLEMS	
The Liquid Crystal Display (LCD) shows question marks (????)	<ul style="list-style-type: none"> ▪ Turn the unit power "OFF" and "ON" ▪ Erase the memory chip (EEPROM) using Function Code 50 in section 3.42 page. If you have trouble going to the programming mode, press the square red button and press # (you

	<p>may still see the question marks on the display, ignore them and enter Function code 50 followed by # and press 1 and #.</p> <div style="border: 1px solid black; padding: 5px; background-color: #e0e0e0;"> <p>Warning: Using Function Code 50 will erase the tenants' entire database directory.</p> </div>
<p>The Liquid Crystal Display (LCD) is blank, no display at all.</p>	<ul style="list-style-type: none"> ▪ The power LED must be "ON" (LED2 marked on the board). ▪ The Power Switch's toggle must be in the left position ("ON"). ▪ Check the fuse (3 Amp 250 Volt). ▪ Measure the voltage on AC1 and AC2 (set your voltmeter to AC and put the probes on AC1 and AC2), it should read within 12VAC-13.8VAC. ▪ The LCD's ribbon cable has red dots along the side. The red dots must be facing down and connecting to pin 1 on the LCD's terminal pin connector. ▪ The LCD's ribbon cable sits tight on the LCD's terminal pin connector on the board. ▪ Adjust the LCD's intensity, see Chapter 5, on section 5.9. ▪ Turn the system's power "OFF", wait for 15 seconds and turn it "ON". ▪ If the sunlight hits directly into the system's the LCD, block the sunlight. If the LCD is readable after you block the sunlight, you may have to install the system at a different location or you can purchase the 7SHLD (sun sunshield). Note: the sunshield may not solve your problem if the sunlight hits horizontally into the LCD display. Direct sunlight may collect heat into the system and it may damage the system 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).
<p>The LCD shows eight squares or underlines.</p>	<ul style="list-style-type: none"> ▪ The LCD's ribbon cable has red dots along the side. The red dots must be facing down. ▪ The LCD's ribbon cable sits tight on the terminal pin connector on the board. ▪ The LCD's ribbon cable is connected into the LCD's terminal pin connector and the red dots of the ribbon should be on the left side when the cabinet's door is opened. The bottom row is connected into the LCD. ▪ 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. ▪ If the display only fails when the outside temperature is very cold (wintertime), you may need to install a heater (AHP-5).

COMMUNICATION PROBLEMS

<p>The visitor can't place a call to a tenant or tenants.</p>	<ul style="list-style-type: none"> ▪ Check to see 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.
<p>The visitor hears a radio station on the AeGIS system while talking to a tenant.</p>	<ul style="list-style-type: none"> ▪ Check to see 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 on the board at 5 pins terminal) from the board. If the problem still exists, install a Modular RFI Filter.
<p>Both the visitor and tenant hear static while they are talking</p>	<ul style="list-style-type: none"> ▪ Check to see 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.
<p>The sound keeps going out while the tenant and visitor are talking.</p>	<ul style="list-style-type: none"> ▪ The AeGIS 9000 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.
<p>The remote touch tone programming does not work.</p>	<ul style="list-style-type: none"> ▪ Check Function Code "07", it must be enable. ▪ Check Function Code "27", it must be disabled. ▪ Check the AeGIS 9000 phone line. ▪ Check to make sure the AeGIS is not in used.
<p>The AeGIS 9000 does not answer modem call.</p>	<ul style="list-style-type: none"> ▪ Check Function Code "07" and "27", it must be enable. ▪ Check the modem board, make sure it connects properly. ▪ Check the AeGIS 9000 phone line. ▪ Check the modem on your Personal Computer (PC), make sure the phone line is connected into the modem and it is active. ▪ If the AeGIS is being used, it will not answer a modem call. ▪ If the AeGIS is in Sorting Database Mode, it will not answer a modem call. ▪ Incompatibility between your PC's modem and AeGIS's modem.

GATE PROBLEMS

<p>The gate or door does not open when the tenant presses number “9” or “8”.</p>	<ul style="list-style-type: none"> ▪ Make sure there is power to the gate or door strike. ▪ 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: <ul style="list-style-type: none"> ▪ 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: <ul style="list-style-type: none"> ▪ 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.
<p>The gate or door does not open when the tenant presses number “9” or “8” but it opens using the personal access code.</p>	<ul style="list-style-type: none"> ▪ Try to call a few different tenants. If the problem persists, erase the system’s memory to default (use function code 50). <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>Warning: Function Code 50 will erase all tenants’ database directory</p> </div>

KEYPAD PROBLEMS

<p>All or some of the keypad’s keys do not work.</p>	<ul style="list-style-type: none"> ▪ The keypad’s ribbon cable has red dots along the side, the red dots must be facing down and connecting on pin 1 on the terminal pin connector. ▪ Turn the power “OFF” and disconnect the keypad’s ribbon cable from the board and
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	<p>reconnect it and turn the power "ON".</p> <ul style="list-style-type: none">▪ Press the square red button switch on the board, and system will display the master code, then press 0-9 key on the keypad and every single key pressed will show on the display. NOTE: Do not press the # or "*", doing so will delete or replace your current Master Code.
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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.

Chapter 7

PARAMETERS WORKSHEET

You must keep accurate system's parameters and tenant's records all time. The tenant's directory only can be deleted if you have the directory number for the particular tenant. Unused tenant's directory will take space in the memory and they will cause your system out of memory.

NOTE: Make a photocopy of the worksheet provided for future used before you fill out the form.

System's Parameter Worksheet

Parameter	Function Code	Default Setting	Change to
Master Code	00	0000	
Talk Time	01	090 Seconds	
Open Interval Relay 1 and 2	02	12 Seconds	
Lock Out Count	03	3 Tries	
Unit Dialing	04	Tone	
Single or Multi System	05	Single	
Remote Phone Programming	07	Enable	
Directory Digit	28	3 digit	
Open door beep	41	Enable	

Time Zone Schedules

Time zone time must be in military format, i.e. 16:00 (4:00 PM).

Enter Valid Days: 1=Monday, 2=Tuesday, 3=Wednesday, 4= Thursday, 5= Friday, 6= Saturday, 7= Sunday

Time Zone # 0 is no restrictions, may access anytime.

Time Zone #1 Begin Time: End Time: Valid Days:	Time Zone #2 Begin Time: End Time: Valid Days:	Time Zone #3 Begin Time: End Time: Valid Days:
Time Zone #4 Begin Time: End Time: Valid Days:	Time Zone #5 Begin Time: End Time: Valid Days:	Time Zone #6 Begin Time: End Time: Valid Days:
Time Zone #7 Begin Time: End Time: Valid Days:	Time Zone #8 Begin Time: End Time: Valid Days:	Time Zone #9 Begin Time: End Time: Valid Days:

Holiday Schedules

Date is in __ / __ format, i.e. 07/04.

Holiday #01 Date: Description:	Holiday #02 Date: Description:	Holiday #03 Date: Description:
Holiday #04 Date: Description:	Holiday #05 Date: Description:	Holiday #06 Date: Description:
Holiday #07 Date: Description:	Holiday #08 Date: Description:	Holiday #09 Date: Description:
Holiday #10 Date: Description:	Holiday #11 Date: Description:	Holiday #12 Date: Description:
Holiday #13 Date: Description:	Holiday #14 Date: Description:	

Auto Unlock Schedules

Time zone time must be in military format, i.e. 16:00 (4:00 PM).

Enter Valid Days: 1=Monday, 2=Tuesday, 3=Wednesday, 4= Thursday, 5= Friday, 6= Saturday, 7= Sunday

Auto Unlock # 0 Begin: End: Valid Days:	Auto Unlock # 1 Begin: End: Valid Days:	Auto Unlock # 2 Begin: End: Valid Days:
Auto Unlock # 3 Begin: End: Valid Days:	Auto Unlock # 4 Begin: End: Valid Days:	Auto Unlock # 5 Begin: End: Valid Days:
Auto Unlock # 6 Begin: End: Valid Days:	Auto Unlock # 7 Begin: End: Valid Days:	Auto Unlock # 8 Begin: End: Valid Days:
Auto Unlock # 9 Begin: End: Valid Days:		

GENERAL FCC REQUIREMENTS

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

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

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

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

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

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

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

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