

**ADEMCO VISTA SERIES**  
**VISTA-21iP / VISTA-21iPSIA**  
**Security Systems**

**Programming Guide**

## TO ENTER PROGRAMMING MODE (using an alpha keypad connected to the control):

- A. POWER UP, then press [\*] and [#] at the same time, within 50 seconds of powering up (this method must be used if \*98 was used to exit program mode). **OR**
- B. Initially, key: Installer Code (4 + 1 + 1 + 2) plus 8 + 0 + 0.

### PROGRAMMING MODE COMMANDS

Task	Command/Explanation
Go to a Data Field	Press [*] + [Field Number], followed by the required entry.
Entering Data	When the desired field number appears, simply make the required entry. When the last entry for a field is entered, the keypad beeps three times and automatically displays the next data field in sequence. If the number of digits that you need to enter in a data field is less than the maximum digits available (for example, the phone number fields *41, *42), enter the desired data, then press [*] to end the entry. The next data field number is displayed.
Review a Data Field	Press [#] + [Field Number]. Data will be displayed for that field number. No changes will be accepted in this mode.
Deleting an Entry	Press [*] + [Field Number] + [*]. (Applies only to fields *40 thru *46, *94, and pager fields)
Initialize Download ID	Press *96. Initializes download ID and subscriber account number.
Reset Factory Defaults	Press *97. Sets all data fields to original factory default values.
Zone Programming	Press *56. Zone characteristics, report codes, alpha descriptors, and serial numbers for 5800 RF transmitters.
Function Key Programming	Press *57. Unlabeled keypad keys (known as ABCD keys) for special functions
Zone Programming (Expert Mode)	Press *58. Same options as *56 mode, but with fewer prompts. Intended for those familiar with this type of programming, otherwise *56 mode is recommended.
Output Device Mapping	Press *79. Assign module addresses and map individual relays/powerline carrier devices
Output Programming	Press *80. 4229 or 4204 Relay modules, Powerline Carrier devices, or on-board triggers
Zone List Programming	Press *81. Zone Lists for relay/powerline carrier activation, chime zones, pager zones, etc.
Alpha Programming	Press *82. Zone alpha descriptors
IP/GSM Programming	Press *29. For programming the IP/GSM options.
Exit Program Mode with installer code lockout	Press *98. Exits programming mode and <i>prevents</i> re-entry by: Installer Code + 8 + 0 + 0. To reenter programming mode, the system must be powered down, then powered up. Then use method A above. See field *88 for other *98 Program mode lockout options.
Exit Program Mode	Press *99. Exits programming mode and <i>allows</i> re-entry by: Installer Code + 8 + 0 + 0 or method A above.
Scheduling Mode	Enter code + [#] + 64. Create schedules to automate various system functions.
Site-Initiated Download	Installer code + [#] + 1 (perform while system is disarmed and in normal mode)

### SPECIAL MESSAGES

**OC** = OPEN CIRCUIT (no communication between Keypad and Control).

**EE** or **ENTRY ERROR** = ERROR (invalid field number entered; re-enter valid field number).

After powering up, **AC**, **dl** (disabled) or **Busy Standby** and **NOT READY** will be displayed after approximately 4 seconds. This will revert to a "**Ready**" message in approximately 1 minute, which allows PIRS, etc. to stabilize. You can bypass this delay by pressing [#] + [0].

If **E4** or **E8** appears, more zones than the expansion units can handle have been programmed. The display will clear after you correct the programming.

### AVS QUICK PROGRAMMING COMMANDS (for AAV sessions using the AVS system)

For controls with the following firmware revision levels, these commands automatically configure the control for AVS operation. VISTA-15P = version 6.0 or higher; VISTA-20P = version 7.0 or higher

- **installer code + [#] + 03**: enable AVS operation
- **installer code + [#] + 04**: enable AVS operation and enable panel sounds on the AVST speaker
- **installer code + [#] + 05**: remove all programming options set by [#] + 03 quick command
- **installer code + [#] + 06**: remove all programming options set by [#] + 04 quick command

Refer to the AVS SYSTEM ENABLE and QUICK PROGRAMMING COMMANDS section for details on the specific options that are set with each command, depending on the control used.

To select the AAV session communication path (phone line/communication device), see field \*55 Dynamic Signaling Priority. To enable AAV operation, use \*91 Options field (option 4).

**IMPORTANT:** The Real-Time Clock must be set before the end of the installation. See procedure in the Setting the Real-Time Clock section of this manual.



**\*49 Split/Dual Reporting** [0]

0 = Standard/backup reporting only (all to primary)

<b>Primary Phone No.</b>	<b>2nd Phone No.</b>
1 = Alarms, Restore, Cancel	Others
2 = All except Open/Close, Test	Open/Close, Test
3 = Alarms, Restore, Cancel	All
4 = All except Open/Close, Test	All
5 = All	All

**\*50 Burglary Dialer Delay** [2,0]

**Delay Time:** Delay Time **V21iPSIA** Delay Disable

0 = no delay **UL: must be "0"**

1 = 15 seconds; 2 = 30 seconds; 3 = 45 seconds

SIA Guidelines: delay must be minimum of 15 seconds

**V21iPSIA:**

**Delay Time:** 1 = 15 seconds; 2 = 30 seconds; 3 = 45 seconds

**Delay Disable:**

0 = use delay set in entry 1

1 = dial delay disabled for zones listed in zone list 6 (use zone list 6 to enter those zones that require dial delay to be disabled; these zones ignore the setting in entry 1)

**UL:** Dial delay plus entry delay must not exceed one minute; use zone list 6 to disable dial delay from appropriate zones, if necessary.

**\*53 SESCOA/Radionics Select** [0]

0 = Radionics (0-9, B-F); enter "0" for all non-SESCOA formats

1 = SESCOA (0-9 only reporting)

**\*54 Dynamic Signaling Delay** [0]

Select delay from 0 to 225 secs, in 15-sec increments.

0 = no delay (both signals sent); 1 = 15 secs; 2 = 30 secs, etc.

NOTE: If \*55 is set to "0," use min. 30 sec to avoid redundant IP report. However, this value may need to be adjusted (ex. 45 secs) depending on the reporting environment.

For UL Burglar Alarm installations with Line Security, must be "0"

**\*55 Dynamic Signaling Priority / AAV Enable** [0]

**AAV Enable**

0 = Primary Dialer first/ using AAV via phone line

1 = IP/GSM module first / not using AAV

For UL Commercial Burglary installations that use a DACT and IP/GSM, this field must be "0".

**\*56, \*57, \*58 Menu Modes**

These are Menu Mode commands, not data fields, for Zone Programming, Function Key Programming, and Expert Mode Zone Programming respectively. See page 2 and respective sections later in this document.

**TO PROGRAM SYSTEM STATUS, & RESTORE REPORT CODES (\*59 thru \*68, \*70 thru \*76, and \*89):**

**For 3+1 or 4+1 Standard Format:** Enter a code in the *first* box: 1-9, #+10 for 0, #+11 for B, #+12 for C, #+13 for D, #+14 for E, #+15 for F.

A 0 (not #+10) in the *first* box will disable a report. A 0 (not #+10) in the *second* box will result in automatic advance to the next field.

**For Expanded or 4+2 Format:** Enter codes in *both* boxes (1st and 2nd digits) for 1-9, 0, or B-F, as described above.

A 0 (not #+10) in the *second* box will eliminate the expanded message for that report. A 0 (not #+10) in *both* boxes will disable the report.

**For Ademco Contact ID® Reporting:** Enter any digit (other than 0) in the *first* box, to enable zone to report (entries in the *second* boxes are ignored).

A 0 (not #+10) in the *first* box disables the report.

**UL:** see installation instructions for requirements

**SYSTEM STATUS REPORT CODES (\*59-\* 68)**

**\*59 Exit Error Alarm Report Code** [0]

See above for entries. **V21iPSIA: [1] Always enabled.**

**\*60 Trouble Report Code** [10]

**\*61 Bypass Report Code** [00]

**\*62 AC Loss Report Code** [10]

**\*63 Low Bat Report Code** [10]

**\*64 Test Report Code** [00]

Use Scheduling mode to set periodic test reports, or use the following key commands:

installer code +[#] + [0] + 0 = test report sent every 24 hours

installer code +[#] + [0] + 1 = test report sent once per week

installer code +[#] + [0] + 2 = test report sent every 28 day

Each mode sets schedule 32 to the stated repeat option; first test report sent 12 hours after command.

**\*65 Open Report Code** [0,0,0]

Part. 1 Part. 2 Common

**\*66 Arm Away/Stay Rpt Code**

[0,0,0,0,0,0]

Away Stay Away Stay Away Stay

Part. 1 Part. 2 Common

**\*67 RF Trans. Low Bat Report Code** [00]

**UL:** must be enabled if wireless devices are used

**\*68 Cancel Report Code** [00]

**V21iPSIA: [10] Report enabled.**

**\*69 Recent Closing Report Code** [11]

**V21iPSIA: Always enabled.**

Field does not apply to other controls.

**RESTORE REPORT CODES (\*70 – \*76)**

**\*70 Alarm Restore Rpt Code** [0]

**\*71 Trouble Restore Rpt Code** [00]

**\*72 Bypass Restore Rpt Code** [00]

**\*73 AC Restore Rpt Code** [00]

**\*74 Low Bat Restore Rpt Code** [00]

**\*75 RF Trans. Lo Bat Rst Rpt Code** [00]

**UL:** must be enabled if wireless devices are used

**\*76 Test Restore Rpt Code** [00]

**OUTPUT AND SYSTEM SETUP (\*77 – \*93)**

**\*77 Daylight Saving Time** [3][11]

**Start/End Month**

0 = Disabled

1-12 = January-September (1 = Jan, 2 = Feb, etc)

#+10 = October; #+11 = November; #+12 = December

**\*78 Daylight Saving Time** [2][1]

**Start/End Weekend**

0 = disabled; 1 = first; 2 = second; 3 = third; 4 = fourth;

5 = last; 6 = next to last; 7 = third to last

**\*79, \*80, \*81, \*82 Menu Modes**

These are Menu Mode commands, not data fields, for Output Device Mapping, Output Programming, Zone List Programming, and Alpha Programming respectively. See page 2 and their respective sections in the Installation and Setup Guide for procedures.

**\*84 Auto Stay Arm** [3]

0 = no; 1 = partition 1 only; 2 = partition 2 only; 3 = both partitions

**\*85 Cross Zone Timer** [0]

**This option not for use in UL installations.**

(assign cross zones on zone list 4, using \*81 Menu mode)

0 = 15 seconds	6 = 2-1/2 min	#+12 = 8 min
1 = 30 seconds	7 = 3 min	#+13 = 10 min
2 = 45 seconds	8 = 4 min	#+14 = 12 min
3 = 60 seconds	9 = 5 min	#+15 = 15 min
4 = 90 seconds	#+10 = 6 min	
5 = 2 minutes	#+11 = 7 min	

**NOTE:** Cross zoning takes effect only after Exit Delay expires.

**\*86 Cancel Verify Keypad Display** [1]

0 = no "alarm canceled" display

1 = display "Alarm Canceled" when system is disarmed after an alarm has occurred. (To clear the "ALARM CANCELED" display, the user must enter the security code + OFF again.)

**\*87 Misc. Fault Delay Time** [0]

(used with Configurable Zone Types "digit 6")

0 = 15 seconds	6 = 2-1/2 min	#+12 = 8 min
1 = 30 seconds	7 = 3 min	#+13 = 10 min
2 = 45 seconds	8 = 4 min	#+14 = 12 min
3 = 60 seconds	9 = 5 min	#+15 = 15 min
4 = 90 seconds	#+10 = 6 min	
5 = 2 minutes	#+11 = 7 min	

UL: may only be used on non-burglar alarm/ non-fire alarm zones when used in fire and/or UL burglar alarm installation

**\*88 Program Mode Lockout Options** [0]

0 = standard \*98 installer code lockout (reentry only by [\*] + [#] within 50 seconds after power up)

1 = lockout [\*] + [#] reentry after \*98 exit (reenter via installer code or downloader only)

2 = not used

3 = lockout local programming after \*98 exit (reenter by downloader only)

**\*89 Event Log Full Report Code** [00]

See box above field \*59 for report code entries.

**\*90 Event Log Enables** [3]

**NOTE:** System messages are logged when any non-zero entry is made.

0 = None

1 = Alarm/Alarm Restore

2 = Trouble/Trouble Restore

4 = Bypass/Bypass Restore

8 = Open/Close. *Example:* To select "Alarm/Alarm Restore", and "Open/Close", enter 9 (1 + 8); To select all, enter #15.

**\*91 Option Selection** [8, 0]

**Options:** 0 = None Options **V21iPSIA**

1 = Bell Supervision Processing Call Wait Disable

4 = AAV UL: must use ADEMCU UVCM module

8 = Exit Delay Restart/Reset UL: must be disabled

#+12 = AAV and Exit Delay Restart/Reset

SIA Guidelines: Exit Delay should be enabled.

**V21iPSIA:**

**Options:** Same as listed above.

**Call Waiting Disable:**

0 = call waiting not used

1 = call waiting disable digits (\*70) entered in field \*40; (when selected, the system dials the entry in field \*40 only on alternate dial attempts; this allows proper dialing in the event call waiting service is later canceled by the user).

**\*92 Phone Line Monitor Enable** [0,0]

UL: see Inst. Instructions for requirements 1 2

**Entry 1:** 0 = disabled, 1-15 = 1 min - 15 min (#+10 = 10 min; #+11 = 11 min; #+12 = 12 min; #+13 = 13 min; #+14 = 14 min; #+15 = 15 min)

**Entry 2:**

0 = Keypad display when line is faulted

1 = Keypad display plus keypad trouble sound

2 = Same as "1", plus programmed output device STARTS. If either partition is armed, external sounder activates also.

**NOTE:** If "2" selected, Output Device must either be programmed to be STOPPED in field \*80 or STOPPED by Code + # + 8 + output number.

**\*93 Reports In Armed Period** [1,0]

**Per Zone (Swinger Suppression)** Restrict **V21iPSIA**

**Restrict Report Pairs:** Report Pairs Unlimited

0 = Unlimited Reports Reports Enable

1 = 1 report pair

2 = 2 report pairs SIA Guidelines: Must be set for option 1 or 2.

**V21iPSIA:**

**Restrict Report Pairs:** 1 = 1 report pair; 2 = 2 report pairs

**Unlimited Reports Enable:**

0 = restrict reports to the setting in entry 1

1 = unlimited reports for zones listed in zone list 7; (use zone list 7 to enter those zones that require unlimited reporting; these zones ignore the setting in entry 1)

**DOWNLOAD INFORMATION (\*94, \*95)**

**\*94 Download Phone No.**

Enter up to 20 digits, 0-9; #+11 for '\*'; #+12 for '#'; #+13 for a 2-second pause. Do not fill unused spaces. If fewer than 20 digits, exit field by pressing \*. To clear entries from field, press \*94\*.

UL: downloading may be performed only if a technician is at the site. Up/downloading via the Internet has not been evaluated by UL.

**\*95 Ring Count For Downloading** [15]

**NOTE:** Do not enter "0" if using 4286 Phone Module.

0 = Disable Station Initiated Download;

1-14 = number of rings (1-9, # +10 =10, # +11 =11, # +12 =12, # +13 =13, # +14 =14);

15 = answering machine defeat (# +15 =15).

**\*96 \*97 Initialize/Reset Defaults**

This is a command, not a data field. See page 2.

**\*98 \*99 Exit Commands**

This is a command, not a data field. See page 2.

**PAGER OPTIONS (\*160- \*172)**

**\*160 Pager 1 Phone No.**

Enter up to 20 digits. 0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-sec pause

**\*161 Pager 1 Characters**

Enter the optional prefix characters, up to 16 digits.

0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*162 Pager 1 Report Options** [0,0,0]

P1 P2 common

For each partition, select from the following options:

0 = no reports sent

1 = Opens/closes all users

4 = All alarms and troubles

5 = All alarms / troubles, and opens/closes for all users

12 = Alarms / troubles for zones entered in zone list 9

13 = Alarms / troubles for zones entered in zone list 9, and opens/closes for all users

**\*163 Pager 2 Phone No.**

Enter up to 20 digits. 0-9; #+11 = 'Q'; #+12 = '#'; #+13 = 2-sec pause

**\*164 Pager 2 Characters**

Enter the optional prefix characters, up to 16 digits.

0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*165 Pager 2 Report Options** [0,0,0]

P1 P2 common

See field \*162 for reporting options. Select for each partition (use zone list 10 if using options 12 or 13).

**\*166 Pager 3 Phone No.**

Enter up to 20 digits. 0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-sec pause

**\*167 Pager 3 Characters**

Enter the optional prefix characters, up to 16 digits.

0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*168 Pager 3 Report Options** [0,0,0]

P1 P2 common

See field \*162 for reporting options. Select for each partition (use zone list 11 if using options 12 or 13).

**\*169 Pager 4 Phone No.**

Enter up to 20 digits. 0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-sec pause

## \*170 Pager 4 Characters

Enter the optional prefix characters, up to 16 digits.  
0-9; #+11 = \*; #+12 = #; #+13 = 2-second pause.

## \*171 Pager 4 Report Options

 [0,0,0]   

P1 P2 common

See field \*162 for reporting options. Select for each partition (use zone list 12 if using options 12 or 13).

## \*172 Pager Delay Option For Alarms

 [3] 

0 = none; 1 = 1 minute; 2 = 2 minutes; 3 = 3 minutes  
This delay is for ALL pagers in the system.

## MISCELLANEOUS SYSTEM FIELDS (\*174-\*181)

### \*174 Clean Me Reporting Options

 [0] 

(for ESL smoke detectors)

0 = disable; 1 = Clean Me signal reports;

**NOTE:** If Clean Me is enabled, you must enter "3" in field \*56 programming for zone 1 response time.

### \*177 Device Duration 1, 2

 [0]  [0]  

(used in \*80 Menu mode-Device Actions 5/6)

0 = 15 seconds	6 = 2-1/2 min	#+11 = 7 min
1 = 30 seconds	7 = 3 min	#+12 = 8 min
2 = 45 seconds	8 = 4 min	#+13 = 10 min
3 = 60 seconds	9 = 5 min	#+14 = 12 min
4 = 90 seconds	#+10 = 6 min	#+15 = 15 min
5 = 2 minutes		

1 2

### \*181 50/60 Hertz AC Operation

 [0] 

0 = 60 Hz; 1 = 50 Hz

## CONFIGURABLE ZONE TYPE OPTIONS (\*182-\*185)

(see Configurable Zone Type Worksheet on page 7)

### \*182 Configurable Zone Type 90

1

Enter the appropriate value for each entry, 1-10, based on the charts provided on the next page. Each entry is the sum of the values of its selected options

(0-9, #+10=10, #+11=11, #+12=12, #+13=13, #+14=14, #+15=15).

**UL:** Do not configure zones as a fire alarm or UL burglar alarm zone.

### \*183 Zone Type 90 Report Codes

**IMPORTANT:** Use existing Contact ID® codes, if appropriate, or define unique codes in CID code range 750-789. See important note in installation instructions.

90 ALARM ID: XXX  
TROUBLE ID: XXX

Enter the desired 3-digit Contact ID® report codes for alarms and troubles occurring on zones assigned to this zone type. Enter the codes sequentially (all 6 digits). When entering digits, [#] moves cursor back, [\*] moves forward.

**NOTE:** Zone alarm report codes (prompt in \*56 Menu mode) and trouble report code (\*60) and relevant restore codes (\*70, \*71) must be enabled in order for the configurable zone type codes to be reported.

Press [\*] when done to continue.

### \*184 Configurable Zone Type 91

1

See \*182 for entries. Press [\*] when done to continue.

**UL:** Do not configure zones as a fire alarm or UL burglar alarm zone.

### \*185 Zone Type 91 Report Codes

**IMPORTANT:** Use existing Contact ID® codes, if appropriate, or define unique codes in CID code range 750-789. See important note in installation instructions.

91 ALARM ID: XXX  
TROUBLE ID: XXX

See \*183 for entries. Press [\*] when done to continue.

## KEYPAD OPTIONS \*189-\*196

### KEYPAD NOTES:

- Options for keypad 1, address 16 are set by the factory and cannot be changed.
- Each keypad must be assigned a unique address. Keypads programmed with the same address will give unpredictable results.
- If using Remote Services (IP/GSM feature), one of the keypad addresses may be used for limited Remote Services features, though a physical keypad is not installed. See \*29 Menu Mode section for enabling Remote Services.

### \*189 Touch Screen Device

#### (AUI) Enable [1] [1]

AUI 1 AUI 2 AUI 3 AUI 4

System supports up to four touch screen style keypads (e.g., Symphony Advanced User Interface, and 6270 Touch Screen Keypad).

**AUI Compatibility Note:** To ensure proper AUI device operation, use AUI devices with the following rev levels: 6270 series use version 1.0.9 or higher; 8132/8142 (Symphony) series use version 1.1.175 or higher.

Touch Screen (AUI) device 1: Must set AUI device address to 1

Touch Screen (AUI) device 2: Must set AUI device address to 2

Touch Screen (AUI) device 3: Must set AUI device address to 5

Touch Screen (AUI) device 4: Must set AUI device address to 6

Enter each touch screen keypad's home partition

0 = disable; 1 = partition 1; 2 = partition 2; 3 = partition 3 (common)

**NOTES:** 1. Use of touch screen style keypads does not affect the number of standard keypads supported.

- If using Remote Services (IP/GSM feature), one of the touch screen (AUI) addresses may be used for enhanced Remote Services feature set, though a physical touch screen is not installed. See \*29 Menu Mode section for enabling Remote Services.

### \*190 Keypad 2 Device Address 17

 [0]  [0]  

Partition: Enter partition where:

Part. Sound

0 = keypad disabled; 1-3 = part. no. (3 = com)

Sound:

0 = no suppression

1 = suppress arm/disarm and E/E beeps

2 = Suppress chime beeps only

3 = suppress arm/disarm, E/E, and chime beeps

### \*191 Keypad 3 Device Address 18

 [0]  [0]  

See field \*190 for entries.

Partition Sound

### \*192 Keypad 4 Device Address 19

 [0]  [0]  

See field \*190 for entries.

Partition Sound

### \*193 Keypad 5 Device Address 20

 [0]  [0]  

See field \*190 for entries.

Partition Sound

### \*194 Keypad 6 Device Address 21

 [0]  [0]  

See field \*190 for entries.

Partition Sound

### \*195 Keypad 7 Device Address 22

 [0]  [0]  

See field \*190 for entries.

Partition Sound

### \*196 Keypad 8 Device Address 23

 [0]  [0]  

See field \*190 for entries.

Partition Sound

### \*197 Exit Time Display Interval

 [0] 

0 = no display; 1-5 = seconds between display refresh

**NOTE:** If enabled and using only 2-digit fixed-word keypads (e.g., 6150RF), do not set exit delay time greater than 96 seconds. See Inst. Instr. for explanation.

**TOUCH SCREEN DEVICE NOTE:** If using more than one touch screen device (e.g., 6270, Symphony) with the system, leave field \*197 Exit Time Display Interval set to the default value "0." The 6270 automatically displays remaining exit time in one-second increments.

### \*198 Display Partition Number

 [0] 

(for Alpha Display Keypads)

0 = no; 1 = yes (partition no. appears on Alpha Display)

### \*199 ECP Fail Display

 [0] 

0 = 3-digit display ("1" + device address)

1 = 2-digit fixed-display as "91"

## Configurable Zone Types Worksheets

Configurable zone types 90 and 91 can be programmed via downloader software or from a keypad using data fields\*182-\*185. Configurable zone types 92 and 93 can only be programmed using the downloader software.

Programming Configurable Zone Type options involves making 10 entries in data field \*182 for zone type 90 and field \*184 for zone type 91, where each entry represents the sum of the values of the various options shown in the tables below. Use fields \*183 and \*185 to program Contact ID report codes for these zone types.

ENTRY 1 (See note 5 for RF zones)			ENTRY 2 (See note 5 for RF zones)	
Response when system disarmed and zone is:			Auto Restore	Vent Zone
Intact EOL <i>RF zone normal</i>	Open <i>RF zone N/A</i>	Shorted <i>RF zn off-normal</i>		
0 = normal 1 = alarm 2 = trouble 3 = fault	0 = normal 4 = alarm 8 = trouble 12 = fault	0 = normal 1 = alarm 2 = trouble 3 = fault see note 6	0 = no 4 = yes	0 = no 8 = yes
Entry 1 = EOL + Open			Entry 2 = Short + auto restore + vent zone	

ENTRY 3 (See note 5 for RF zones)			ENTRY 4 (See note 5 for RF zones)	
Response when armed STAY and zone is:			Byp. when disarmed	Byp. when armed
Intact EOL <i>RF zone normal</i>	Open <i>RF zone N/A</i>	Shorted <i>RF zn off-normal</i>		
0 = normal 1 = alarm 2 = trouble 3 = fault	0 = normal 4 = alarm 8 = trouble 12 = fault	0 = normal 1 = alarm 2 = trouble 3 = fault see note 6	0 = no 4 = yes	0 = no 8 = yes
Entry 3 = EOL + Open			Entry 4 = Short + byp. disarmed + byp. armed	

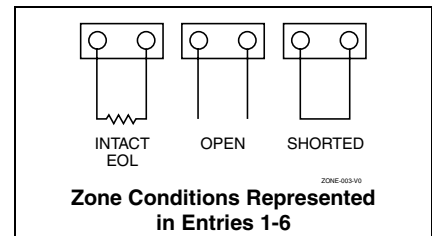
ENTRY 5 (See note 5 for RF zones)			ENTRY 6 (See note 5 for RF zones)	
Response when armed AWAY and zone is:			Dial Delay (see field *50)	Fault Delay (see field *87)
Intact EOL <i>RF zone normal</i>	Open <i>RF zone N/A</i>	Shorted <i>RF zn off-normal</i>		
0 = normal 1 = alarm 2 = trouble 3 = fault	0 = normal 4 = alarm 8 = trouble 12 = fault	0 = normal 1 = alarm 2 = trouble 3 = fault see note 6	0 = no 4 = use delay	0 = no 8 = use delay see note 1
Entry 5 = EOL + Open			Entry 6 = Short + dial delay + fault delay	

ENTRY 7		ENTRY 8		
Display Faults	Power Reset/ Verification	Use Entry Delay 1/2	Use Exit Delay	Respond as Interior Type
0 = show alarms when armed & disarmed 1 = don't show alarms when armed (show alarms, trbles, faults when disarmed) 3 = never show any alarms, trbles, faults	0 = no 4 = power reset after fault (by code + OFF) 12 = verification (see zone type 16)	0 = no 1 = delay 1 2 = delay 2	0 = no 4 = use exit delay	0 = no 8 = yes see note 2
Entry 7 = fault display + power reset/verification		Entry 8 = entry delay 1/entry delay 2 + exit delay + interior zone type		

ENTRY 9			ENTRY 10	
Alarm Sounds	Use Bell Timeout	Respond as Fire Zone	Trouble Sounds	Chime when Chime Mode On
0 = none 1 = steady keypad 2 = steady bell and keypad 3 = pulsing bell and keypad	0 = no 4 = yes see fields *32, *33	0 = no 8 = yes see zone type 09; see note 4	0 = none 1 = periodic beep 2 = trouble beeps	0 = no 4 = yes
Entry 9 = alarm sounds + bell timeout + fire zone			Entry 10 = trouble sounds + chime	

Entries for Fields *182 and *184		
Entry	Zone Type 90 (field *182)	Zone Type 91 (field *184)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

**To calculate the value for each entry:**  
Simply add the values of the selected options in each of the entry's columns (one option per column). For example, to program Entry 2 for "alarm response to short," "auto restore on," but not a "vent zone," enter 5 ("1" for alarm short + "4" for auto restore yes + "0" for vent zone no).



### NOTES:

- Do not use the "fault delay" option with a configurable zone type if it is set for an entry or exit delay, otherwise unpredictable results may occur.
- To create an interior type zone, select "respond as interior zone type" (entry 8, interior type = yes), and set zone response to "fault" in entries 3-4 to ensure fault displays; do not set as "normal," "alarm," or "trouble."
- Do not set fire zones to respond as a "fault" (entries 1-6), otherwise faults will not display unless the [\*] key is pressed.
- 4219/4229 modules must use EOLRs or unpredictable results may occur.
- RF Zones: The "open" option in entries 1, 3, and 5 is not applicable for RF zones. Use the "intact EOL" option for normal RF zone conditions and "shorted" for off-normal RF zone conditions.
- Zone-Doubling/Double-Balanced: A short on either zone of a zone-doubled pair or on a double-balanced zone causes a tamper condition.
  - For double-balanced zones, this entry must be "0."
  - For zone-doubled zones, **both** zones of the doubled pair must be assigned the same response to a short.

## \*56 Zone Programming Menu Mode

(press \*56 while in Program mode)

The Zone Programming Worksheet is on page 18.

For each of the following prompts, make the desired entry, followed by the [\*] key to accept the entry. Refer to the Installation and Setup Guide for detailed explanations for each prompt.

### SET TO CONFIRM?

0 = no; 1 = yes (See XMIT TO CONFIRM prompt later in this section.) **We recommend that you confirm the programming of every transmitter.**

### ENTER ZN NUM.

01-64, 91, 92, 95, 96, 99

To quit, enter 00 to quit (returns to data field mode).

### SUMMARY SCREEN:

System displays a summary of the entered zone's current programming. Press [\*] to continue.

### ZONE TYPE

00 = Not used	07 = 24-Hr Audible	20 = Arm-STAY*
01 = Entry/exit #1	08 = 24-Hr Aux	21 = Arm-AWAY*
02 = Entry/exit #2	09 = Fire	22 = Disarm*
03 = Perimeter	10 = Interior w/Delay	23 = No Alarm Resp
04 = Interior Follower	12 = Monitor Zone	24 = Silent Burglary
05 = Trouble Day/Alarm Night	14 = Carbon Monoxide	77 = Keypress
06 = 24-Hr Silent	16 = Fire w/Verify	81 = AAV Monitor Zone

\*5800 button-type transmitters only

90-91 = Configurable

### PARTITION

1, 2, or 3-common

### REPORT CODE

1-9, 10 for 0, 11 for B, 12 for C, 13 for D, 14 for E, 15 for F  
For Contact ID®, enter any non-zero entry as the first digit to enable reporting for this zone.

To disable the report code for this zone, enter 00.

### HARDWARE TYPE

Appears only for zones 02-08. Zone 1 is automatically set for EOL operation. Enter the desired hardware type:

0 = EOL; 1 = NC; 2 = NO; 3 = zone doubling (ZD); 4 = double-balanced (DB)

### RESPONSE TIME

For hardwired zones 01-08. Enter the desired response time for this zone:

0 = 10mSec; 1 = 350mSec; 2 = 700mSec; 3 = 1.2 secs (see field \*174).

NOTE: If zone doubling is being used, the response time selected for zones 02-08 automatically applies to each zone's associated doubled zone.

### INPUT TYPE

Skipped for zones 2-8, and for zones 10-16 if zone-doubling enabled. Enter the input type: 2 = AW (Aux wired zone); 3 = RF (supervised RF); 4 = UR (unsupervised RF); 5 = BR (unsupervised button type)

NOTE: To change the input type of a previously programmed wireless device to a wired zone, you must first delete the transmitter's serial number.

### INPUT S/N

Enroll the transmitter's serial number and loop number as follows:

- a. Transmit two open/close sequences (for button-type transmitters, press and release the button twice, waiting about 4 seconds before pressing the button the second time).

OR

- b. Manually enter the 7-digit serial number printed on the label of the transmitter. Press the [\*] key to move to the "L" position, then enter the loop number.

Use the [A] (Advance) and [B] (Back) keys to move the cursor forward and back within the screen. Pressing the [C] (Copy) key will insert the previously enrolled serial number, if desired (used when programming a transmitter with several input loops).

To delete an existing serial number, enter 0 in the loop number field. The serial number will change to 0's. If 0 was entered in error, simply re-enter the loop number or press [#], and the serial number will return to the display.

2. Press [\*] to continue. The system now checks for a duplicate serial/loop number.  
If no duplicate is found, the display shows the serial number and loop number.
3. Press [\*] to continue to confirmation screen.

(prompts continued in next column)

### XMIT TO confirm

Appears if you answered "Yes" at the "Set to Confirm" prompt. Activate the loop input or button that corresponds to this zone.

Press [\*] to continue.

If the serial/loop number transmitted does not match the serial number entered, a display showing the entered and the received serial/loop numbers appears.

If so, activate the loop input or button on the transmitter once again. If a match is not obtained, press the [#] key twice and then enter (or transmit) the correct serial number.

Press [\*] to continue

If the serial number transmitted matches the serial number entered, the keypad will beep 3 times and a summary display will appear, showing that zone's programming. An "s" indicates that a transmitter's serial number has been enrolled.

Press [\*] to accept the zone information and continue.

### PROGRAM ALPHA?

Press 1 if you want to program descriptors for the zone now, and refer to the \*82 Descriptor Programming section for procedure. To program descriptors later, enter 0 (no).

Press [\*] to return to the ENTER ZN NUM prompt.

## \*58 Expert Zone Programming Mode

(press \*58 while in Data Programming mode)

### SET TO CONFIRM?

Select whether you want confirmation of wireless device enrollment. (See "XMIT TO CONFIRM" prompt later in this section.) **We recommend that you confirm the programming of every transmitter.**

### SUMMARY SCREEN

```
Zn ZT P RC HW: RT
01 09 1 10 EL 1
```

(Typical for Zone 1, initial summary screen)

```
Zn ZT P RC IN: L
10 00 1 10 RF: -
```

(Typical for entered zone number; zone 10 in this example)

System displays summary of zone 1's current programming.

Enter the zone number being programmed, then press [\*]. A summary screen for that zone is displayed, along with any current programming values, and the cursor moves to the Zone Type location. The cursor then automatically moves to the next locations after each entry is made.

### Special Function Keys:

- [A] (Advance) and [B] (Back) keys on the keypad move the cursor within the screen.
- [C] (Copy) key will insert the previous zone's attributes, if desired.
- [D] key starts the **Wireless Key Programming Templates** menu (see Wireless Key Programming Templates section that follows this section).

Sequentially enter Zone Type (ZT), Partition (P), and Report Code (RC; 0-9 only; use \*56 menu mode for hex codes), then Hardware Type (HW) and Response Time (RT) for basic wired zones 1-8 or Input Device Type (IN) for zones 9 and higher (Loop Number [L] is programmed at the INPUT S/N prompt).

See \*56 Zone Programming Menu Mode section described earlier for entry values.

Press [\*] to save the programming and continue. If needed, press the [#] key to back up without saving.

- For wireless devices (input types RF, UR, BR), continue to the INPUT S/N (serial number/loop number) and XMIT TO CONFIRM prompts described earlier in the **\*56 Zone Programming Menu Mode** section. When done, the display returns to the initial summary screen prompt to let you program the next zone.

- For wired devices, the display returns to the initial summary screen prompt to let you program the next zone.

To Quit, enter 00 at the zone number location and press [\*].



## Wireless Key Programming Templates (press the [D] key from \*58 Menu mode Summary Screen)

This procedure programs the wireless keys, but a key is not active for arming/disarming until it is assigned to a user number (see **System Operation** section, Assigning Attributes Command in the Installation Instructions).

### TEMPLATE ?

Enter desired template number 1–6 (see chart below), then press [\*] to continue.

To exit the Template screen, press [#]. The system returns to the \*58 Menu mode Summary Screen.

### TEMPLATE SUMMARY

L	01	02	03	04
T	23	22	21	23

The selected template is displayed.

The top line represents loop numbers, the bottom line represents each loop's zone type.

Press [\*] to accept template and continue.

### PARTITION

Enter the partition (1, 2) in which the key is to be active.

Press [\*] to continue.

### ENTER START ZONE

The system displays the lowest zone number of the highest available consecutive 4-zone group.

To start at a different zone number, enter the zone desired, and press [\*]. If the system has four consecutive zones beginning with that zone, the zone number is displayed. If not, the system will again display a suggested zone that can be used.

If the required number of consecutive zones is not available at all, the system will display "00".

Press [\*] to accept.

Continue to the INPUT S/N (serial number/loop number) and XMIT TO CONFIRM prompts described earlier in the \*56 Menu Mode section.

**IMPORTANT:** When confirmed, the key is not active for arming/disarming until it is assigned to a user number (using the assigning attributes command, attribute "4"). See System Operation section in Installation Instructions.

When done, the keypad beeps three times and the display returns to the ENTER START ZONE prompt to let you enter the starting zone for the next wireless key.

### Wireless Key Predefined Default Templates

For 5804	Loop	Function	Zone Type	For 5804BD	Loop	Function	Zone Type
TEMPLATE 1	1	No Response	23	TEMPLATE 4	1	No Response	23
	2	Disarm	22		2	No Response	23
	3	Arm Away	21		3	Arm Away	21
	4	No Response	23		4	Disarm	22
TEMPLATE 2	1	No Response	23	TEMPLATE 5	1	No Response	23
	2	Disarm	22		2	Arm Stay	20
	3	Arm Away	21		3	Arm Away	21
	4	Arm Stay	20		4	Disarm	22
TEMPLATE 3	1	24-hour audible	7	TEMPLATE 6	1	24-hour audible	7
	2	Disarm	22		2	Arm Stay	20
	3	Arm Away	21		3	Arm Away	21
	4	Arm Stay	20		4	Disarm	22

## \*57 Function Key Programming (press \*57 while in Data Programming mode)

The Function Key Worksheet is on page 19.

### PRESS KEY TO PGM

Press the desired function key to be programmed, A-D, then press [\*] to continue.

When done, press 0 to exit this mode and return to data field mode.

**NOTE:** A key programmed as a function key is no longer available to be used as an end-user macro key or panic key.

### PARTITION

Enter the partition (1-3) in which this function key will be active.

### KEY "A" FUNC

Enter the desired function for this key:

00 = For the Function key selected, the functions are pre-defined as follows (default):

If A selected = Zone 95 (emergency key, same as [1] [\*] pair)

If B selected = Zone 99 (emergency key, same as [\*] [#] pair)

If C selected = Zone 96 (emergency key, same as [3] [#] pair)

If D selected = Single-button paging (continued in next column)

### KEY "A" FUNC (continued)

01 = Single-button paging (sends a 999-9999 message to pager)

02 = Display time

03 = Arm AWAY (reports as User 00 if closing reports are enabled)

04 = Arm STAY (reports as User 00 if closing reports are enabled)

05 = Arm NIGHT-STAY (reports as User 00 if closing reports enabled)

06 = Step Arming (arms STAY, then NIGHT-STAY if enabled, then AWAY)

07 = Output Device Command (for device programmed as system operation type 66 in \*80 Menu Mode)

08 = Communication Test (sends Contact ID code 601)

09 -12= Macro Keys 1-4 respectively (defined by [#] [6] [6] command)

Press [\*] to continue; returns to key number prompt with the next function key letter displayed.

## \*79 Output Device Menu Mode

(press \*79 while in Programming mode)

The \*79 Device Mapping Worksheet is on page 19.

### ENTER OUTPUT NO.

01-18 = relays/X-10

[\*] to continue

### OUT NORM LOW (appears only for triggers 17/18)

0 = no (standard default); sets the output level normally high  
1 = yes; sets the output normally low (can be used for resetting 4-wire smoke detectors)

[\*] to return to Output Number prompt

### OUTPUT TYPE

0 = delete; 1 = relay (skip to "B" prompt); 2 = Powerline Carrier device (skip to "A" prompt)

[\*] to continue.

### A: UNIT No. (if X-10 was selected as Output Type)

Enter the unit code (01-16, set at the device).

[\*] to return to the Output Number prompt continue

### B: MODULE ADDR (if relay was selected as Output Type)

Enter the predefined address for this module (07-15; see Table of Device Addresses on page 2).

Make sure the module's DIP switches are set to the selected address.

**NOTE:** If using Multi-Mode (IP/GSM feature), select one of the 4204 addresses, though a physical 4204 module is not installed. If using 2-4204 multi-mode option, the second 4204 address is automatically one number higher than the first one selected. Make sure these addresses are not used by physical 4204 modules that may be installed. See \*29 Menu Mode section for enabling Multi-Mode.

[\*] to continue

### REL POSITION (actual relay number on module)

For 4204 modules, relay numbers are 1-4. For 4229 modules, relay numbers are 1-2.

**NOTE:** If using multi-mode, program the relays to trigger on those system events to be sent to the user's email address. See \*29 Menu Mode section for enabling Multi-Mode.

[\*] to return to the Output Number prompt for programming the next device

## \*80 Output Function Menu Mode

(press \*80 while in Programming mode)

The Output Definition Worksheet is on page 20.

### OUTPUT FUNCT. #

Enter the output function number to be defined: 01-48

[\*] to continue; 00 = exit

### SUMMARY SCREEN

01	A	E	P	Trig
?00	0	0	-	ZL=00

This screen displays a summary of the current output programming  
A = Output Action; E = Triggering event; P = Partition; Trig = Trigger type  
Question mark indicates the device shown has not been mapped. Use \*79 Menu mode to map the device.

[\*] to continue

### ACTIVATED BY

0 = delete (deletes the output function and any previous programming); a confirmation prompt appears.

To delete this output definition, press 1. If you do not want to delete this output, press 0.

1 = zone list (go to "A" prompt); 2 = zone type (go to "B" prompt); 3 = zone number (go to "C" prompt)

Press [\*] to continue

### "A" (if zone list was selected)

#### ZN LIST

Enter the desired zone list number (01-08). At the ENTER EVENT prompt, enter the zone list event that will activate this output (0 = restore; 1 = alarm; 2 = fault; 3 = trouble)

Press [\*] to continue and skip to the "Output Action" prompt.

### "B" (if zone type was selected)

#### ENTER ZN TYPE

Enter the desired zone type. See list below \*80 Worksheet for zone types.

At the PARTITION prompt, enter the partition in which this zone type will occur (0 = any partition; 1 = partition 1; 2 = partition 2; 3 = partition 3).

Press [\*] to continue and skip to the "Output Action" prompt.

### "C" (if zone number was selected)

#### ENTER ZN NO.

Enter the desired zone number, then press [\*] to continue. At the ENTER EVENT prompt, enter the zone event that will activate this output (0 = restore; 1 = alarm/fault/trouble).

Press [\*] to continue to the OUTPUT ACTION prompt

## \*80 Menu Mode (continued)

### OUTPUT ACTION

0 = off; 1 = Close for 2 seconds; 2 = Close and Stay Closed; 3 = Continuous Pulse 1 sec on and 1 sec off

4 = Change Device State; 5 = Duration 1 (see data field \*177); 6 = Duration 2 (see data field \*177)

Press [\*] to continue.

### ENTER OUTPUT NO.

Enter the device output number (programmed in \*79 Menu Mode) you want associated with this output.

01-16 = output no.; 17-18 = on-board triggers

Press [\*] to continue.

### SUMMARY SCREEN

A summary screen appears showing the programmed settings.

Press [\*] to return to OUTPUT FUNCTION NUMBER prompt.

## \*81 Zone List Menu Mode

(press \*81 while in Programming mode)

The Zone List Worksheet is on page 19.

### ZONE LIST NO.

Enter the zone list number (01-12) to program (or 00 to exit this mode).

Press [\*] to continue.

### ENTER ZN NUM.

Enter each zone number (01-64) to add to the zone list, followed by pressing [\*] (example, 01\*, 02\*, 03\*).

Press 00 to continue.

**IMPORTANT:** Do not include fire zones in zone lists that are used to STOP device actions.

### DEL ZN LIST?

0 = don't delete list; current zone list remains saved

1 = delete this zone list; All zones in the zone list will be deleted.

[\*] to continue

### DELETE ZONE?

0 = don't delete zones; save the entire zone list and return to the Zone List No. prompt

1 = go to next prompt to delete zones

[\*] to continue

### ZN TO DELETE?

Enter each zone (01-64) to be deleted from the list, following each with [\*]. 00 when done to return to the Zone List No. prompt.

## \*82 Alpha Descriptor Programming

### PRE-DEFINED DESCRIPTORS

#### PROGRAM ALPHA

0 = no (quit Alpha mode)

1 = yes

Press [\*] or [#] to continue.

#### CUSTOM WORDS

0 = no (continue to descriptor programming)

1 = yes (go to custom word programming)

Press 0 to program standard alpha descriptors. The system will then display the descriptor for zone 1.

To program custom words, press 1 (custom words are described later).

Press [\*] to continue.

#### \* ZN 01

Descriptor screen for zone 1 appears. To program a descriptor (up to 3 words) for a zone, do the following:

- Press [\*] plus the desired zone number (existing descriptor, if any, is displayed), then press [\*] plus the zone number again (flashing cursor appears).
- a. Press [#] plus the 3-digit number from the Alpha Vocabulary List on page 11 for the first word.  
b. Press [6] to accept the word and move the cursor for the next word.
- Repeat steps 2a and 2b for the second and third words (if used).
- When all words have been entered, press [8] to save the descriptor for that zone. The flashing cursor disappears.
- Repeat steps 1-4 to assign a descriptor for the next zone.
- When all descriptors have been entered, press [\*] + 0 + 0 (or simply press [#]) after the last descriptor has been saved to return to the PROGRAM ALPHA? prompt.  
Enter 0 (no) at the prompt to exit this mode and return to Data Field mode.

## \*82 Alpha Descriptor Programming (continued)

### ADDING CUSTOM WORDS (up to 10 words)

For custom words, the keys have the following functions:

- [4] moves cursor one space to the left.
- [6] moves cursor one space to the right.
- [8] saves the new word in the system's memory.

1. Select Custom Word mode (enter 1) when the prompt "CUSTOM WORD ?" is displayed.
2. Enter the number (01-10, or 11, 12, 13 for partition descriptors- see below) of the custom word or word string to be created, corresponding to index numbers 245 - 254 respectively. A cursor appears at the beginning of the second line.  
**NOTE:** Custom words 8, 9, and 10 are "reminder words" that can be programmed to display using Scheduling Mode.
3. Refer to the Character (ASCII) Chart on the next page.  
Press [#], followed by the two-digit entry for the first letter you would like to display (e.g., # 6 5 for "A"). The cursor moves to the right, in position for the next character.  
**To delete a character,** simply enter the SPACE character (#32) at the unwanted character's location.

4. Repeat Step 3 to create the desired word(s). Each word can be a maximum of 10 characters (except custom message/partition descriptor word numbers 11, 12, and 13, which can be a maximum of 16 characters).
5. When the word is complete, press the [8] key to save the custom word(s) in the vocabulary list and return to the "CUSTOM WORD ?" display.
6. Repeat Steps 1-5 for other custom words to be entered. To change a custom word, just overwrite it. When all words have been programmed, enter 0 at the "CUSTOM WORD ?" prompt to return to the Program Alpha prompt. Enter 0 again to exit Descriptor mode.

**To Assign Partition/Custom Message Descriptors,** use Adding Custom Words procedure, but: use the following word numbers in step 2:  
11 = partition 1; 12 = partition 2; 13 = common lobby

### ALPHA VOCABULARY LIST (For Entering Zone Descriptors)

000 (Word Space)	• 057 DOOR *	- L -	- R -	- V -
• 001 AIR	• 059 DOWN	• 106 LAUNDRY *	155 RADIO	209 VALVE
• 002 ALARM *	• 060 DOWNSTAIRS	• 107 LEFT	• 156 REAR	210 VAULT
004 ALLEY	061 DRAWER	108 LEVEL	157 RECREATION	212 VOLTAGE
005 AMBUSH	• 062 DRIVEWAY	• 109 LIBRARY *	159 REFRIGERATION	- W -
• 006 AREA	• 064 DUCT	• 110 LIGHT	160 RF	213 WALL
• 007 APARTMENT	- E -	111 LINE	• 161 RIGHT	214 WAREHOUSE
• 009 ATTIC *	• 065 EAST	• 113 LIVING *	• 162 ROOM *	• 216 WEST
010 AUDIO	066 ELECTRIC	• 114 LOADING	163 ROOF	• 217 WINDOW *
- B -	067 EMERGENCY *	115 LOCK	- S -	• 219 WING
• 012 BABY *	068 ENTRY	116 LOOP	164 SAFE	220 WIRELESS
• 013 BACK *	• 069 EQUIPMENT	117 LOW	165 SCREEN	- X -
• 014 BAR	• 071 EXIT *	• 118 LOWER	166 SENSOR	222 XMITTER
• 016 BASEMENT *	072 EXTERIOR	- M -	• 167 SERVICE	- Y -
• 017 BATHROOM *	- F -	• 119 MACHINE	• 168 SHED *	223 YARD
• 018 BED	• 073 FACTORY	121 MAIDS	169 SHOCK	- Z -
• 019 BEDROOM *	075 FAMILY	122 MAIN *	• 170 SHOP *	224 ZONE (No.)
020 BELL	• 076 FATHERS	• 123 MASTER *	171 SHORT	• 225 ZONE *
• 021 BLOWER	• 077 FENCE	• 125 MEDICAL *	• 173 SIDE *	• 226 0
• 022 BOILER	• 079 FIRE *	126 MEDICINE	174 SKYLIGHT	• 227 1
023 BOTTOM	• 080 FLOOR *	128 MONEY	175 SLIDING *	• 228 1ST *
025 BREAK	081 FLOW	129 MONITOR	• 176 SMOKE *	• 229 2
• 026 BUILDING	082 FOIL	• 130 MOTHERS	• 178 SONS	• 230 2ND *
- C -	• 083 FOYER	• 131 MOTION *	• 179 SOUTH	• 231 3
028 CABINET	084 FREEZER	132 MOTOR	180 SPRINKLER	• 232 3RD *
• 029 CALL	• 085 FRONT *	- N -	• 182 STATION	• 233 4
030 CAMERA	- G -	• 134 NORTH	184 STORE	• 234 4TH
031 CAR	• 089 GARAGE *	135 NURSERY	• 185 STORAGE *	• 235 5
033 CASH	• 090 GAS	- O -	186 STORY	• 236 5TH
034 CCTV	091 GATE	• 136 OFFICE *	190 SUPERVISED *	• 237 6
035 CEILING	• 092 GLASS	• 138 OPEN *	191 SUPERVISION	• 238 6TH
036 CELLAR	093 GUEST	139 OPENING	192 SWIMMING	• 239 7
• 037 CENTRAL	094 GUN	• 140 OUTSIDE	193 SWITCH	• 240 7TH
038 CIRCUIT	- H -	142 OVERHEAD	- T -	• 241 8
• 040 CLOSED *	• 095 HALL *	- P -	194 TAMPER	• 242 8TH
• 046 COMPUTER	• 096 HEAT	143 PAINTING	196 TELCO	• 243 9
047 CONTACT	098 HOLDUP	• 144 PANIC *	197 TELEPHONE	• 244 9TH
- D -	099 HOUSE *	145 PASSIVE	• 199 TEMPERATURE	245 Custom Word #1
• 048 DAUGHTERS	100 INFRARED	• 146 PATIO *	200 THERMOSTAT	246 Custom Word #2
049 DELAYED	• 101 INSIDE *	147 PERIMETER	• 201 TOOL	247 Custom Word #3
• 050 DEN *	102 INTERIOR	• 148 PHONE	202 TRANSMITTER	248 Custom Word #4
051 DESK	103 INTRUSION	150 POINT	- U -	249 Custom Word #5
• 052 DETECTOR *	- J -	151 POLICE *	• 205 UP	250 Custom Word #6
• 053 DINING *	104 JEWELRY	152 POOL *	• 206 UPPER	251 Custom Word #7
054 DISCRIMINATOR	- K -	• 153 POWER	• 207 UPSTAIRS *	252 Custom Word #8
055 DISPLAY	• 105 KITCHEN *		• 208 UTILITY *	253 Custom Word #9
				254 Custom Word #10

**Note:** Bulleted (\*) words in **boldface type** are those that are also available for use by the 4286 Phone Module. If using a Phone module, and words other than these are selected for Alpha descriptors, the module will not provide annunciation of those words.  
*Italicized words followed by an asterisk indicate those words supported by the 6160V/6150V Voice Keypads*

### CHARACTER (ASCII) CHART (For Adding Custom Words)

32 (space)	41 )	50 2	59 ;	68 D	77 M	86 V
33 !	42 *	51 3	60 <	69 E	78 N	87 W
34 "	43 +	52 4	61 =	70 F	79 O	88 X
35 #	44 ,	53 5	62 >	71 G	80 P	89 Y
36 \$	45 -	54 6	63 ?	72 H	81 Q	90 Z
37 %	46 .	55 7	64 @	73 I	82 R	
38 &	47 /	56 8	65 A	74 J	83 S	
39 '	48 0	57 9	66 B	75 K	84 T	
40 (	49 1	58 :	67 C	76 L	85 U	

## \*29 Internal Device Menu Mode (for Programming IP and GSM Module Options)

This mode is for programming the Internet connection (IP) and GSM Module configuration, collectively referred to as the Internal Device.

**NOTE:** The Internal Device is automatically set to address 3 and cannot be changed.

**IMPORTANT:** The use of the IP connection or the VISTA-GSM module requires an AlarmNet-I account. Please obtain the account information from the central station prior to programming this module.

The following section describes the programming of the internal device options using an alpha keypad. Alternatively, these options can be programmed via the AlarmNet Direct website. After programming is complete, **the control must be registered** with AlarmNet (via the control's RJ45 Internet connection). Refer to the Registration with AlarmNet section for procedures.

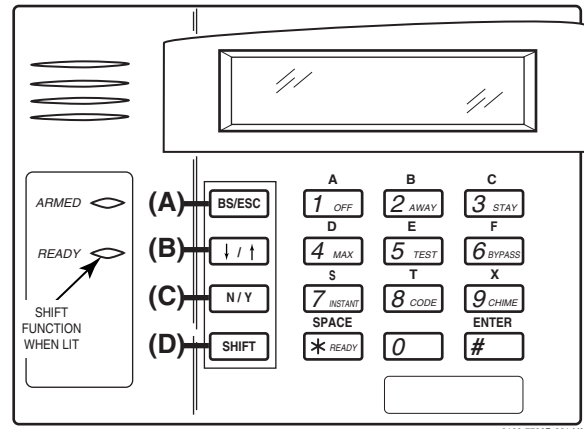
### Using an Alpha Keypad as a 7720P Programming Tool

When programming IP/GSM features (with \*29 menu mode), the alpha keypad mimics the functions of the 7720P Programming Tool. See figure at right and table below for 7720P key functions. Each key has two possible functions: a normal function and a SHIFT function.

**Normal functions:** The numeric values labeled directly on the keys and the left-hand functions shown in diagram on the ABC keys. To perform a normal key function, simply press the desired key.

**SHIFT functions:** Those functions shown in diagram above the numerical keys and the right-hand functions shown on the ABC keys. To perform a SHIFT key function, press SHIFT key (D key), then press the desired function key (shift function is indicated by the lit READY LED).

## 7720P Emulation Template for Alpha Keypads



6160-7720P-001-V0

### Normal and SHIFT key Functions While in \*29 Menu Mode

Key	Normal Key Function	SHIFT Key Function
(A) = BS/ESC	[BS]: Press to delete entry Also, can reset EEPROM defaults †	[ESC]: Press to quit Program Mode
(B) = ↓/↑	[↓]: Scroll down programming	[↑]: Scroll up programming
(C) = N/Y	[N]: Press for "NO" answer	[Y]: Press SHIFT-Y for "YES" answer
(D) = SHIFT	Press before pressing a SHIFT key function. Will light READY LED. LED goes out once a key is pressed. Press again for each SHIFT function desired.	
1/A	[1]: For entering the number 1	[A]: Used for entering C.S. ID number
2/B	[2]: For entering the number 2	[B]: Used for entering C.S. ID number
3/C	[3]: For entering the number 3	[C]: Used for entering C.S. ID number
4/D	[4]: For entering the number 4	[D]: Used for entering C.S. ID number
5/E	[5]: For entering the number 5	[E]: Used for entering C.S. ID number
6/F	[6]: For entering the number 6	[F]: Used for entering C.S. ID number
7/S	[7]: For entering the number 7	[S]: Press to display diagnostic status
8/T	[8]: For entering the number 8	[T]: Press to send TEST messages
9/X	[9]: For entering the number 9	[X]: Press to reset the IP/GSM
[*] / SPACE	[*]: Used to select programming options	[SPACE]: Not used
0	[0]: For entering the number 0	
[#] / ENTER	[#] / ENTER: Press to accept entries	No SHIFT function

† Active only when the "REVIEW?" prompt is displayed

### Internal Device (IP and GSM) Default Values

The programming default values for \*29 Menu Mode are listed in the Table below.

	OPTION	STANDARD DEFAULT VALUE	ACTUAL ENTRY
1	Internal Device	IP	
2	Primary City ID	??	
3	Primary CS ID	??	
4	Primary Sub ID	????	
5	Supervision	24 Hours	
6	GSM Rollover Y/N	N (if GSM enabled)	
7	GSM 24Hr Tst Y/N	N (if GSM enabled)	
8	Old Alarm Time	10 Minutes	
9	IP Fault Time	00 Minutes	
10	GSM Fault Time	00 Minutes (if GSM enabled)	
11	Notify Panel Of	Neither Fault (if IP and GSM enabled)	
12	Use DHCP Y/N	Y (if IP or IP/GSM enabled)	
13	NIC IP Address	255.255.255.255 (if DHCP not used)	
14	Subnet Mask	255.255.255.255 (if DHCP not used)	
15	Gateway IP Addr	255.255.255.255 (if DHCP not used)	
16	DNS IP Addr.	255.255.255.255 (if DHCP not used)	

### Status and Contact ID Reporting Codes

The Internal Device (IP/GSM) sends status messages to the control panel for network connectivity failures. Trouble messages are displayed on the keypad as "Check 103," with status displayed as "LngRng Radio" followed by a 4-digit keypad display status code, defined below.

#### Keypad Display Status Codes

CODE	DESCRIPTION
0000	Control panel lost communication with internal device
0005	internal device has lost contact with AlarmNet network
000F	internal device is not registered; account not activated
0019	GSM module shut down
0400	internal device Power-on reset

\*\* reports only if IP and GSM enabled

#### Contact ID Codes (as displayed at 685) sent to CS via IP/GSM

CODE	DESCRIPTION
E339 C803	Power-on reset
E350 C951	Primary communication path failure (Ethernet)**
R350 R951	Primary communication path restore (Ethernet)**
E350 C952	Secondary communication path failure (GSM)**
R350 C952	Secondary communication path restore (GSM)**
E355 C000	Module lost ECP communication with control
R355 C000	Module restore ECP communication with control
E353 C103	Long range transmitter fault trouble
R353 C103	Long range transmitter fault restore

## Using \*29 Menu Mode to Program IP/GSM Options

### Entering \*29 Program Mode

Press \*29 while in Data Field Programming mode.  
The following prompts appear.

### Enable INT IP/GSM?

0 = No, not using either IP or GSM; 1 = Yes, using IP and/or GSM module  
[\*] to continue. NOTE: Default = 1 (IP and/or GSM)

**IMPORTANT:** If using an external communication device, see the **VISTA-GSM Module Installation** section of the Installation and Setup Guide (**Inadequate Signal Strength** paragraph) for physical installation of an external communication device. When complete, enter 1 at this prompt and enter 1-Prog at the next prompt. Then program the external device using the Installation and Setup Guide included with the external communication device.

### Programming/Diagnostics Select

1 = Prog (program the IP/GSM options)  
2 = Diag (enter diagnostic mode)  
0 = Quit; return to data field programming mode

### Internal Device Programming Prompts

The keys used to select and enter options now follow 7720P keypad emulation. Refer to the table on the previous page for detailed key functions. The following is a summary:

- [\*] = scroll the options of a particular prompt
- [#] = accept the entry and move to the next prompt
- [A] = backspace or shift-[A] for escape
- [B] = scroll to next prompt or shift-[B] scroll to previous prompt
- [C] = answer No or shift-[C] answer Yes to prompt
- [D] = shift key

### Internal Device Selection

Select the type of IP and/or GSM module usage (press [\*] to scroll choices):  
Disabled (none); IP only; GSM module only; IP & GSM  
[#] to continue

### Multi-Mode (email reporting)

This feature is available only after authorization for it is set via the web-based programming tool on the AlarmNet Direct website.

Multi-mode emulates 4204 Relay Module outputs to send up to four (4204 sourced) or up to eight (2-4204 sourced) reports of system events to the user via email (email address is entered at the AlarmNet Direct website). Use the AlarmNet Direct website to customize event titles, if desired. If enabled, a multi-mode address must be entered in the next prompt.

Use \*79/\*80 Menu modes to program each emulated output to trigger a desired system event that, upon occurrence, will be sent to the user's email address.

Select the desired multi mode option:

Disabled = no email reporting of events  
4204 Sourced = up to four types of events reported (relay numbers 1-4 report as events 1-4 respectively)  
2-4204 Sourced = up to eight types of events reported (first module's relay numbers 1-4 report as events 1-4 respectively; second module's relay numbers 1-4 report as events 5-8 respectively)

To scroll the choices: [\*] key scrolls forward; [backspace] key scrolls backward  
[#] to continue

NOTES:

1. Multi-mode has not been evaluated by UL.
2. Multi-mode (email notification) is intended as a convenience for the user, and does not replace Central Station reporting of critical events (alarms, troubles, etc.).

### Multi-Mode Address

This prompt appears if Multi Mode is enabled.  
12-15 =emulated 4204 Relay Module address.

If using "2-4204-sourced," the address of the second module is automatically assigned an address one higher than the first module's address.

NOTE: A 4204 Relay module address is required for multi-mode purposes, but an actual 4204 Relay module is not used.

### Primary City ID

NOTE: Account information is provided by the central station administrator.  
01-99 (decimal) = 2-digit primary city code

### Primary CS ID

Enter the primary central station's system ID number, 01-FE (HEX)

### Primary Sub ID

Enter the 4-digit customer account number, 0001-9999 (decimal).

### Remote Access

This feature is available only after authorization for it is set via the web-based programming tool on the AlarmNet Direct website.

Remote Services allow the end user to access their security system from a computer via the remote services website. Most system functions can then be performed.

[Y] = use remote services  
[N] = do not use remote services  
[#] to continue

### Keypad Address (for Remote Access)

This prompt appears if remote access is enabled.

For enhanced remote access features, choose an AUI address. If no AUI addresses are available (all four AUIs are being used), choose an available standard keypad address (some remote access features will be unavailable).

1, 2, 5, 6 = emulated AUI address  
17-23 = emulated standard keypad address

NOTE: An AUI or standard keypad address is required for remote access purposes, but an actual AUI device or keypad is not used.

### Supervision

The supervising station must hear from the IP/GSM at least once during the supervision period. AlarmNet transmits a communications failure alarm to the central station if the supervision message is not received within the period.

This selection sets the supervision timing for one of the following values:

if using IP and/or GSM	if using IP only (not for GSM usage)
• 30 day	• US UL Line (6 Min)
• 24-hours	• US UL Line (90 Sec)
• None (no supervision)	• CN UL Line Lv1 3 (3 Min)
	• CN UL Line Lv1 4 (90 Sec)
	• CN UL Line Lv1 5 (75 Sec)
	• 1 hour

To scroll the choices: [\*] key scrolls forward; [backspace] key scrolls backward  
[#] to continue

### GSM Rollover /N

Appears only if IP&GSM is selected as Internal Device option.

[Y] = all messages (including AlarmNet network supervisory messages) are sent over the GSM network in the event of an Internet failure

[N] = all messages (except AlarmNet network supervisory messages) are sent automatically over the GSM network in the event of an Internet failure

### GSM 24Hr Tst /N

Appears only if IP&GSM is selected as Internal Device option.

[Y] = have a message sent once a day to verify GSM operation. A "secondary communication path loss" message is generated if the message is not successfully delivered.

[N] = disable 24hr test

### Old Alarm Time

The old alarm time sets how long an undeliverable alarm is retried for delivery to AlarmNet. If the message is not validated, it is retried until the old alarm time is reached or the message is validated. The choices available are:

- 10 Minutes
- 15 Minutes
- 30 Minutes
- 1 Hour
- 2 Hours
- 4 Hours
- 8 Hours
- 12 Hours
- 24 Hours

To scroll the choices: [\*] key scrolls forward; [backspace] key scrolls backward  
[#] to continue

### IP Fault Time

Appears only if IP or IP&GSM is selected as Internal Device option.

00-99 = time delay (in minutes) before the control notifies the central station that there is a loss of contact with the network over the Ethernet (IP) connection.

0 = no delay (valid only if using IP only)

Must be two (2) minutes for UL installations.

### GSM Fit Time

Appears only if GSM or IP&GSM is selected as Internal Device option.

00-99 = time delay (in minutes) before the control notifies the central station that a loss of contact with AlarmNet network has occurred.

0 = no delay (valid only if using GSM only)

Must be two (2) minutes for UL installations.

### Notify Panel Of \_

Appears only if IP&GSM is selected as Internal Device option.

Select from the following choices:

- Neither Fault
- Both IP and GSM must fail before fault code is sent (status code 4005 displayed); panel receives primary and secondary path failure messages. No message sent if only one or the other path fails.

To scroll the choices: [\*] key scrolls forward; [backspace] key scrolls backward  
[#] to continue

NOTE: IP failure will always be sent to the central station as Primary Path Failure, and GSM failure will always be sent as Secondary Path Failure.

### IP address information prompts

The following prompts appear only if IP or IP&GSM is selected as Internal Device.

It is recommended to use dynamically allocated IP addresses, but if fixed IP addresses are desired, contact your network administrator for the appropriate information. Note that a valid IP address must be entered in each prompt before the system continues to the next prompt. Entries cannot be left with the default values.

### Use DHCP

[Y] = have the IP addresses dynamically allocated (recommended), skip to Review prompt.

[N] = use fixed IP addresses; continue with next prompt  
[#] to continue

### NIC IP Address [255.255.255.255]

Enter the 4-part IP address for this device, separating each part with a space [\*] key, displayed as periods. [#] to continue

### Subnet Mask [255.255.255.255]

Enter the 32-bit address mask used to indicate the portion (bits) of the IP address that is being used for the subnet address, separating each part with a space [\*] key, displayed as periods. [#] to continue

### Gateway IP Addr [255.255.255.255]

Enter the 4-part IP address assigned to the Gateway, separating each part with a space [\*] key, displayed as periods. If unused set to 0.0.0.0. [#] to continue

### DNS IP Addr [255.255.255.255]

Enter the 4-part IP address assigned to the DNS (Domain Name System) server, separating each part with a space [\*] key, displayed as periods. If unused set to 0.0.0.0. [#] to continue

### Review? (and Exit \*29 Menu mode or Reset Defaults)

You can review the \*29 Menu mode options to ensure that the correct entries have been made. When satisfied, select [N] to exit \*29 Menu mode.

#### To review prompts or exit \*29 Menu mode:

[Y] = review prompts and entries, starting with Internal Device. Use the up/down arrow keys to scroll through the program fields without changing any of the values. If a value requires change, simply type in the correct value. When the last field is displayed, the "REVIEW?" prompt appears.

[N] = Exit \*29 menu mode and return to data field programming mode. The prompt briefly displays "DONE" before returning to data field mode prompt "Enter \* or #."

[#] to accept Y or N selection (# alone exits same as N)

#### To reset \*29 Menu mode defaults:

Press [ESC] at the Review prompt to display the "Set Defaults" prompt.

[Y] = reset \*29 menu mode options to factory values; if selected, all programmed \*29 Menu mode options are reset to the factory settings  
[N] = cancel reset defaults function

### Programming IP/GSM Options via AlarmNet Direct Website

To program the IP/GSM options via the AlarmNet Direct website (if you are already signed up for this service), go to:

<https://services.alarmnet.com/AlarmNetDirect/userlogin.aspx>

If you are not signed up for this service, click on "Dealer Sign-Up.

Log in and follow the on-screen prompts.

Please have the following information available:

1. Primary City ID (two-digit number)
2. Primary Central Station ID (two-digit hexadecimal number)
3. Primary Subscriber ID (four-digit number)
4. MAC ID and MAC CRC number (located on the outside of box and on label inside module) or MIN number of the device you are replacing
5. Mode of operation of existing module if replacing a "C" series radio.

After programming is complete, you must transfer the data to the module and the module must be registered. Refer to the Registration section for details.

### IP/GSM Diagnostic Commands (\*29 Menu Mode)

Diagnostic commands can be used to quickly view your Internet and GSM connectivity settings and options. For each command press the [shift] key and then the designated command key. For example, press [shift] then [1/A] to display the software revision screen.

To enter Diagnostic mode:

1. Press \*29 while in data field programming mode.
2. Enter "1" at the "Enable IP/GSM" prompt then press [\*].
3. Select "2" (Diag) at the next prompt.
4. Enter the desired command at the "Sel Key Command" prompt.

For subsequent commands, enter the next command at the current screen.

To exit Diagnostic mode, press ESC (shift-[A]).

Key	Prompt	Function
[A]	Internal IP/GSM x.x.xx mm/dd/yy	<b>Software Revision</b> "x.x.xx" indicates the installed software Revision. Mm/dd/yy indicates month, day and year of the revision.
[B]	MAC xxxxxxxxxxxx MAC CRC yyyy	<b>MAC Address</b> "xxxxxxxxxxxx" indicates the IP/GSM's unique identification number. Yyyy indicates the 4 digit MAC CRC needed to enroll the device in dealer direct. [*] to continue to SCID.
	SCID xxxxx xxxxx xxxxx xxxxx	<b>SCID Display</b> Only if GSM or IP/GSM enabled. Displays the identification number assigned to the SIM card (SCID) in this device. [*] to continue to IMEI.
	IMEI xxxxxxxx Xxxxxx x	<b>IMEI Display</b> Only if GSM or IP/GSM enabled. Displays the identification number assigned to the GSM module in this device. [*] returns to MAC Address.

### IP/GSM Diagnostic Commands (continued)

Key	Prompt	Function
[C]	Mon 01 Jan 2006 05:48:39 am	<b>Time</b> Retrieves the current date and time from the AlarmNet network in Greenwich Mean Time (GMT). This display confirms that the module is in sync with network.
[D]	Physical Link Good/Bad	<b>Physical Link</b> Only if IP or IP/GSM enabled. Indicates whether the device has detected a physical connection to the internet. [*] to continue to NIC IP address.
	NIC IP Address xxx.xxx.xxx.xxx	<b>IP Information Displays</b> Displays the IP address assigned to this device. [*] to continue to subnet mask.
	Subnet Mask xxx.xxx.xxx.xxx	Displays the 32-bit address mask used to indicate the portion (bits) of the IP Address that is being used for the subnet address. [*] to continue to gateway IP.
	Gateway IP Addr xxx.xxx.xxx.xxx	Displays the IP Address assigned to the Gateway. [*] to continue to DNS server IP.
	DNS Serv IP xxx.xxx.xxx.xxx	Displays the IP Address assigned to the DNS (Domain Name System) server. [*] to continue to encryption test.
	Encryption Test AES Passed!	Performs a self-test of the AES encryption algorithm. [*] to continue to DHCP.
	DHCP OK	<b>DHCP (Dynamic Host Configuration Protocol)</b> indicates server is performing satisfactorily. [*] returns to Physical Link prompt.
[E]	PriRSSI GPRS REG -xxxdbm x x	<b>GSM Status Displays</b> Only if GSM or IP/GSM enabled. PriRSSI – Primary Site RSSI level in dbm GPRS – GPRS Service availability where "x" can be: "Y" if GPRS is available "N" if GPRS is Not available REG – Registration status from GSM module where "x" can be: N – Not Registered H – Registered Home S – Searching D – Registration Denied R – Registered Roaming ? – Unknown Reg. State [*] to continue to next screen.
	Cntry Netw LAC xxx xxx xxxxx	Cntry – Country Code Netw – Network Code LAC – Reg. status from GSM. [*] to continue to next screen.
	Cell BaseSt Chan Xxxxx x xxx	Cell – Base Station ID BaseSt – Base Station Antenna Sector Chan – Control Channel in use [*] to continue to next screen.
	Second Site RSSI -xxxdbm	Secondary GSM Site RSSI level in dbm. [*] to continue to next screen.
[F]	Testing Gateway Redir 1	<b>Network Diagnostic Test</b> Only if IP or IP/GSM enabled. Performs a set of network diagnostics that tests the integrity of the links between the IP/GSM and the various connection points (Redirs) to AlarmNet.
[S]	ECP OK FLT	<b>Status request</b> OK = normal i = IP off line I = IP fault reported g = GSM off line G = GSM fault reported

## IP/GSM Diagnostic Commands (continued)

Key	Prompt	Function
[T]	Test Msg Sent	<b>Test Alarm</b> Sends a Test alarm to AlarmNet. Functional for a registered IP/GSM only. If the device is not registered, a message is displayed indicating that the command cannot be executed.
[X]	Reset CPU Y/N	<b>Reset the IP/GSM.</b> [N] = return to diagnostic mode (blank screen = enter next command or escape). [Y] = resets the module (blank screen = when reset complete, enter next command or escape).
[↑]	Registering ...	<b>Registration (Shift-UP arrow)</b> Registers a programmed IP/GSM with AlarmNet. If it is configured to report to AlarmNet, the IP/GSM will register with AlarmNet.
[↓]	Enter PIN#	<b>Registration with PIN for Replacement Module (DN arrow)</b> Registers a programmed IP/GSM with AlarmNet if it is configured to report to AlarmNet.
[0]	Force Server Update Y/N	<b>Force Upload of Configuration File to Server</b> [Y] = force the device to upload its entire configuration file to the server. [N] = cancel the operation. NOTE: If the internet is not available, and the module is not initialized when you enter this command, the following screen will be displayed: <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;">Cannot Upload Try Later! _</div> Wait for the RSSI LEDs to light, indicating initialization is complete, and try again.

## IP/GSM LED Functions

### IP (web) Network LED Functions

LED Color	LED	Description
Top Green	Ethernet Link/Activity	ON – link is active; OFF – no link
Middle Green	Link Speed	ON – 100 MB/S; OFF – 10 MB/S
Yellow	Network Collision	BLINK – collision detected; OFF – normal

### IP/GSM Status LED Functions

LED Color	LED	Description
Green	Status	ON – control is NOT registered with AlarmNet; OFF – control is registered with AlarmNet. FAST BLINK – Download session with Compass in progress. SLOW BLINK – In unison with yellow LED – Registration in progress.
Yellow	Message	ON – Message transmission pending. QUICK PERIODIC BLINK - Normal FAST BLINK – Message waiting for network ACK. SLOW BLINK – In unison with green LED – Registration in progress.
Red	Fault	ON – No contact with network; OFF – Normal. SLOW BLINK – Loss of communication with the panel (ECP fault). FAST BLINK – No network contact AND loss of communication with the panel.
All		FAST BLINK – In unison with the RSSI Bar Graph LEDs – Hardware Error. Call the AlarmNet Technical Assistance Center.

### Signal Strength and Status LED Meanings

Color	Label	Indication
Red	RSSI	ON = signal strength (RSSI) display OFF = status display
Yel (2)	mode	OFF = module operating in ECPmode
Green	Web	web connection status ON = connected to web OFF = no web connection
Green	GPRS	GPRS service availability ON = GPRS service available FLASH = GPRS in use OFF = no GPRS service (messages sent via SMS)
Green	GSM	network carrier registration status ON = registered with network carrier, no second site available FLASH = registered with network carrier and second site available, excellent RSSI BLINK = registered with network carrier and second site available, acceptable RSSI SLOW BLINK = registered with network carrier and second site available, low RSSI OFF = control not registered with network carrier

## Registration with AlarmNet

The control must be registered with AlarmNet before internet communication (via IP or GSM) can occur.

**To register, the control must be connected to the Internet.**

Register the control by using one of these methods:

### Register by phone

1. Call 1-800-222-6525

You will need the following information:

- MAC ID and MAC CRC number (found on the PCB label)
- Subscriber information (provided by the central station), including a city code, CSID, and a subscriber ID
- Activation ID (AID) and AID CRC numbers (found on the label on the VISTA-GSM module or on its carton)

2. When instructed to do so, triple-click the Test switch to complete the registration.

### Register with Alpha Keypad using \*29 Menu mode

1. Enter \*29 Menu mode, select Diagnostic mode, then press Shift then [↑] key (D key followed by the B key). The registration message is sent ("Registering" displayed) and the control waits for the acknowledgment.  
2. "Registration SUCCESS" displayed, indicating successful registration.

### Register with Test Switch on control's PCB (triple-click)

1. Click the switch three times.  
2. Watch the GSM Status LEDs: The Message (yellow) LED and the Status (green) LED will blink slowly in unison while registration is in progress.  
3. When registration is complete, the Status (green) LED goes out.

### Register with AlarmNet Direct Website

To register via AlarmNet Direct Website, please go to:

<https://services.alarmnet.com/AlarmNetDirect/userlogin.aspx>.

Log in and follow the on-screen prompts.

Please have the following information available:

- Primary City ID (two-digit number provided by central station)
- Primary Central Station ID (two-digit hexadecimal number provided by central station)
- Primary Subscriber ID (four-digit number provided by central station)
- MAC ID and MAC CRC number (located on outside of box and on label on control's PC board)
- Activation ID (AID) and AID CRC numbers (found on the label on the VISTA-GSM module or on its carton)

If you are not signed up for this service, click on "Dealer Signup" from the login screen to gain access to the Honeywell web-based programming.

### Dealer Sign-Up Direct Link:

[https://services.alarmnet.com/AlarmNetDirectP\\_Sign-Up](https://services.alarmnet.com/AlarmNetDirectP_Sign-Up).

You will be instructed how to proceed upon completing the sign-up form.

Only one sign-up per dealer is required. Once an initial user is established, additional logins may be created by that user.

Once the control is registered, you may log out of the AlarmNet Direct website.

## Setting Schedules (Installer Code + [#] + [6] [4])

### NOTES:

- The master code can only access schedules 01-16 and events 00-07.
- System clock must be set before schedules can be used.
- Programmed schedules do not take effect until the next scheduled "start" time. (e.g., if programming a schedule time window for 8AM to 5PM, the schedule does not take effect until 8AM after the schedule has been programmed.)

---

### ENTER SCHED NO.

01-16 = end-user schedules; 17-32 = installer-only schedules

[\*] to continue.

To Quit, enter 00.

---

### ENTER EVENT

- 00 = clear event
- 01 = Relay On/Off
- 02 = User Access
- 03 = Latch Key Report to Pager (sent to all pagers in the user's partition; message sent is 777-7777. User must be enabled for paging and system must be armed before reporting can occur.)
- 04 = Forced Stay Arming (Forced bypass is automatically enabled regardless of setting in field \*23)
- 05 = Forced Away Arming (Forced bypass is automatically enabled regardless of setting in field \*23)
- 06 = Auto Disarm
- 07 = Display "Reminder"
- 10 = Display custom words (if selected, system displays custom words 8, 9, and 10 at defined time. Can be used as installer's reminder message to the end user); programmable by installer only
- 11 = Periodic Test Report (see key commands in **Test Report Code**, data field \*64, to quickly set periodic test reporting intervals); programmable by installer only

[\*] to continue.

---

### DEVICE NUMBER (for event 1 relay on/off)

01-18; [\*] to continue.

---

### GROUP NUMBER (for event 2 user access)

1-8; [\*] to continue.

---

### PARTITION (for events 3-7,10,12)

0 = all partitions; 1 = partition 1; 2 = partition 2; 3 = common

[\*] to continue.

---

### START

01-12 = hour; 00-59 = minute; 0 = AM; 1 = PM; to select days, position the cursor under the desired days using the [\*] key to move forward, then press "1" to select the day.

[\*] to continue.

---

### STOP (for events 1 relay on/off; 2 user access; 3 latch key report)

See START for entries. [\*] to continue.

---

### REPEAT

0 = do not repeat; 1 = repeat schedule weekly; 2 = repeat schedule biweekly (every other week); 3 = repeat schedule every third week; 4 = repeat schedule every fourth week (28 days)

[\*] to continue

---

### RANDOMIZE (for events 01 and 11)

0 = no; 1 = yes

If selected, the scheduled start and stop times will vary within 60 minutes of the "hour" time. For example, if a schedule is set to start at 6:15pm, it will do so the first time 6:15pm arrives, but on subsequent days it will start anytime between 6:00 and 6:59 p.m.

**NOTE:** Do not use the random option if the start and stop times are within the same "hour" setting, otherwise unpredictable results may occur (e.g., the randomized stop time may occur before the start time).

[\*] to continue and return to ENTER SCHED NO. prompt to program the next schedule.

## Setting The Real-Time Clock

The Real-Time Clock must be set before completing the installation.

**NOTE:** All partitions must be disarmed before the Real-Time Clock can be set.

1. Master Code + [#] + [6] [3]
2. Press [\*] when the time/date is displayed. A cursor appears under the first digit of the hour.  
*To move cursor ahead, press [\*]. To go back, press [#].*
  - Enter the 2-digit hour setting, followed by the 2-digit minute setting, then press [1] for PM or [2] for AM.
  - Enter the last two digits of the current year, followed by the 2-digit month setting and the 2-digit day setting.
3. To exit, press [\*] when cursor is at the last digit, or wait 30 seconds.

## Uploading/Downloading Via The Internet

This control supports upload/download programming capability via the Internet by using the AlarmNet network and Compass downloading software. The control must be connected to the Internet (via the on-board RJ45 connector or VISTA-GSM module), have all IP features programmed (\*29 Menu mode), and be registered with AlarmNet.

The following is required at the Downloading Office:

- Broadband Internet Access and Broadband (Cable/DSL) Modem
- Broadband (Cable/DSL) Router (optional, if connecting more than one device to the Internet)
- Computer running Compass Downloading Software version that supports Internet upload/download for this control.

### To perform upload/download functions:

1. Connect the computer to the Internet and start the Compass downloading software.
2. Open the control's account, then select the Communications function and click the **Connect** button.
3. At the Connect screen, check that the control's MAC address is entered and the TCP/IP checkbox is checked.
4. Click **Connect**. The Internet connection to the control is made automatically via AlarmNet.
5. Once connected, use the Compass downloading software as normal to perform upload/download functions.

## AVS System Enable and Quick Programming Commands

Applies to an AVS system using an ECP connection to the control.

1. Install the AVS module according to its instructions.
2. Use one of the control's AVS Quick Program commands as follows (see Quick Program Command Results below for results of each command):
  - **installer code + [#] + 0 + 3:** enable AVS operation without panel sounds on the AVST speaker
  - **installer code + [#] + 0 + 4:** enable AVS operation and enable panel sounds on the AVST speaker
3. Use data field \*55 Dynamic Signaling Priority to enable the reporting path for AAV communication.
4. To undo the Quick Command programming, use the following commands:
  - **installer code + [#] + 0 + 5:** remove all options set by [#] + 03 quick command
  - **installer code + [#] + 0 + 6:** remove all options set by [#] + 04 quick command





**\*56 ZONE PROGRAMMING WORKSHEET** [default shown in brackets]

Zone	Zn Type	Part.	Report	Hardwire Type	Resp. Time	Location	
1	[09]	[1]		[EOL]	[1]		
2	[01]	[1]		[EOL]	[1]		
3	[03]	[1]		[EOL]	[1]		
4	[03]	[1]		[EOL]	[1]		
5	[03]	[1]		[EOL]	[1]		
6	[03]	[1]		[EOL]	[1]		
7	[03]	[1]		[EOL]	[1]		
8	[03]	[1]		[EOL]	[1]		
Zone	Zn Type	Part.	Report	Input Type	Loop	Serial No.	Location
9		[1]		[RF]			
10		[1]		[RF]			
11		[1]		[RF]			
12		[1]		[RF]			
13		[1]		[RF]			
14		[1]		[RF]			
15		[1]		[RF]			
16		[1]		[RF]			
17		[1]		[RF]			
18		[1]		[RF]			
19		[1]		[RF]			
20		[1]		[RF]			
21		[1]		[RF]			
22		[1]		[RF]			
23		[1]		[RF]			
24		[1]		[RF]			
25		[1]		[RF]			
26		[1]		[RF]			
27		[1]		[RF]			
28		[1]		[RF]			
29		[1]		[RF]			
30		[1]		[RF]			
31		[1]		[RF]			
32		[1]		[RF]			
33		[1]		[RF]			
34		[1]		[RF]			
35		[1]		[RF]			
36		[1]		[RF]			
37		[1]		[RF]			
38		[1]		[RF]			
39		[1]		[RF]			
40		[1]		[RF]			
41		[1]		[RF]			
42		[1]		[RF]			
43		[1]		[RF]			
44		[1]		[RF]			
45		[1]		[RF]			
46		[1]		[RF]			
47		[1]		[RF]			
48		[1]		[RF]			
49		[1]		[BR]			
50		[1]		[BR]			
51		[1]		[BR]			
52		[1]		[BR]			
53		[1]		[BR]			
54		[1]		[BR]			
55		[1]		[BR]			
56		[1]		[BR]			
57		[1]		[BR]			
58		[1]		[BR]			
59		[1]		[BR]			
60		[1]		[BR]			
61		[1]		[BR]			
62		[1]		[BR]			
63		[1]		[BR]			
64		[1]		[BR]			
95	[00]	N/A**		N/A	N/A	N/A	keypad [1] / [*]
96	[00]	N/A**		N/A	N/A	N/A	keypad [3] / [#]
99	[06]	N/A**		N/A	N/A	N/A	keypad [*] / [#]

**NOTES:**  
 Zone Type: see chart in \*56 Zone Programming Menu mode section.  
 Report Code: enabled if first digit is a non-zero number  
 Hardwire Type (zns 2-8):  
 0 = EOL    3 = ZD  
 1 = NC     4 = DB  
 2 = NO  
 Input Type:  
 2 = AW (zones 9-48)  
 3 = RF (zones 9-48)  
 4 = UR (zones 9-48)  
 5 = BR (zones 49-64)  
**NOTE:** Zones 9-16 not available if zone doubling enabled.  
 Response Time:  
 0 = 10msec  
 1 = 350msec  
 2 = 700msec  
 3 = 1.2 sec  
**Reserved Zones**  
 91 = addressable device report enable/disable default zone type = [05].  
 92 = Duress report enable/disable

\*\* Emergency key zones 95, 96, and 99 report the partition of the keypad used to activate the emergency zones.

**\*57 FUNCTION KEY WORKSHEET**

Option	Function	A			B			C			D			Comments
		P1	P2	com	P1	P2	com	P1	P2	com	P1	P2	com	
01	Paging													
02	Time Display													
03	Arm AWAY													
04	Arm STAY													
05	Arm NIGHT-STAY													
06	Step Arming													
07	Device Activation													Device:
08	Comm. Test													
09	Macro Key 1													Assign each macro key to only a single partition. †
10	Macro Key 2													Assign each macro key to only a single partition. †
11	Macro Key 3													Assign each macro key to only a single partition. †
12	Macro Key 4													Assign each macro key to only a single partition. †
00	Emergency Keys:	zone 95			zone 99			zone 96			paging			
	Personal Emergency													n/a
	Silent Alarm													n/a
	Audible Alarm													n/a
	Fire													n/a

Emergency Keys: A = paired keys [1] / [\*] (zone 95); B = paired keys [\*] / [#] (zone 99); C = paired keys [3] / [#] (zone 96)  
 † There are only four macros system-wide.

**OUTPUT RELAYS/POWERLINE CARRIER (X-10) DEVICES WORKSHEET FOR \*79, \*80 and \*81.**

Applicable only if Relays and/or Powerline Carrier Devices are to be used.

**\*79 RELAY/POWERLINE CARRIER (X-10) DEVICE MAPPING (Must program before using \*80)**

Output No.	OUTPUT TYPE				Description
	Module Addr.	Relay Pos (1-4)	X10 Unit No.		
01					
02					
03					
04					
05					
06					
07					
08					

Output No.	OUTPUT TYPE				Description
	Module Addr.	Relay Pos (1-4)	X10 Unit No.		
09					
10					
11					
12					
13					
14					
15					
16					
17		On-Board Trigger 1			norm output =
18		On-Board Trigger 2			norm output =

**\*81 ZONE LISTS WORKSHEET**

Fill in the required data on the worksheet below and follow the procedure in the installation manual as you enter the data during the displays and prompts that appear in sequence.

**NOTE:** Record desired zone numbers below, noting that a list may include *any* or *all* of system's zone numbers.

List No.	Used For...	Contains These Zones...
01	General Purpose (GP)	
02	General Purpose	
03	Chime-by-Zone or GP	(see field *26 for Chime-by-Zone option)
04	Cross Zones or GP	(see field *85 for Cross Zone Timer option)
05	Night-Stay Zones or GP	
06	Dial Delay Disable or GP	V21iPSIA: see field *50 for Dial Delay Disable option
07	Unlimited Reports or GP	V21iPSIA: see field *93 for Unlimited Reports option
08	General Purpose	
09	Zones activating pager 1	
10	Zones activating pager 2	
11	Zones activating pager 3	
12	Zones activating pager 4	

**\*80 OUTPUT DEFINITIONS**

Fill in the required data on the worksheet below and follow the programming procedure in the installation manual as you enter the data during the displays and prompts that appear in sequence.

- Notes:** 1. For Relays, 4229 and 4204 devices are programmed in \*79, \*80, and \*81 modes.  
 2. For Powerline Carrier devices (plcd), field \*27 must be programmed with a House Code.  
 3. Tamperers of expansion units cannot be used to operate devices.

Output Function Number (1-48)	Activation Type and Detail				Partition Number (P) (if using ZT trig) 0 = any 1 = partition 1 2 = partition 2 3 = common	Event (for zone list/activated by)		Action 0 = off 1 = close 2 secs 2 = stay closed 3 = pulse 4 = toggle 5 = duration 1†† 6 = duration 2††	Output Number 1-18	Device Type R = relay T = trigger X = X10
	Activated by 0=delete 1=zn list 2=zn type 3=zn no.	Zone List (ZL) 1-8 = list	Zone Type (ZT) (see table below)	Zone No. (ZN) 00=none 01-64		By Zone List	By Zone No.			
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
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46										
47										
48										

**ZONE TYPE/SYSTEM OPERATION – Choices for Zone Types are:**

- |                        |                              |                          |                       |
|------------------------|------------------------------|--------------------------|-----------------------|
| 00 = Not Used          | 05 = Trouble Day/Alarm Night | 10 = Interior w/Delay    | 24 = Silent Burglary  |
| 01 = Entry/Exit#1      | 06 = 24 Hr Silent            | 12 = Monitor Zone        | 77 = Keypad           |
| 02 = Entry/Exit#2      | 07 = 24 Hr Audible           | 14 = Carbon Monoxide§§   | 81 = AAV Monitor Zone |
| 03 = Perimeter         | 08 = 24 Hr Aux               | 16 = Fire w/Verification | 90-91 = Configurable  |
| 04 = Interior Follower | 09 = Fire                    | 23 = No Alarm Response   |                       |

§§ when used with an output function, the carbon monoxide zone type activates only upon CO alarms. Does not activate for trouble conditions.

**Choices for System Operation are:**

- |                             |                            |                               |
|-----------------------------|----------------------------|-------------------------------|
| 20 = Arming–Stay            | 38 = Chime                 | 58 = Duress                   |
| 21 = Arming–Away            | 39 = Any Fire Alarm        | 60 = AAV Trigger              |
| 22 = Disarming (Code + OFF) | 40 = Bypassing             | 61 = AVS/GSMV session begin § |
| 31 = End of Exit Time       | 41 = **AC Power Failure    | 62 = AVS/GSMV session end §   |
| 32 = Start of Entry Time    | 42 = **System Battery Low  | 66 = Function key†            |
| 33 = Any Burglary Alarm     | 43 = Communication Failure | 67 = Bell Failure             |
| 36 = **At Bell Timeout***   | 52 = Kissoff               | 68 = TELCO Line Fault         |
|                             | 54 = Fire Zone Reset       | 78 = Keypad red LED†††        |
|                             |                            | 79 = Keypad green LED†††      |

**Note:** In normal operation mode:  
 Code + # + 7 + NN Key Entry **starts** Device  
 Code + # + 8 + NN Key Entry **stops** Device

\*\* Use 0 (any) for Partition No. (P) entry.  
 \*\*\* Or at Disarming, whichever occurs earlier.  
 † Use \*57 Menu mode to assign the function key.  
 †† Duration is set in program field \*177.  
 ††† Device action not used for these choices.  
 § automatically set when appropriate AVS Quick Command performed.

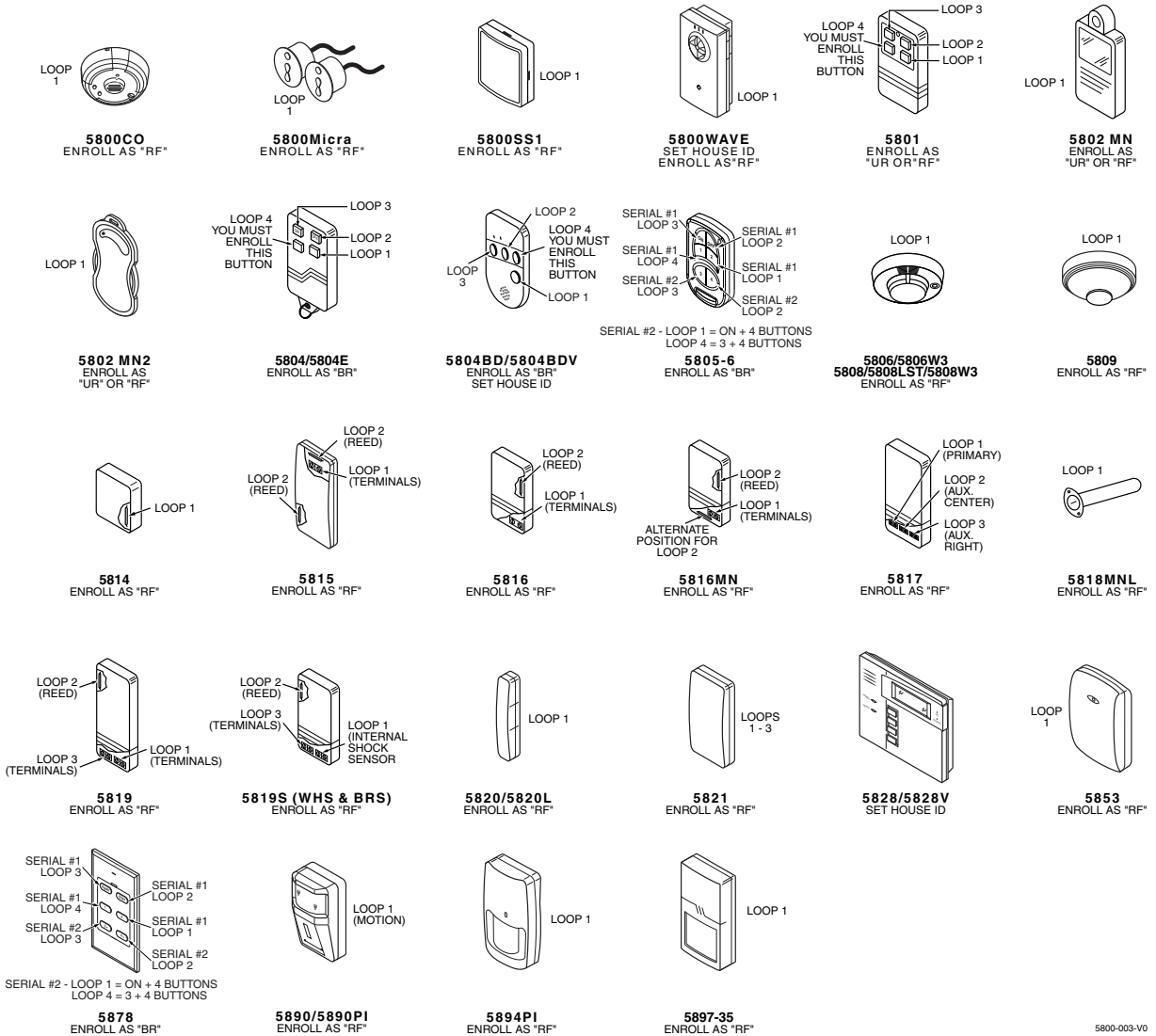
## 5800 Series Transmitter Input Loop Identification

All of the transmitters illustrated have one or more unique factory assigned input (loop) ID numbers. Each of the inputs requires its own programming zone (e.g., a 5804's four inputs require four programming zones).

For information on any transmitter not shown, refer to the instructions accompanying that transmitter for details regarding loop numbers, etc.

**UL NOTE:** The following transmitters are not intended for use in UL installations: 5802MN, 5802MN2, 5804, 5804BD, 5814, 5816TEMP, 5819, 5819WHS & BRS, and 5850.

The 5827BD and 5800TM can be used in UL Listed Residential Burglar installations.



5800-003-V0

## UL NOTICES

1. Entry Delay No. 1 and No. 2 (fields \*35, \*36) cannot be greater than 30 seconds for UL Residential Burglar Alarm installations, and entry delay plus dial delay should not exceed 1 minute. For UL Commercial Burglar Alarm installations, total entry delay may not exceed 45 seconds.
2. For UL Commercial Burglar Alarm and UL Residential Burglar Alarm installations with line security, total exit delay time must not exceed 60 seconds. For UL Burglar Alarm installations without line security, total exit delay time must not exceed 120 seconds.
3. The maximum number of reports per armed period (field \*93) must be set to "0" (unlimited) for UL installations.
4. Periodic testing (see scheduling mode) must be at least every 24 hours.
5. Alarm Sounder plus Auxiliary Power currents must not exceed 600mA total for UL installations (Aux power 500mA max.).
6. All partitions must be owned and managed by the same person(s).
7. All partitions must be part of one building at one street address.
8. If used, the audible alarm device(s) must be placed where it/they can be heard by all partitions.
9. For UL commercial burglar alarm installations the control unit must be protected from unauthorized access. The tamper switch installed to protect the control unit enclosure door is suitable for this purpose.
10. Remote downloading without an alarm company technician on-site (unattended downloading) is not permissible for UL installations.
11. Auto-disarming is not a UL Listed feature.
12. As SIA limits for delay of alarm reporting and sounding can exceed UL limits for commercial and residential applications, the following UL requirements per UL681 are provided:  
The maximum time that a control unit shall be programmed to delay the transmission of a signal to a remote monitoring location, or to delay the energizing of a local alarm sounding device to permit the alarm system user to enter and disarm the system, or to arm the system and exit shall not exceed:
  - a) 60 seconds for a system with standard line security or encrypted line security,
  - b) 120 seconds for a system without standard line security or encrypted line security, or
  - c) 120 seconds for a system that does not transmit an alarm signal to a remote monitoring location.
13. This control is not intended for bank safe and vault applications.

## SIA Quick Reference Guide

1. \*31 Single Alarm Sounding per Zone: If "0" selected, "alarm sounding per zone" will be the same as the "number of reports in armed period" set in field \*93 (1 if one report, 2 if 2 reports, unlimited for zones in zone list 7).
2. \*34 Exit Delay: Minimum exit delay is 45 seconds.
3. \*35/\*36 Entry Delay 1 and 2: Minimum entry delay is 30 seconds.
4. \*37 Audible Exit Warning: Feature always enabled; field does not exist.
5. \*39 Power Up in Previous State: Must be "1," power up in previous state.
6. \*40 PABX Access Code or Call Waiting Disable: If call waiting is used, call waiting disable option in field \*91 must be set.
7. \*50 Burglary Dial Delay: Delay must be minimum of 30 seconds.
8. \*59 Exit Error Alarm Report Code: Always enabled.
9. \*68 Cancel Report Code: Default is "code enabled."
10. \*69 Recent Closing Report Code: Always enabled.
11. \*91 Option Selection: Exit Delay option should be enabled. If call waiting is used, Call Waiting Disable must be set to "1" (enabled).
12. \*93 No. reports in Armed Period: Must be set for 1 or 2 report pairs.
13. Cross zone timer programming is set in field \*85; cross zone pairs are assigned in zone list 4 using \*81 Zone List mode.
14. Duress code is assigned by using the "add a user code" procedure found in the User Guide. Enable Duress code reporting by programming zone 92 using \*56 Zone Programming mode.
15. Fire alarm verification is a built-in system feature when a zone is programmed for zone type 16.

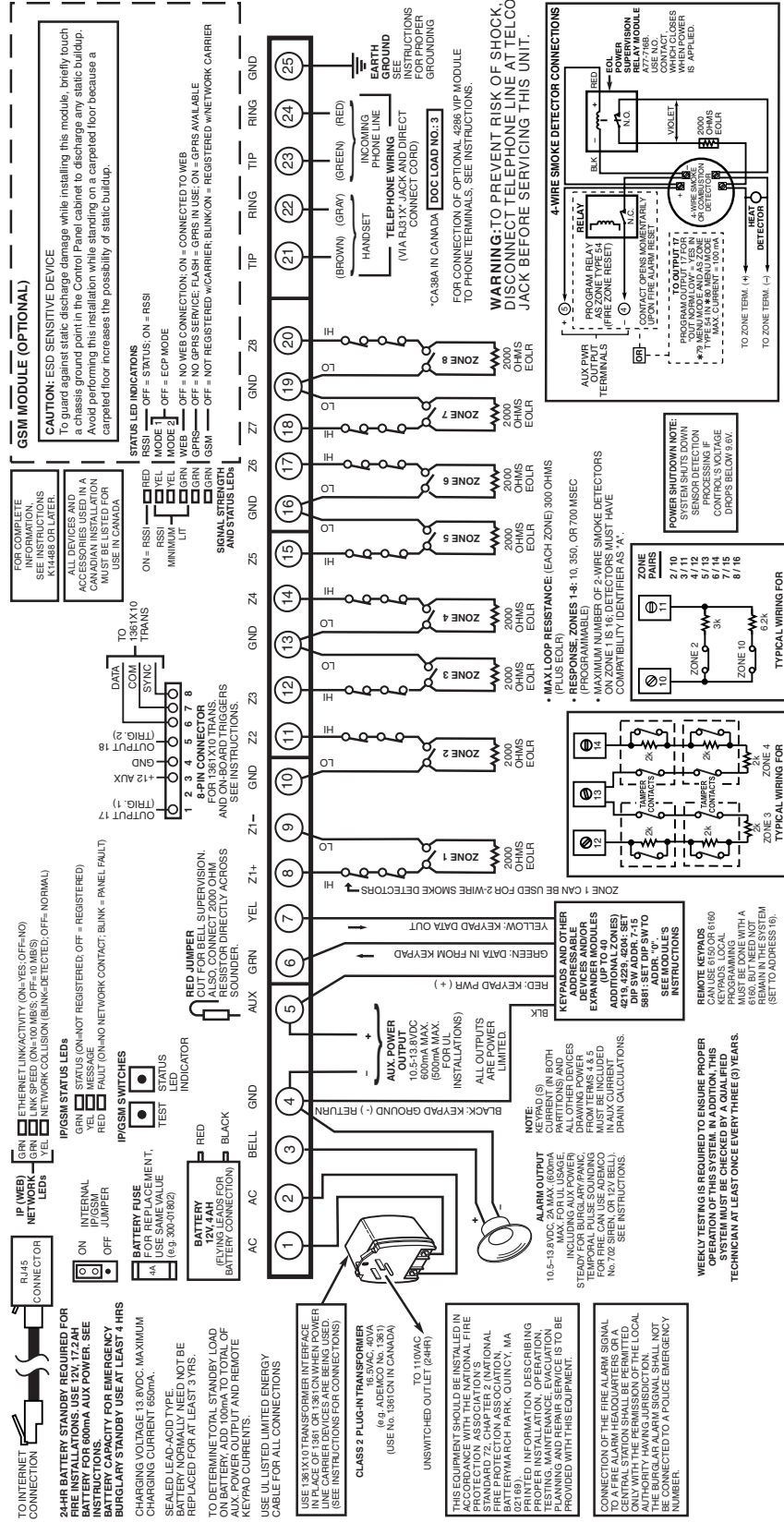
## TABLE OF DEVICE ADDRESSES

This Device	Uses Address	Reports as ††	Enabled By...
RF Receiver	00	100	*56 zone programming: input device type entry
AUI 1 (touchscreen)	01	n/a	automatic if AUI enable field *189 enabled for AUI 1
AUI 2 (touchscreen)	02	n/a	automatic if AUI enable field *189 enabled for AUI 2
AUI 3 (touchscreen)	05	n/a	automatic if AUI enable field *189 enabled for AUI 3
AUI 4 (touchscreen)	06	n/a	automatic if AUI enable field *189 enabled for AUI 4
Internal IP/GSM Device	03	103	automatic if installed and enabled in menu mode *29
4286 Voice Module	04	104	automatic if phone module access code field *28 enabled
Zone Expanders (4219/4229): module 1 (for zones 09 - 16) module 2 (for zones 17 - 24) module 3 (for zones 25 - 32) module 4 zones 33 - 40 module 5 zones 41 - 48	07 08 09 10 11	107 108 109 110 111	*56 zone programming: input device type entry, then: automatic if zone no. 9-16 entered as AW type or relay assigned automatic if zone no. 17-24 entered as AW type or relay assigned automatic if zone no. 25-32 entered as AW type or relay assigned automatic if zone no. 33-40 entered as AW type or relay assigned automatic if zone no. 41-48 entered as AW type or relay assigned
Relay Modules (4204): module 1 module 2 module 3 module 4	12 13 14 15	112 113 114 115	*79 output device programming: device address prompt: entered at device address prompt entered at device address prompt entered at device address prompt entered at device address prompt
Keypads: keypad 1 keypad 2 keypad 3 keypad 4 keypad 5 keypad 6 keypad 7 keypad 8	16 17 18 19 20 21 22 23	n/a n/a n/a n/a n/a n/a n/a n/a	data field programming as listed below: always enabled, all sounds enabled. data field *190 data field *191 data field *192 data field *193 data field *194 data field *195 data field *196
5800TM Module	28	n/a	automatic

†† Addressable devices are identified by "1" plus the device address when reporting. Enter report code for zone 91 to enable addressable device reporting (default = reports enabled). See field \*199 for addressable device (ECP) 3-digit/2-digit identification keypad display options.



K14488PRV2 6/09 Rev. A



**ADECO VISTA-21IP / VISTA-21IPSA SUMMARY OF CONNECTIONS**

ASSEMBLED IN MEXICO

COMPLIES WITH FCC RULES, PART 68. FCC REGISTRATION NO. 58BUS4-4003-ALE RINGER EQUIVALENCE: 0.1 B.

V21IPSA-SOC-V2



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