This control is a certified SIA-compliant control that meets SIA specifications for False Alarm Reduction.
TO THE INSTALLER:
To install the 320P1, follow the installation instructions for the VISTA-20PSIA as described in the Installation and Setup Guide and use this custom 320P1 Programming Guide when programming the control, noting the following:

- The 320P1 supports up to four (4) touch screen devices (see field *189 for programming information).
- The 320P1 supports Upload/Download via the Internet/Intranet when used with an appropriate communications device (i.e., long range radio). **UL NOTE:** Uploading/Downloading via the Internet has not been evaluated by UL.
- The Real-Time Clock must be set before the end of the installation. See Setting Real-Time Clock section.

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**SETTING THE REAL-TIME CLOCK**

**IMPORTANT:** The Real-Time Clock must be set before the end of the installation.

**NOTE:** All partitions must be disarmed before the date/time can be set.

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.
   - Enter the 2-digit minute setting.
   - Enter the last two digits of the current year.
   - Enter the 2-digit month setting.
   - Enter the 2-digit day setting.

3. To exit, press [*] when cursor is at the last digit, or wait 30 seconds.
**IMPORTANT:** The Real-Time Clock must be set before the end of the installation. See procedure in the Setting the Real-Time Clock section on the previous page.
**DATA FIELD PROGRAMMING FORM**

Entry of a number other than one specified will give unpredictable results. Values shown in brackets are factory defaults.

**SIA Installations:** The 320P1 is a certified SIA-compliant control that meets SIA specifications for False Alarm Reduction. Fields marked with heavy borders are related to SIA requirements and have entries or operation different than non SIA-compliant controls.

### 20 Dealer Installer Code [4112] [ ] [ ] [ ]

4 digits, 0000–9999

The Installer Code is used to assign the 4-digit Master Security Code. The Installer Code can perform all system functions except it cannot disarm the system unless it was used to arm the system. For security purposes, the factory default installer code should be changed.

### 21 Quick Arm Enable [1,1] [ ] [ ]

0 = no; 1 = yes

If enabled, users can press the [#] followed by an arming key to arm the system instead of using a security code. The security code is always needed to disarm the system.

### 22 RF Jam Option [0] [ ]

0 = no RF Jam detection
1 = send RF Jam report

If enabled, a report is sent if the system detects an RF jamming signal.

**UL:** must be 1 if wireless devices are used.

### 23 Quick (Forced) Bypass [0,0] [ ] [ ]

0 = no quick bypass [UL: must be “0”]
1 = allow quick bypass (code + [#] + [#])

Zones bypassed by this function will be displayed after the bypass is initiated.

### 24 RF House ID Code [00,00,00] [ ] [ ] [ ]

00 = disable wireless keypad usage

Part. 1 Part. 2 Common

01–31 = using 5827, 5827BD or 5804BD keypad

The House ID identifies receivers and wireless keypads. If a 5827 or 5827BD Wireless Keypad or 5804BD Transmitter is being used, a House ID code must be entered and the keypad set to the same House ID. You can assign RF house ID for each partition.

### 25 Chime By Zone / KP (Keypad) Sound Enables [4, 7] [ ] [ ]

**Entry 1**

0 = no “entry 1” keypad trouble sounds, AND no chime by zone (keypad chimes on fault of any entry/exit or perimeter zone when chime mode is on)
1 = Chime by Zone enabled (list chime zones on zone list 3 using “*81 Menu mode"

**Entry 2**

0 = no “entry 2” keypad trouble sounds
1 = RF Supervision enabled
2 = RF Low Battery enabled
4 = RF Jam enabled

7 = select all entry 2 options

For each entry, enter the sum of the desired options. Example: Entry 1: for Chime by Zone and System Low Battery sounding, enter 5. To enable all options, enter 7.

Keypad (KP) Trouble Sounding can be enabled/disabled for the conditions listed in each entry.

### 26 Powerline Carrier Device (X–10) [0] [ ]

**House Code**

0 = A; 1 = B; 2 = C; 3 = D; 4 = E; 5 = F; 6 = G; 7 = H; 8 = I; 9 = J; 10 = K; 11 = L; 12 = M; 13 = N; 14 = O; 15 = P

Powerline Carrier devices require a House ID, identified in this field. Program Powerline Carrier devices in interactive modes =79, *80 and *81.

**UL:** not for fire or UL installations.

### 27 Access Code For Phone Module [00] [ ]

00 = disable; (Partition 1 only)

1st digit: enter 1–9; 2nd digit: enter # + 11 for “*”; or + 12 for “#”;

You must assign a 2-digit access code for the 4286 Phone Module, if used. Example: If desired access code is 7*, then 7 is the first entry, and [#] + 11 for “*” is the second entry.

**NOTE:** A 0 in either digit disables the phone module.

**UL:** must be “00” for UL Commercial Burg. installations

### 28 Enable IP/GSM – Communication Device Menu Mode (pass-through programming)

This is a Menu Mode command, not a data field, for programming IP/GSM communication device options. See <29 Menu Mode section later in this document.

### 29 Single Alarm Sounding Per Zone [1] [ ]

0 = “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)

**UL:** must be “0”

SIA: Must be “0” if “93 Reports in Armed Period is set to “2” report pairs.

1 = one alarm sounding per zone

If enabled, limits alarm sounding on the bell output to once per zone per armed period.

### 30 Fire Alarm Sounder Timeout [1] [ ]

0 = sound stops at timeout selected in field “33;
1 = no timeout; sounds until manually turned off

This control complies with NFPA requirements for temporal pulse sounding of fire notification appliances. Temporal pulse sounding for a fire alarm consists of the following: 3 pulses – pause – 3 pulses – pause – 3 pulses.

**UL:** must be “1” for fire install

### 31 Alarm Sounder (Bell) Timeout [1] [ ]

0 = none; 1 = 4 min; 2 = 8 min; 3 =12 min; 4 = 16 min;

This field determines whether the external sounder will shut off after time allotted, or continue until manually turned off.

**UL:** For residential fire alarm installation, must be set for a minimum of 4 min (option 1); for UL Commercial Burglary installations, must be minimum 16 min (option 4)

### 32 Exit Delay [60,60] [ ] [ ]

45 - 96 = 45 - 96 secs; 97 = 120 secs

**NOTE:** Entries less than 45 will result in a 45-second delay.

The system waits the time entered before allowing an entry/exit zone. If the entry/exit door is left open after this time expires, an alarm will occur.

**UL installations:** For UL Commercial Burglar Alarm and UL Residential Burglar Alarm installations with line security, total exit time must not exceed 60 seconds.

Common zones use partition 1 delay.

### 33 Entry Delay #1 [30,30] [ ] [ ]

30 - 96 = 30 - 96 seconds

97 = 120 secs; 98 = 180 secs; 99 = 240 secs

Upon entering, the system must be disarmed before the time entered expires, otherwise it sounds an alarm.

**NOTE:** Entries less than 30 will result in a 30-second delay.

Common zones use same delay as partition 1.

For UL Residential Burglary Alarm installations, must be set for a maximum of 30 seconds; entry delay plus dial delay should not exceed 1 min. For UL Commercial Burglar Alarm, total entry delay may not exceed 45 seconds.
NOTE:

|   |   |   /   |   |   |   |   |
|   |   |   /   |   |   |   |   |

as the first digit of a 4-digit account number for Nos. 0000–0999. Exit digit account number (for 3+1 dialer reporting format) is used. Enter 0 for D; #+14 for E; #+15 for F. Enter

2. Using Call Waiting Disable on a non-call waiting line will remove the feature from all lines. Call Waiting Disable can be used on a call waiting line, but will only work on that line.

**Audible Exit Warning**

Feature always enabled; field removed in this control. Warning sound consists of slow continuous beeps until the last 10 seconds, and then it changes to fast beeps. Sound ends when exit time expires.

**Confirmation Of Arming Ding**

0 = no
1 = yes (wired keypads and RF)
2 = yes, RF only (except 5827, 5827BD)
Confirmed arming is 1/2-sec external sounder “ding.”

If 1 selected, ding occurs when closing report is sent if open/close reporting is enabled, or at the end of Exit Delay. If 2 selected, ding occurs upon reception of the wireless arming command.

**Power Up In Previous State**

Feature always enabled; field does not exist.

**PABX Access Code or Call Waiting Disable**

Enter up to 6 digits. To clear entries, press *40*. If call waiting is used, enter call waiting disable digits “*” (#+11) 70” plus “# + 13” (pause) and also set Call Waiting Disable option in field "91."

**Primary Phone No.**

Enter to up 20 digits. To clear entries, press *41* or *42* respectively.

**Secondary Phone No.**

**Partition 1 Primary Acct. No.**

[FFFFFFFFFFFF] Enter 4 or 10 digits, as selected in “48 Report Format. See box above."

To clear, press "43."

**Part. 1 Secondary Acct. No.** (see field "43 for entries)

[FFFFFFFFFFFF] To clear, press "44."

**Partition 2 Primary Acct. No.** (see field "43 for entries)

[FFFFFFFFFFFF] To clear, press "45."

**Partition 2 Secondary Acct. No.** (see field "43 for entries)

[FFFFFFFFFFFF] To clear, press "46."

**Phone System Select**

If Cent. Sta. is not on a WATS line:
0 = Pulse Dial; 1 = Tone Dial
If Cent. Sta. is on a WATS line:
2 = Pulse Dial; 3 = Tone Dial
Select the type of phone service for the installation.

**Report Format**

0 = 3+1, 4+1 ADEMCO L/S STANDARD primary secondary
1 = 3+1, 4+1 RADIONICS STANDARD
2 = 4+2 ADEMCO L/S STANDARD
3 = 4+2 RADIONICS STANDARD
5 = 10-digit ADEMCO CONTACT ID® REPORTING
6 = 4+2 ADEMCO EXPRESS
7 = 4-digit ADEMCO CONTACT ID® REPORTING
8 = 3+1, 4+1 ADEMCO L/S EXPANDED
9 = 3+1, 4+1 RADIONICS EXPANDED
Select the format for primary/secondary phone numbers

**Split/Dual Reporting**

0 = Standard/setup reporting only (all to primary)
Primary Phone No. 2nd Phone No.
1 = Alarms, Restore, Cancel Others
2 = All except Open/Close, Test All
3 = Alarms, Restore, Cancel All
4 = All except Open/Close, Test All
5 = All
Backup Reporting: All reports are sent only to the primary number unless unsuccessful after 8 attempts. If unsuccessful, the system will make up to 8 attempts to send all reports to the secondary number. If still unsuccessful after the 16 attempts, the system displays the “COMM. FAILURE” message (FC for fixed-word displays).

**Burglary Dialer Delay**

Delay Time:
1 = 15 seconds
2 = 30 seconds
3 = 45 seconds
Provides delay of “BURGLARY ALARM” report to the central station, which allows time for the subscriber to avoid a false alarm transmission. This delay does not apply to zone type 24 alarms (silent burglary) or to 24-hour zone types 6, 7, and 8 (silent panic, audible alarm, auxiliary alarm), which are always sent as soon as they occur.

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 need dial delay to be disabled; these zones ignore 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.

**SESOCO/Radionics Select**

0 = Radionics (0-9, B-F); enter “0” for all non-SESOCO formats
1 = SESOCO (0-9 only reporting)

**Dynamic Signaling Delay**

Select delay from 0 to 225 seconds, in 15-second increments.
0 = no delay (both signals sent); 1 = 15 secs; 2 = 30 secs, etc.
Intended for reporting via a communication device on the ECP bus (LRR). This field lets you select the time the panel should wait for acknowledgment from the first reporting destination (see +55) before it attempts to send a message to the second destination. Delays can be selected from 0 to 225 seconds, in 15-second increments. This delay is per message. If 0 is entered in this field, the control panel will send redundant reports to both Primary Dialer and LRR.

UL: If using line security, must be 0. Reports will be sent to both the dialer and the communication device.
Dynamic Signaling Priority /

AAV Path Select

0 = Communication Device (LRR) first / AAV via phone line
1 = Communication Device (LRR) first / AAV via communication device path (see AAV Path Select paragraph below)

This field selects the primary communication path for reporting (dialer or communication device) of primary phone number events* (see +49 Split/Dual Reporting) and selects the communication path used for AAV sessions (phone line or communication device path). Use +29 IP/GSM menu mode to enable the communication device being used.

† Reports intended for the secondary phone number are not sent via the communication device.

For Dynamic Signaling Priority:
Select the initial reporting destination for messages as follows:
Primary Dialer First selected (0):
• If acknowledged before delay expires (see +54), then message will not be sent via LRR.
• If not acknowledged before delay expires, message is sent to both the Primary Phone No. and via LRR.
Communication Device (LRR) First selected (1):
• If acknowledged before delay expires, then message will not be sent to the primary dialer.
• If not acknowledged before delay expires, message is sent to both the Primary Phone No. and via LRR.

For AAV Path Select:
• If using the UVS system or AVS system with non-ECP connection, option 0 must always be used.
• If using the AVS system with ECP connection, either option (0 or 1) may be used, but note the following:

IMPORTANT: If option “1” is selected, a 2-way voice (AAV) device compatible with the communication device path must be used (ex. GSMV communicator). When selected, AAV sessions always occur via the GSMV communicator, even if reporting reverts to phone line backup due to GSMV communicator path reporting failure.

For UL Commercial Burglary installations that use a DACT and LRR, this field must be “0”.

System Status Report Codes (59–68)

Exit Error Alarm Report Code

[SIA NOTE: Always enabled. Sends both exit error and zone alarm reports in the event of an exit error condition. Also see field *69.
After arming the system, entry/exit and interior zones remaining open after exit delay expires cause an alarm sound at the keypad and external sounder (keypad also displays “EXIT ALARM”), and entry delay begins. Disarming before the end of the entry delay stops the alarm sounding and no message is sent to the central station. The keypad will display “CA” (fixed-word) or “ALARM CANCELED” (alpha display). If the system is not disarmed before entry delay expires, an “EXIT ALARM” message and zone alarm message will be sent to the central station. The keypad will display “EA” (fixed-word) or “EXIT ALARM” (alpha display), and alarm sounding continues until the system is disarmed (or timeout occurs). An Exit Alarm condition will also result if a fault occurs in an exit or interior zone within 2 minutes following the end of the exit delay, and an “EXIT ALARM” message will be sent to the central station (also see field *69 Recent Closing report). With Contact ID format, the message will contain the zone number and error code 374 (“ALARM–EXIT ERROR”).]

Trouble Report Code

Sent if a zone has a trouble condition.
See UL System Reporting Note above *59.

Bypass Report Code

Sent when a zone is manually bypassed.
See UL System Reporting Note above *59.

AC Loss Report Code

Timing of this report is random with up to a 4-hour delay. If AC restores before the report goes out, there is no “AC LOSS” report.
See UL System Reporting Note above *59.

Low Bat Report Code

Sent when the system’s backup battery has a low-battery condition.
See UL System Reporting Note above *59.

Test Report Code

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:
See System Reporting UL Note above *59.

† NOTE: Make sure the Real-Time Clock is set to the proper time before entering the test report schedule command to ensure that test reports are sent when expected. (See Setting the Real-Time Clock section)

Open Report Code

Sent upon disarming the system in the selected partitions.
See UL System Reporting Note above *59.

Arm Away/Stay Rpt Code

This option allows for independent programming of Away and Stay reports for each partition, including the common lobby.
NOTE: “OPEN” reports are not sent if the associated closing report is not enabled.

RF Trans. Low Bat Report Code

Sent when a transmitter low-battery condition exists.
UL: must be enabled if wireless devices are used.
**Recent Closing Report Code** ([11])

SIA NOTE: Always enabled. Sends both recent closing and zone alarm reports if fault occurs within 2 min. after exit time expires. Also see field *59.

Similar to the Exit Error condition described in field *59, but occurs if any burglary zone is faulted within two minutes after the initial exit delay expires. Disarming the system within the two minutes stops the alarm sound and displays “ALARMA CANCELED” or “CA” and faulted zone number. No message is sent to the Central Monitoring Station.

If the system is not disarmed within two minutes, the alarm sound continues and a “recent closing” and a “zone alarm” message are sent to the Central Monitoring Station after dial delay expires.

**Restore Report Codes (70 – 76)**

**Alarm Restore Rpt Code** ([0])

NOTE: Alarm restore signals indicate that respective alarm zone(s) are not faulted. Alarm restore reports are sent to the central station at bell timeout (field *33), if the zone(s) in alarm are actually restored to a non-faulted state at that time. Otherwise, alarm restore report(s) for respective alarm zones are sent when the system is disarmed.

If Reports Per Armed Period Per Zone (*93) is also programmed, the system will report alarm and restore codes as described above until the “Reports Per Armed Period” count is reached. Disarming and rearming will reset the “Reports Per Armed Period” count.

**Trouble Restore Rpt Code** ([00])

Sent when a trouble in a zone is restored and code + OFF performed. See UL System Reporting Note above *59.

**Bypass Restore Rpt Code** ([00])

Sent when a zone that has been bypassed is unbypassed. See UL System Reporting Note above *59.

**AC Restore Rpt Code** ([00])

Sent after AC power has been restored after an AC power outage. See UL System Reporting Note above *59.

**Low Bat Restore Rpt Code** ([10])

Sent after a system low-battery condition is restored to normal. See UL System Reporting Note above *59.

**RF Trans. Lo Bat Rst Rpt Code** ([00])

Sent when a transmitter’s low battery condition is restored (i.e., new battery installed).

UL: must be enabled if wireless devices are used. See UL System Reporting Note above *59.

**Test Restore Rpt Code** ([00])

Sent when the Test mode is exited or upon timeout (4hrs). See UL System Reporting Note above *59.

**Output and System Setup (77 – 93)**

**Daylight Saving Time** ([3][11])

0 = Disabled
1-12 = January-September (1 = Jan, 2 = Feb, etc)
#0 = October; #11 = November; #12 = December

Enter the start and end month for daylight saving time, if applicable to the region.

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

**Cancel Verify Keypad Display** ([1])

0 = no “Alarm Canceled” display
1 = display “Alarm Canceled” as described below

This feature causes a “ALARMA CANCELED” display on the LCD keypad under the following conditions:

- After the kissoff of the cancel message to the Central Station, indicating a successful transmission.
- When an alarm is successfully canceled before the Central Station received the Alarm message. E.G., if an alarm is incorrectly triggered and the user presses code + OFF before the dial delay time has expired, the message will never go out to the CS.
- When the Cancel report is not enabled and the system is disarmed:
  a. before dialer delay expires (alarm report not sent) message “Alarm Canceled” is displayed.
  b. after dialer delay expires message “Alarm Canceled” is not displayed.

**Misc. Fault Delay Time** ([0])

(used with Configurable Zone Types “digit 6”)

0 = 15 seconds
1 = 30 seconds
2 = 45 seconds
3 = 60 seconds
4 = 90 seconds
5 = 2 minutes
#11 = 7 min

UL: must be enabled if wireless devices are used. See UL System Reporting Note above *59.

Used with zones assigned to a configurable zone type with fault delay on (configurable zone type digit “6”), and sets a zone response time of 15 seconds to 15 min. It can be set for zones with sensors that provide a trouble indication when an oil tank is low, or similar applications for critical condition monitoring where a non-alarm response is desired.
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 = lockout local programming after *98 exit (reenter by downloader only)

This table summarizes the Program Mode Lockout options:

<table>
<thead>
<tr>
<th>Exit Command</th>
<th>*98 Entry</th>
<th>Reentry By:</th>
<th>Power-up†</th>
<th>Downloader</th>
</tr>
</thead>
<tbody>
<tr>
<td>*99</td>
<td>n/a</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>*98</td>
<td>0</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>*98</td>
<td>1</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>*98</td>
<td>2</td>
<td>no</td>
<td>no</td>
<td>yes</td>
</tr>
</tbody>
</table>

† pressing [*] + [#] within 50 seconds of power up

Event Log Full Report Code [00] □ □
See box above field *59 for report code entries.
If an Event Logging selection is made in field *59, a message can be sent to the central station receiver when the log is 80% full. If the log becomes full, new messages overwrite the oldest messages in the log.

Event Log Enables [15] □ □
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.
This system can record up to 100 events in a history log. At any time, the downloader/operator can then upload the log and view or print out all or selected categories of the log or can clear the log. Event log can also be viewed at a alpha keypad. The display/printout at the central station will show the date, time, event, and description of the occurrences.

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

Option Selection / Remote [8, 0] □ □
Interactive Services (RIS) Enable 1 2
Entry 1: Options 0 None
1 = Bell Supervision Processing
4 = AAV UL: must use ADEMCO 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.
Entry 2: Call Waiting Disable / RIS Enable 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).
2 = RIS (Remote Interactive Services) enabled
3 = Call Waiting disable and RIS enabled

IMPORTANT: AAV should not be used when Paging or Alarm Reports are sent to a secondary number unless the monitoring zone option is used (which pauses calls).
Otherwise, the call to the secondary number by the communicator after the alarm report will prevent the AAV from taking control of the telephone line, and the AAV "Listen in" session cannot take place.

† “Exit Delay Restart/reset” option allows use of the [*] key to restart the exit delay at any time when the system is armed STAY or INSTANT. This feature also enables automatic exit delay reset, which resets exit delay if the entry/exit door is re-opened and closed before exit delay time expires after arming AWAY. Automatic Exit Delay Reset occurs only once during an armed AWAY period.

Remote Interactive Services (RIS) Enable: This option enables enhanced Remote Interactive Services (RIS), if supported by the communication service in use.

Phone Line Monitor Enable [0,0] □ □
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: Output Device must either be programmed to be STOPPED in field 80 or STOPPED by Code + # + 8 + output number.
Entry 1: Sets the length of time a phone line fault must remain after detected before the second digit option is activated.
Entry 2: Selects the desired phone line fault response.
Option 2 may be used even if a relay unit or Powerline carrier device is not connected to the control.
Programmed Output Device must either be programmed to be STOPPED in field 80 or STOPPED by entry of [security code] + [#] + 8 + device number. Partition in 80 should be set to "0", for STOP.

UL: Field *92 must be enabled for fire alarm installations, UL commercial burglar alarm installations and UL residential burglar alarm installations.
If the control unit is used on a UL commercial burglar alarm system which requires 2 methods of remote communication, then the control unit’s DACT and the other method of signal transmission must monitor each other against communication failure and line fault. The fault must be received and annunciacted within 200 seconds of its occurrence.

Reports in Armed Period [1,0] □ □
Per Zone (Swinger Suppression) Restrict Unlimited
Restrict Report Pairs: Report Pairs Reports
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)
Selection limits the number of alarm/alarm restore message pairs per zone sent to the CS in an armed period. Swinger suppression applies to burglary zones only.

Download Phone No. [1, 0] □ □
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: Up/downloading via phoneline may be performed only if a technician is at the site.
Up/downloading via the Internet has not been evaluated by UL.
Enter up to 20 digits. 0–9; #+11 = ‘*’; #+12 = ‘#’; #+13 = 2-sec pause
If entering fewer than 20 digits, exit by pressing [*] + next field number. To clear entries, press *160*
### Configurable Zone Type Options (*182*-*185)

- **Auto Restore** (entry 2): Faults on zones set for this option are cleared; restore messages sent upon restoral of faults.
- **Vent Zone** (entry 2): Zones set for this option are ignored if faulted when arming the system, but are protected if the zone is later restored (e.g., an open window can be ignored when arming, but if the window is later closed, it will be protected; opening the window again causes an alarm.)
- **Bypass Disarmed** (entry 4): Zones set for this option can be bypassed only while the system is disarmed.
- **Bypass Armed** (entry 4): Zones set for this option can be bypassed when the system is armed.
- **Dial Delay** (entry 6): Alarms on zones set for this option participate in dial delay central station reporting, if system dial delay enabled in field *50.*
- **Fault Delay** (entry 6): Faults on zones set for this option are delayed by the time set in field *87.* Do not use this option if using entry/exit delay for this zone type.
- **Faists Display** (entry 7): Selects how faults on zones set for this zone type are displayed.
- **Power Reset/Verification** (entry 7): Selects whether the system resets power (when user enters code + OFF), and whether the system performs alarm verification (see description for zone type 16 in Zone Type Definitions section) when a fault occurs on these zones.
- **Use Entry Delay** (entry 8): Selects whether to use the system's entry delay times.
- **Use Exit Delay** (entry 8): Selects whether to use the system's exit delay time.
- **Interior Type** (entry 8): Zones set for this option are treated same as standard zone type 4 (bypasses when armed STAY, faults displayed).
- **Alarm Sounds** (entry 9): Selects the type of alarms sound for zones set for this zone type.
- **Bell Timeout** (entry 9): Alarm sounding on zones set for this option remain for the duration set in fields *32 / *33.*
- **Fire Zone** (entry 9): Zones set for this option respond in the same manner as if programmed for zone type 9. Do not set fire zones to respond as a “fault” in entries 1-6.
- **Trouble Sounds** (entry 10): Selects the type of trouble sounds for zones set for this zone type (periodic beeps = once every 30 seconds; trouble beeps = rapid beeping).
- **Chime Enable** (entry 10): Zones set for this option cause a chime when Chime mode is on.

### Configure the Zone Type 90

![Configurable Zone Type Worksheet](image)

- **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).**
- **To calculate the value for each entry, add the values of the selected options in each of the entry’s columns shown in the respective chart (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).**
- **UL:** Do not configure zones as a fire alarm or UL burglar alarm zone.
### Zone Type 90 Report Codes

<table>
<thead>
<tr>
<th>90 ALARM ID: XXX</th>
<th>TROUBLE ID: XXX</th>
</tr>
</thead>
</table>

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. Press [*] when done to continue.

**NOTE:** Zone alarm report code (prompt in *56 Zone Programming) 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.

### Important Notice on Report Codes:
To avoid confusion at the central station, it is recommended that existing Contact ID® codes be used with configurable zone types whenever possible. Check with the central station for a complete list of Contact ID® report codes. If none of the codes are suitable, choose a code in the reserved range of 750-789 and make sure to define the code with your central station.

### Configurable Zone Type 91

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
</table>

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.

See *182 for entries.

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

### Zone Type 91 Report Codes

<table>
<thead>
<tr>
<th>91 ALARM ID: XXX</th>
<th>TROUBLE ID: XXX</th>
</tr>
</thead>
</table>

See *183 for entry information and note about report codes.

### AUI Device Enables (for Touchscreen Style Keypads)

<table>
<thead>
<tr>
<th>AUI 1</th>
<th>AUI 2</th>
<th>AUI 3</th>
<th>AUI 4</th>
</tr>
</thead>
</table>

System supports up to four touchscreen style keypads (e.g., Symphony Advanced User Interface, and 6270 Touchscreen Keypad).

**NOTE:** Use of touchscreen style keypads does not affect the number of standard keypads supported.

**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) use version 1.1.175 or higher.

To enable a touchscreen keypad, enter the option corresponding to each touchscreen’s home partition.

- **For Touchscreen device usage**
  - 0 = disable; 1 = partition 1; 2 = part. 2; 3 = part. 3 (common)

- **For Remote Services device usage**
  - 5 = part. 1 (auto-stay arm disabled)
  - 6 = part. 2 (auto-stay arm disabled)
  - 7 = part. 3 (common; auto-stay arm disabled)

**Note for Remote Services Devices:** If using the Remote Services feature of the communication device, select an option 5-7, depending on the partition the Remote Services device is associated with (these options automatically disable auto-stay arming when the system is armed from the respective Remote Services device). Refer to the communication device’s installation instructions for details on enabling the Remote Services feature.

**Device Addresses:**
- Touchscreen (AUI) device 1: Must set AUI device address to 1
- Touchscreen (AUI) device 2: Must set AUI device address to 2
- Touchscreen (AUI) device 3: Must set AUI device address to 5
- Touchscreen (AUI) device 4: Must set AUI device address to 6

### Keypad Options +190-+196

**To enable keypads:**
1. Set desired address at keypad (refer to keypad’s instructions for setting the address).
2. Use data fields *190-196 to enable keypad addresses, assign a partition, and enable sound options.
3. Use fields *197-199 and *199 to turn on partition number display, exit time interval display, and select fall display mode.
4. Set keypad-related data fields as appropriate: *21 Quick Arm Enable, *23 Forced Bypass, *84 Auto STAY Arm

**Notes:**
1. Options for keypad address 16 are set by the factory and cannot be changed.
2. Each keypad must be assigned a unique address. Keypads programmed with the same address will give unpredictable results.

### Keypad 2 Device Address 17

| [0] | [0] | [ ] | [ ] |

**Partition:**
- [Partition Sound]

Enter the desired option for the keypad’s home partition.

- **For Touchscreen device usage**
  - 0 = disable; 1 = partition 1; 2 = part. 2; 3 = part. 3 (common)

- **For Remote Services device usage**
  - 5 = part. 1 (auto-stay arm disabled)
  - 6 = part. 2 (auto-stay arm disabled)
  - 7 = part. 3 (common; auto-stay arm disabled)

**Sound:** Enter the desired sound option for this keypad.

- 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

**Note for Remote Services Devices:** If using the Remote Services feature of the communication device, select an option 5-7, depending on the partition the Remote Services device is associated with (these options automatically disable auto-stay arming when the system is armed from the respective Remote Services device). Refer to the communication device’s installation instructions for details on enabling the Remote Services feature.

### Keypad 3 Device Address 18

See field +190 for entries.

### Keypad 4 Device Address 19

See field +190 for entries.

### Keypad 5 Device Address 20

See field +190 for entries.

### Keypad 6 Device Address 21

See field +190 for entries.

### Keypad 7 Device Address 22

See field +190 for entries.

### Keypad 8 Device Address 23

See field +190 for entries.
Exit Time Display Interval [0]  
0 = no display; 1-5 = seconds between display refresh  
If enabled, keypads display the exit time remaining after  
arming the system, updated at the interval selected (i.e. if the  
exit delay is 30 seconds and “2” is selected in this field, the  
keypad display refreshes every 2 seconds, displaying 30, 28,  
26, 24, etc.).
An interval greater than “1” may be necessary for some older  
keypads to allow users time to enter key presses between  
display updates.
**NOTE:** If enabled and using only 2-digit fixed-word keypads  
(e.g., 6150RF), do not set exit delay time greater than 96  
seconds. Using a longer delay time may cause end-user  
confusion because 2-digit display keypads cannot display  
times greater than “99.” If longer exit time is required by the  
installation, it is recommended that the Exit Time Display  
option be disabled ("0").
**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.

Display Partition Number [0]  
(for Alpha Display Keypads)  
0 = no; 1 = yes (partition no. appears on Alpha Display)  
If selected, the partition number is displayed in the upper-left  
corner of the display. This is useful when using the GOTO  
partition function.

ECP Fail Display [0]  
0 = 3-digit display (“1” + device address)  
1 = 2-digit fixed-display as “91”  
Select “0” if using Alpha keypads and/or 3-digit Fixed-Word  
Display keypads. ECP faults will display “1” plus the device  
address (00-15) of device causing the fault (e.g., faults on  
device 07 display as “107”).  
Select “1” if using 2-digit Fixed-Word Display keypads (e.g.,  
certain 6128 series keypads). If selected, ECP faults for all  
devices will display as “91” on 2-digit displays, and “191” on  
3-digit or Alpha keypads.
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.

### Entries for Fields *182 and *184

<table>
<thead>
<tr>
<th>Entry</th>
<th>Zone Type 90 (field *182)</th>
<th>Zone Type 91 (field *184)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
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<tr>
<td>5</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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).

### Zone Conditions Represented in Entries 1-6

<table>
<thead>
<tr>
<th>NOTES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Do not use the &quot;fault delay&quot; option with a configurable zone type if it is set for an entry or exit delay, otherwise unpredictable results may occur.</td>
</tr>
<tr>
<td>2. 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.”</td>
</tr>
<tr>
<td>3. Do not set fire zones to respond as a “fault” (entries 1-6), otherwise faults will not display unless the [+] key is pressed.</td>
</tr>
<tr>
<td>4. 4219/4229 modules must use EOLRs or unpredictable results may occur.</td>
</tr>
<tr>
<td>5. 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.</td>
</tr>
<tr>
<td>b. For double-balanced zones, this entry must be “0.”</td>
</tr>
<tr>
<td>c. For zone-doubled zones, both zones of the doubled pair must be assigned the same response to a short.</td>
</tr>
</tbody>
</table>
Zones and Partitions

Each protection zone needs to be programmed with various attributes using *56 Zone Programming mode or *58 Expert Programming Mode. Using this mode, enter the zone number to be programmed and make appropriate entries at the prompts. Finally, Confirm the serial number of wireless transmitter zones.

The system can control two independent areas of protection (known as partitions) for use by independent users, if desired, by simply assigning zones to one or the other partition during zone programming. The control, by default, automatically distributes users between the two partitions. The master user can change the user number distributions.

Zones can also be assigned to a common partition, which is an area shared by users of both partitions (such as a lobby in a building). This allows either partition to arm, while leaving the common partition disarmed for access into the other partition.

The following describes the functioning of the common partition:

- The common zone sounds and reports alarms only when both partitions are armed. If only one partition is armed, the system ignores faults on the common zone.
- Either partition may arm its system if the common zone is faulted, but once armed, the other partition will not be able to arm unless the common zone is first bypassed or the fault is corrected.
- Faults on the common zone are displayed on common zone keypads, and will also appear on another partition’s keypad when that partition is armed.
- Either partition can clear and restore the common zone after an alarm.

For each of the following prompts, make the desired entry, followed by the [*] key to accept the entry.

**SET TO CONFIRM?**

0 = no (default)
1 = yes (See XMIT TO CONFIRM prompt later in this section.)

We recommend that you confirm the programming of every transmitter.

This display appears upon entry into this mode.

If 1 (Yes) is entered, you will be prompted to confirm each transmitter after entering the serial and loop numbers (at the “XMIT TO CONFIRM” prompt later).

**ENTER ZN NUM.**

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

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

Enter the zone number that you wish to program.

Enter a report code for zone 91 to enable addressable device reporting.

Enter a report code for zone 92 to enable duress reporting.

95, 96, 99 are emergency (panic) key zones.

† if zone expanders are used.

**SUMMARY SCREEN:**

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

“IN: L” appears for wireless zones and indicates input type and loop.

“IN: AD” appears for hardwire expansion zones (AW) and indicates the module’s address (AD), which is based on the zone number.

“HW: RT” appears for hardwire zones and indicates configuration (EOL, NO, NC, zone doubling, double-balanced) and response time selection.

**ZONE TYPE**

Each zone must be assigned to a zone type, which defines the way in which the system responds to faults in that zone. Enter the Zone Type code from the list below:

<table>
<thead>
<tr>
<th>Zone Type Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 = Not used</td>
<td>07 = 24-Hr Audible</td>
</tr>
<tr>
<td>01 = Entry/ext #1</td>
<td>08 = 24-Hr Aux</td>
</tr>
<tr>
<td>02 = Entry/ext #2</td>
<td>09 = Fire</td>
</tr>
<tr>
<td>03 = Perimeter</td>
<td>10 = Interior w/Delay</td>
</tr>
<tr>
<td>04 = Interior Follower</td>
<td>12 = Monitor Zone</td>
</tr>
<tr>
<td>05 = Trouble Day/Alarm Night</td>
<td>14 = Carbon Monoxide</td>
</tr>
<tr>
<td>06 = 24-Hr Silent</td>
<td>16 = Fire w/Verify</td>
</tr>
</tbody>
</table>

*5800 button-type transmitters only

90-93 = Configurable

**PARTITION**

1, 2, or 3-common

Enter the Partition number for this zone.

**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.

Enter the report code for this zone, which consists of 2 hexadecimal digits, each in turn consisting of 2 numerical digits. For example, for a report code of “10,” enter 01 and 00.

**HARDWARE TYPE**

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

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

**RESPONSE TIME**

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

0 = 10mSec 2 = 700mSec
1 = 350mSec 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) 4 = UR (unsupervised RF)
3 = RF (supervised 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.

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

RF Transmitters can be enrolled as one of the following types:

<table>
<thead>
<tr>
<th>Type Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF (Supervised RF) Sends periodic check-in signals, as well as fault, restore, and low-battery signals. The trans. must stay within receiver's range.</td>
</tr>
<tr>
<td>UR (Unsupervised RF) Sends all the signals that the “RF” type does, but the control does not supervise the check-in signals. The transmitter may therefore be carried off-premises.</td>
</tr>
<tr>
<td>BR (Unsupervised Button RF) Sends only fault signals. It will not send a low-battery signal until it is activated. The transmitter may be carried off-premises.</td>
</tr>
</tbody>
</table>

NOTE: For the built-in hardwired zones, the Input Device type is automatically displayed as HW and cannot be edited.
Enroll the transmitter's serial number and loop number as follows:

1. a. Transmit two open/close sequences (for button-type trans., 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.

   **NOTE:** If the [C] key is used to copy the previously enrolled serial number, the cursor will move to the Loop column (L) with the previous serial number displayed, and display a highlighted question mark for the loop number. Enter the loop number and press [*]. The system will now check for a duplicate serial/loop number combination.

**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.

**Completing Zone Programming**

- When you have finished programming all zones, test each zone using the system's TEST mode.

- **Do not use the Transmitter ID Sniffer Mode for checking wireless transmitting devices,** as it will only check for transmission of one zone on a particular transmitter, NOT the zones assigned to each additional loop.

**SUMMARY SCREEN**

<table>
<thead>
<tr>
<th>Zn</th>
<th>ZT</th>
<th>P</th>
<th>RC</th>
<th>HW:</th>
<th>RT</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>09</td>
<td>1</td>
<td>10</td>
<td>EL</td>
<td>1</td>
</tr>
</tbody>
</table>

(Typical for Zone 1, initial summary screen)

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 mode to enter 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 [*].

---

**58 EXPERT ZONE PROGRAMMING MODE**

*(press *58 while in Data Programming mode)*

This method is designed for use by installers with previous experience in programming HONEYWELL control panels. This mode is also used to program wireless keys using pre-defined templates.

**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**

<table>
<thead>
<tr>
<th>Zn</th>
<th>ZT</th>
<th>P</th>
<th>RC</th>
<th>HW:</th>
<th>RT</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>09</td>
<td>1</td>
<td>10</td>
<td>EL</td>
<td>1</td>
</tr>
</tbody>
</table>

(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 mode to enter 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).

**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.

**To quit this mode** and return to *58 Menu mode, enter 00 at this prompt and press [*].

---

### Wireless Key Predefined Default Templates

<table>
<thead>
<tr>
<th>For 5804</th>
<th>Loop</th>
<th>Function</th>
<th>Zone Type</th>
<th>For 5804BD</th>
<th>Loop</th>
<th>Function</th>
<th>Zone Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TEMPLATE 1</strong></td>
<td>1</td>
<td>No Response</td>
<td>23</td>
<td><strong>TEMPLATE 4</strong></td>
<td>1</td>
<td>No Response</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Disarm</td>
<td>22</td>
<td></td>
<td>2</td>
<td>No Response</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Arm Away</td>
<td>21</td>
<td></td>
<td>3</td>
<td>Arm Away</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>No Response</td>
<td>23</td>
<td></td>
<td>4</td>
<td>Disarm</td>
<td>22</td>
</tr>
<tr>
<td><strong>TEMPLATE 2</strong></td>
<td>1</td>
<td>No Response</td>
<td>23</td>
<td><strong>TEMPLATE 5</strong></td>
<td>1</td>
<td>No Response</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Disarm</td>
<td>22</td>
<td></td>
<td>2</td>
<td>Arm Stay</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Arm Away</td>
<td>21</td>
<td></td>
<td>3</td>
<td>Arm Away</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Arm Stay</td>
<td>20</td>
<td></td>
<td>4</td>
<td>Disarm</td>
<td>22</td>
</tr>
<tr>
<td><strong>TEMPLATE 3</strong></td>
<td>1</td>
<td>24-hour audible</td>
<td>7</td>
<td><strong>TEMPLATE 6</strong></td>
<td>1</td>
<td>24-hour audible</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Disarm</td>
<td>22</td>
<td></td>
<td>2</td>
<td>Arm Stay</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Arm Away</td>
<td>21</td>
<td></td>
<td>3</td>
<td>Arm Away</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Arm Stay</td>
<td>20</td>
<td></td>
<td>4</td>
<td>Disarm</td>
<td>22</td>
</tr>
</tbody>
</table>

---

### *57 FUNCTION KEY PROGRAMMING

(press *57 while in Data Programming mode) The Function Key Worksheet is on page 29.

The system provides the ability to program each of the four keypad function keys to perform one of 12 system operations. The end user can then activate the function by simply pressing and holding the programmed key for 2 seconds. Typical functions (listed below) include single-button arming, turning lights on/off, or single-button paging.

To assign emergency key functions (function key option "00"), first program the respective emergency zone number (95 for "A" key, 96 for "C" key, 99 for "B" key) with the desired zone type using *56 (or *58) Zone Programming mode, then use *57 Function Key menu mode to assign the desired key.

To use a function key to activate a relay action (*57 Menu mode function key 07), use *79 Menu mode to map the output, and use *80 Menu mode to define the output's action; select system operation type "66."

To use a function key for a user macro, use *57 menu mode to activate the desired key, then define the actual macro functions using the user code + [#] + [6] [6] command.

---

### 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.

---

### KEY "A" FUNC

Enter the desired function for this key:

00 = For the Function key selected, functions are as follows (default):
- If A selected = Zone 95 (emergency key, same as [1] + [+] )
- If B selected = Zone 99 (emergency key, same as [+] + [#] )
- If C selected = Zone 96 (emergency key, same as [3] + [#] )
- If D selected = Single-button paging

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 are 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 = 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.
**OUTPUT DEVICE PROGRAMMING GENERAL INFORMATION (**79/**80 Menu Mode)**

**Output Devices:** The system supports up to 16 relays and/or Powerline Carrier devices (X-10 devices) plus 2 built-in trigger outputs in any combination. These 18 “outputs” are assigned to system-wide output numbers (01-18). Use **79 Menu Mode** to assign output numbers and map them to device addresses.

**Output Functions:** The system also provides up to 48 installer-defined output functions, which can be assigned to any of the physical outputs. Therefore, the action of any one of the outputs can be based on as many of these defined functions as desired. This lets a single relay or X-10 device perform many functions. Use **80 Menu Mode** to define output functions.

**WARNING:** Relays and output devices are not recommended for life safety applications.

**NOTE:** When navigating the **79** and **80** menus: The [*] key is used to accept an entry and advance to the next prompt. The [#] key is used to revert back to the last question to check or change an entry. Press [*] to go forward again.

**Programming Output Devices**
1. Use **79 Menu Mode** to assign module and output numbers and map them to device addresses. **NOTE:** You must map output devices using **79 Menu Mode** before you can use **80 menu Mode**.
2. Use **80 Menu Mode** to create output definitions, which control the output devices, if desired.
3. Use **81 Zone List Menu mode** to define zone lists for use with output devices if the device action is based on more than one zone.
   - To program a device for manual activation (user code + [#] [7] / [#] [8] + 2-digit device number) or for scheduled automatic activation, simply map the device using **79 Menu mode**.
   - To program a device to automatically activate upon a system event (or function key), use **79 Menu mode** to map the device, then use **80 Menu mode** to define the automated device action.

**79 RELAY/POWERLINE CARRIER DEVICE PROGRAMMING MENU MODE**

*(press **79** while in Programming mode)* The **79 Device Mapping Worksheet** is on page 29.

Use this menu to assign Relay Module device addresses and specific relay numbers, and Powerline Carrier unit numbers. The system is based on predefined module addresses for 4204 and 4229 modules. Refer to the table shown at the “Module Address” prompt and set the modules’ addresses (via module DIP switches) accordingly.

The following table shows how these outputs are identified.

<table>
<thead>
<tr>
<th><strong>Output Identification</strong></th>
<th><strong>This output...</strong></th>
<th><strong>is identified by...</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Relays</td>
<td>the Relay Module’s device address and the relay position on that module (i.e. the physical relay number, 1-4, on that module).</td>
<td></td>
</tr>
<tr>
<td>X-10 Device</td>
<td>a house ID (entered in data field “27”) and the unit number of the device.</td>
<td></td>
</tr>
<tr>
<td>Built-in Outputs</td>
<td>the output number assigned, 17 for Trigger 1 and/or 18 for Trigger 2.</td>
<td></td>
</tr>
</tbody>
</table>

**ENTER OUTPUT NO.**

- **01-18** = relays/X-10;
- **17-18** = on-board triggers

[*] to continue

This is the logical (or reference) relay number as used in the system. Relays and X-10 devices are numbered 01-16; the on-board triggers are numbered 17 and 18 and can be programmed for inverted output, if required.

**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 Trigger 17 can be used for resetting 4-wire smoke detectors by connecting it to the negative power terminal of the smoke detector, selecting 1 at this prompt, and setting as zone type 54, fire zone reset, in **80 Menu mode**.

After entry, display returns to Output Number prompt. Use **80 Menu mode** to program the function of the trigger.

**OUTPUT TYPE**

- **0** = delete;
- **1** = 4204/4229 relay (skip to “B” prompt);
- **2** = Powerline Carrier device (skip to “A” prompt)

[*] to continue.

“**A**” (if X-10 was selected)

**UNIT No.**
Enter the unit code (01-16, set at the device).

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

**“B”** (if relay was selected)

**MODULE ADDR**
Enter the predefined address for this module (07-15; see Table of Device Addresses).

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

[*] to continue

**Module Addresses**

<table>
<thead>
<tr>
<th>Address</th>
<th>Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>07</td>
<td>1st 4229 (with zones 09-16)</td>
</tr>
<tr>
<td>08</td>
<td>2nd 4229 (with zones 17-24)</td>
</tr>
<tr>
<td>09</td>
<td>3rd 4229 (with zones 25-32)</td>
</tr>
<tr>
<td>10</td>
<td>4th 4229 (with zones 33-40)</td>
</tr>
<tr>
<td>11</td>
<td>5th 4229 (with zones 41-48)</td>
</tr>
<tr>
<td>12</td>
<td>1st 4204</td>
</tr>
<tr>
<td>13</td>
<td>2nd 4204</td>
</tr>
<tr>
<td>14</td>
<td>3rd 4204</td>
</tr>
<tr>
<td>15</td>
<td>4th 4204</td>
</tr>
</tbody>
</table>

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

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

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

This is the actual (or physical) relay number with respect to the Relay Module upon which it is located. For 4204 modules, relay numbers are 1-4. For 4229 modules, relay numbers are 1-2.

The system returns 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 30.

Use this mode to program output function definitions (up to 48 functions) that provide automated control of any of the output devices, based on events occurring on individual zones or zones with certain zone types. Each output definition is identified by an output function number, and includes the following components:

### Output Definition Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Function No.</td>
<td>A reference number that defines an output’s characteristics.</td>
</tr>
<tr>
<td>Activated By</td>
<td>Determines whether the initiating event occurs on a zone, a zone list, or a zone type.</td>
</tr>
<tr>
<td>Event</td>
<td>Event that triggers the output action. Can be an event occurring on a specific zone number or a zone list, or a specific zone type.</td>
</tr>
<tr>
<td>Partition</td>
<td>If the output is activated by zone type, this defines the partition in which the programmed event is to cause the device action.</td>
</tr>
<tr>
<td>Output Action</td>
<td>Defines the action of the relay/X-10 device when the defined event occurs. Can close for 2 seconds, stay closed until reset, continuously pulse (1-second close-open-close-open, etc.), toggle the device state, or activate for a defined duration (set in data field *177).</td>
</tr>
<tr>
<td>Output No.</td>
<td>Assigns this function to a specific output number (defined in *79 Menu Mode). This is the output number that will perform this function upon the triggering event. Note that each defined function is associated with only one output number. This means that if more than one output device needs to perform this particular function, you need to define another output function number with the same attributes, but assign the appropriate output number. (i.e. output devices can be assigned more than one function number, but each function number can only be assigned a single output number.</td>
</tr>
</tbody>
</table>

For example, if you want to pulse a strobe light upon fire alarms on zone 4 using a relay mapped to output number 2 (as programmed in *79 Menu Mode), program the following in *80 Menu Mode:

<table>
<thead>
<tr>
<th>Prompt</th>
<th>Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Funct. #</td>
<td>01 (assuming this is the first output function)</td>
</tr>
<tr>
<td>Activated By:</td>
<td>3 (zone number)</td>
</tr>
<tr>
<td>Enter Zn No.</td>
<td>04 (requires 2-digit zone numbers)</td>
</tr>
<tr>
<td>Output Action</td>
<td>3 (continuous pulse)</td>
</tr>
<tr>
<td>Output Number</td>
<td>02 (device mapped in *79 Menu Mode)</td>
</tr>
</tbody>
</table>

**OUTPUT FUNCT. #**

Enter the output function number to be defined: 01-48; [>] to continue: 00 = exit

**SUMMARY SCREEN**

<table>
<thead>
<tr>
<th>01</th>
<th>A</th>
<th>E</th>
<th>P</th>
<th>Trig</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>ZL=00</td>
</tr>
</tbody>
</table>

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

Select where the initiating event for this output definition is to occur

“**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.

**NOTE:** For alarm, fault, and trouble, an event on ANY zone in the list activates the output, but ALL zones in the list must be restored before the output is restored.

**“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 = part 1; 2 = part 2; 3 = part 3).

Press [>] to continue and skip to the “Output Action” prompt.

**CHOICES FOR ZONE TYPES:**

<table>
<thead>
<tr>
<th>00</th>
<th>Not Used</th>
<th>05</th>
<th>Day/Night</th>
<th>12</th>
<th>Monitor Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Ent/Exit #1</td>
<td>06</td>
<td>24 Hr Silent</td>
<td>14</td>
<td>Carbon Monoxide††</td>
</tr>
<tr>
<td>02</td>
<td>Ent/Exit #2</td>
<td>07</td>
<td>24 Hr Audible</td>
<td>16</td>
<td>Fire w/verification</td>
</tr>
<tr>
<td>03</td>
<td>Perimeter</td>
<td>08</td>
<td>24 Hr Aux</td>
<td>23</td>
<td>No Alarm Response</td>
</tr>
<tr>
<td>04</td>
<td>Interior Follower</td>
<td>09</td>
<td>Fire</td>
<td>24</td>
<td>Silent Burglary</td>
</tr>
<tr>
<td>10</td>
<td>Interior w/Delay</td>
<td>77</td>
<td>Keyswitch Zone</td>
<td></td>
<td>81 = AAV Monitor Zone</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>90-91 = Configurable</td>
</tr>
</tbody>
</table>

**CHOICES FOR SYSTEM OPERATION:**

| 20 | Arming–Stay                | 36 | “At Bell Timeout”**        | 58 | Duress                    |
|    |                            |    |                            |    |                           |
| 21 | Arming–Away                | 37 | “At Bell”                  | 60 | AAV                       |
| 22 | Disarming                  | 39 | Any Fire Alarm             | 61 | AVS/GSMV session begin §  |
|    |                            |    |                            |    |                           |
| 31 | End of Exit Time           | 40 | Bypassing                  | 62 | AVS/GSMV session end §    |
|    |                            |    |                            |    |                           |
| 32 | Start of Entry Time        | 41 | “AC Power Failure”         | 66 | Function Key†             |
|    |                            |    |                            |    |                           |
| 33 | Any Burglary Alarm         | 42 | “System Battery Low”       | 67 | Bell Fail                 |
|    |                            |    |                            |    |                           |
| 43 | Comm. Failure              | 43 | Telco Line Cut             | 68 |                           |
|    |                            |    |                            |    |                           |
| 52 | Kissoft                    | 52 | Keyswitch Red LED          | 76 |                           |
| 54 | Fire Zone Reset            | 54 | Keyswitch Green LED        |    |                           |

**Use 0 (Any) for Partition No. (P) entry.**

*** Or at Disarming, whichever occurs earlier.

† Use *57 Menu Mode to assign the function key (function “07”).

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

§ automatically set when appropriate AVS Quick Command performed.

**Note:** In normal operation mode:

Code + # + 7 + NN Key Entry starts Device NN.

Code + # + 8 + NN Key Entry stops Device NN.
**80 Menu Mode (continued)**

“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

**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 the desired device action.

**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 29.
Zone lists let you group individual zones for use with certain system actions. Using this mode, simply select an appropriate zone list number, then add the desired zone numbers to be included in that list.
The following table shows the available zone lists and their purposes:

<table>
<thead>
<tr>
<th>List No.</th>
<th>Used for…</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>general purpose</td>
<td>Any list may include any or all of the system’s zone numbers.</td>
</tr>
<tr>
<td>3</td>
<td>chime-by-zone (see field *26 to enable option)</td>
<td>A zone list can be assigned to more than one output relay.</td>
</tr>
<tr>
<td>4</td>
<td>cross zones (see note at right)</td>
<td>Zone List 4: When creating zone list 4 for cross zoning, include only zones assigned to zone types 3, 4, or 5. Do not include zones that have delays (entry/exit zones, interior w/delay) or 24-hour zones, as these zone types may produce unpredictable operation and may not function as intended. See field *85 for Cross Zone Timer option.</td>
</tr>
<tr>
<td>5</td>
<td>night stay zones</td>
<td>Zone List 6: See field *50 for Dial Delay Disable option.</td>
</tr>
<tr>
<td>6</td>
<td>dial delay disable</td>
<td>Zone List 7: See field *93 for Unlimited Reports option.</td>
</tr>
<tr>
<td>7</td>
<td>unlimited reports</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>general purpose</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>zones that activate Pager 1</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>zones that activate Pager 2</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>zones that activate Pager 3</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>zones that activate Pager 4</td>
<td></td>
</tr>
</tbody>
</table>

**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.
The system lets you assign zone descriptors for protection zones, keypad panics, and RF receiver supervision faults. Each description can be composed of a combination of up to 3 words selected from a vocabulary of words stored in memory (see Alpha Vocabulary List page). In addition, up to 10 installer-defined words can be added to those already in memory, plus 3 additional words can be assigned as partition descriptors. Thus, when an alarm or trouble occurs in a zone, an appropriate description for that zone’s location can be displayed at the keypad. Zone descriptors are recommended for systems using Alpha display keypads, and are necessary if a 4286VIP Phone Module is used.

**NOTE:** You can also enter zone descriptors when the zone is being defined in **56 Menu mode.**

4286 NOTE: If using a 4286VIP Phone Module, select from those words in the Alpha Vocabulary List shown in **boldface type.** The phone module will not provide annunciation of the other words. If a Phone Module is added to an existing system, the Alpha descriptors presently in the system should be reprogrammed, selecting from those words shown in **boldface type** in the Alpha Vocabulary List. The phone module will not provide annunciation of any other words.

### 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 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:

1. Press [+] plus the desired zone number (existing descriptor, if any, is displayed), then press [+] plus the zone number again (flashing cursor appears).

2. a. Press [#] plus the 3-digit number from the Alpha Vocabulary List on page 21 for the first word.

   b. Press [6] to accept the word and move the cursor for the next word.

3. Repeat steps 2a and 2b for the second and third words (if used).

4. When all words have been entered, press [8] to save the descriptor for that zone. The flashing cursor disappears.

5. Repeat steps 1-4 to assign a descriptor for the next zone.

6. 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.

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

You can add up to 10 installer-defined words to the built-in vocabulary, which can then be used when programming zone descriptors. Each of the 10 words can actually consist of a word string of one or more words, but no more than ten characters can be used for each word or word string.

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.

4. To delete a character, simply enter the SPACE character (#32) at the unwanted character’s location.

5. 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).

6. 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.

7. 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 * - 106 L - 155 RADIO - 209 VALVE
001 AIR - 059 DOWN - 057 LEFT - 156 REAR - 210 VAULT
002 ALARM * - 060 DRAWER - 108 LEVEL - 157 RECREATION - 212 VOLTAGE
004 AMBUSH - 062 DRIVEWAY - 109 LIBRARY * - 159 REFRIGERATION
005 AMBUSH - 064 DUCT - 110 LIGHT - 160 RF
006 AREA - 065 EAST - 111 LINE - 161 RIGHT
007 APARTMENT - 066 ELECTRIC - 113 LIVING * - 162 ROOM *
009 ATTIC * - 067 EMERGENCY - 114 LOADING - 163 ROOF
010 AUDIO - 068 ENTRY - 115 LOCK - 164 SAFE
012 BABY * - 069 EQUIPMENT - 116 DOOR - 165 SCREEN
013 BACK * - 071 EXIT * - 117 LOW - 166 SENSOR
014 BAR - 072 EXTERIOR - 118 LOWER - 167 SERVICE
016 ELEVATE * - 073 FACTORY - 119 MACHINE - 168 SHED *
017 BATHROOM * - 074 FAMILY - 120 MAIN * - 169 SHOCK
018 BED - 075 FAMILIES - 121 MAIDS - 170 SHOP *
019 BEDROOM * - 076 FATHERS - 123 MASTER * - 171 SHORT
020 BELL - 077 FENCE - 125 MEDICAL * - 173 SIDE *
021 BLOWER - 078 FOIL - 126 MEDICINE - 174 SKYLIGHT
022 BOILER - 079 FIRE * - 128 MONEY - 175 SLIDING *
023 BOTTOM - 080 FLOOR * - 129 MONITOR - 176 SMOKE *
025 BREAK - 081 FLOW - 130 MOTHERS - 177 SONS
026 BUILDING - 083 FOYER - 131 MOTION * - 179 SOUTH
028 CABINET - 084 FREEZER - 134 NORTH - 180 SPRINKLER
029 CALL - 085 FRONT * - 135 NURSERY - 182 STATION
030 CAMERA - 089 GARAGE * - 136 OFFICE * - 185 STORAGE *
031 CAR - 090 GAS - 138 OPEN * - 186 STORY
033 CASH - 091 GATE - 140 OUTSIDE - 190 SUPERVISED *
034 CCTV - 092 GLASS - 142 OVERHEAD - 186 SUPERVISION
035 CEILING - 093 GUEST - 143 PAINTING - 192 SWIMMING
036 CELLAR - 094 GUN - 144 PANIC * - 193 SWITCH
037 CENTRAL - 095 HALL * - 147 PERIMETER - 194 TAMPER
040 CLOSED * - 096 HOLDUP - 148 PHONE - 196 TELEPHONE
046 COMPUTER - 098 HOUSE * - 150 POINT - 199 TEMPERATURE
047 CONTACT - 099 PASSIVE - 151 POLICE * - 200 THERMOSTAT
048 DAUGHTERS * - 100 INFRARED - 152 POOL * - 201 TOOL
049 DELAYED - 102 INSIDE * - 153 POWER - 202 TRANSMITTER
050 DEN * - 103 INTERIOR - 147 PATIO * - 205 UP
051 DESK - 104 JEWELRY - 148 PHONE - 206 UPPER
053 DEDUCTOR * - 104 K - - 150 POOL - 207 UPSTAIRS *
054 DISCRIMINATOR * - 105 KITCHEN * - 152 POWER - 208 UTILITY *
055 DISPLAY - 107 LINER - 113 LIVING * - 162 ROOM *

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 announcement 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)

<table>
<thead>
<tr>
<th>Character</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 (space)</td>
<td>40</td>
</tr>
<tr>
<td>33</td>
<td>34</td>
</tr>
<tr>
<td>35</td>
<td>36</td>
</tr>
<tr>
<td>37</td>
<td>38</td>
</tr>
<tr>
<td>39</td>
<td>40</td>
</tr>
</tbody>
</table>
SETTING SCHEDULES
(Installer Code + [#] + [6] [4])
The system provides schedules, which can be used to automatically control 11 types of system events at pre-defined times. Some events are reserved for the installer only.

NOTES:
• The master code can only access schedules 01-16 and events 00-07.
• System clock must be set before schedules can take effect.
• 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.)

DEVICE NUMBER  (for event 1 relay on/off)
01-18
[*] to continue
Enter the physical device number as programmed in *79 Menu Mode, then press [*] to continue to the “Start” prompt.
Device numbers 17 and 18 designate built-in triggers 1 and 2 respectively.

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.
Enter the event’s start time and days of the week to occur.

STOP  (for events 1 relay on/off; 2 user access; 3 latch key report)
See START for entries.  [*] to continue.
Enter the event’s stop time and days of the week to occur.

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
Enter the desired repeat option for this schedule.
e.g., To make a schedule that happens everyday you would select all days with a repeat count of 1. To make a schedule that runs for one week then stops, select everyday with a repeat count of 0.

RANDOMIZE  (for events 01 and 11)
0 = no
1 = yes
[*] to continue and return to ENTER SCHED NO. prompt to program the next schedule.
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).
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 select the desired reporting paths (phone line and/or GSMV) and path for AAV communication.

To undo the Quick Command programming if necessary, 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

Quick Program Command Results

When either the #03 or #04 Quick Program command is used, the following are automatically programmed and no longer available for other control panel purposes.

<table>
<thead>
<tr>
<th>Output Function No.</th>
<th>#03 Command</th>
<th>#04 Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>(+80 mode)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>46 (zone type 60, relay 15)</td>
<td>Same as #03 plus:</td>
<td></td>
</tr>
<tr>
<td>47 (zone type 61, relay 16)</td>
<td>41 (zone type 14, relay 13)</td>
<td></td>
</tr>
<tr>
<td>48 (zone type 62, relay 16)</td>
<td>42 (zone type 22, relay 13)</td>
<td></td>
</tr>
<tr>
<td>Output Relay No. (+79 mode)</td>
<td>Same as #03 plus:</td>
<td></td>
</tr>
<tr>
<td>15 (addr 11, relay pos 2)</td>
<td>13 (addr 11, relay pos 4)</td>
<td></td>
</tr>
<tr>
<td>16 (addr 11, relay pos 1)</td>
<td>14 (addr 11, relay pos 3)</td>
<td></td>
</tr>
<tr>
<td>Protection Zone (+56/+58 mode)</td>
<td>Same as #03 command</td>
<td></td>
</tr>
<tr>
<td>4229 zn 48 (zt 81, addr 11)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Device Address</td>
<td>address 11 (AVS module)</td>
<td>Same as #03 command</td>
</tr>
<tr>
<td>Data Field</td>
<td>*91 AAV enabled</td>
<td>AAV enabled</td>
</tr>
</tbody>
</table>

UPLOADING/DOWNLOADING VIA THE INTERNET

UL: Up/downloading via the Internet has not been evaluated by UL.

The 320P1, when used with an appropriate communications device (ex. 7845i-ent, 7845i-GSM), supports upload/download programming capability via the Internet or a Private local area network (Intranet) instead of using telephone lines. This allows site maintenance independent of central station monitoring, and modification to sites globally via the Internet or through a private LAN.

Refer to the instructions provided with the communications device for information regarding its installation, programming, and registration. The System Requirements table below lists two sets of system requirements, depending upon whether you intend to communicate over the Internet using AlarmNet Services, or whether you are communicating over a Private LAN (Intranet).

System Requirements

<table>
<thead>
<tr>
<th>Internet Communication At the Installation Site:</th>
<th>Intranet (Private LAN) Communication At the Installation Site:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Appropriate Internet/Intranet Communication Module</td>
<td>• Appropriate Internet/Intranet Communication Module</td>
</tr>
<tr>
<td>• 7720P Programmer</td>
<td>• 7720P Programmer</td>
</tr>
<tr>
<td>• Internet Access and Cable/DSL Modem</td>
<td>• Ethernet Network Connection</td>
</tr>
<tr>
<td>• Cable/DSL Router (optional, if connecting more than one device)</td>
<td>• 320P1 Control Panel</td>
</tr>
<tr>
<td>• 320P1 Control Panel</td>
<td></td>
</tr>
</tbody>
</table>

To set up the control panel, do the following:

1. Connect the communications device to the control panel’s ECP (keypad) terminals.
2. Internet Users: Connect the communications device to the Internet via a cable/DSL modem and router.
   Intranet Users: Connect the communications device to the Intranet (LAN) via the appropriate Ethernet connection.
3. Enable the communications device in the control panel (using <29 Menu mode) to enable alarm reporting and module supervision.
4. Using the communications device’s programming menus (via *29 Menu mode or 7720P programmer), program the communication device for address 3 and program the device’s other options as required.
5. Register the communications device with AlarmNet. The communications device must be registered before downloading or alarm reporting can take place.

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.
**29 COMMUNICATION DEVICE MENU MODE (Pass-Through Programming)**

This mode is for programming an IP, GSM, or IP/GSM Communicator Module using an alpha keypad. Alternatively, these options can be programmed via the AlarmNet Direct website. After programming is complete, the module must be registered with AlarmNet before reporting via the communication device can occur. Refer to the device’s instructions for registration procedures.

**NOTE:** The module must be set to device address 3.

**IMPORTANT:** The use of an IP/GSM Communicator Module requires an AlarmNet–I account. Please obtain the account information from the central station prior to programming this module.

Using an Alpha Keypad as a 7720P Programming Tool

When programming with *29 menu mode, the alpha keypad mimics the functions of the 7720P Programming Tool. See figure to 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).

### *29 IP/GSM Program Mode*

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

<table>
<thead>
<tr>
<th>Key</th>
<th>Normal Key Function</th>
<th>SHIFT Key Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/A</td>
<td>[1]: For entering the number 1</td>
<td>[A]: Used for entering C.S. ID number</td>
</tr>
<tr>
<td>2/B</td>
<td>[2]: For entering the number 2</td>
<td>[B]: Used for entering C.S. ID number</td>
</tr>
<tr>
<td>3/C</td>
<td>[3]: For entering the number 3</td>
<td>[C]: Used for entering C.S. ID number</td>
</tr>
<tr>
<td>4/D</td>
<td>[4]: For entering the number 4</td>
<td>[D]: Used for entering C.S. ID number</td>
</tr>
<tr>
<td>5/E</td>
<td>[5]: For entering the number 5</td>
<td>[E]: Used for entering C.S. ID number</td>
</tr>
<tr>
<td>6/F</td>
<td>[6]: For entering the number 6</td>
<td>[F]: Used for entering C.S. ID number</td>
</tr>
<tr>
<td>7/S</td>
<td>[7]: For entering the number 7</td>
<td>[S]: Press to display diagnostic status</td>
</tr>
<tr>
<td>8/T</td>
<td>[8]: For entering the number 8</td>
<td>[T]: Press to send TEST messages</td>
</tr>
<tr>
<td>9/X</td>
<td>[9]: For entering the number 9</td>
<td>[X]: Press to reset the IP/GSM</td>
</tr>
<tr>
<td>+*/SPACE</td>
<td>+*: Used to select programming options</td>
<td>[SPACE]: Not used</td>
</tr>
<tr>
<td>#/ENTER</td>
<td>#/ENTER: Press to accept entries</td>
<td>No SHIFT function</td>
</tr>
</tbody>
</table>

† Active only when the "REVIEW?" prompt is displayed.
ZONE TYPE DEFINITIONS

Zone types define the way in which the system responds to faults in each zone.

**Type 00 Zone Not Used**
- Program a zone with this zone type if the zone is not used.

**Type 01 Entry/Exit Burglary #1**
- Assign to zones that are used for primary entry and exit.
- Provides entry delay when zone is faulted if control is armed in the Away, Stay, or Night-Stay modes.
- No entry delay provided when the panel is armed in the Instant/Maximum mode.
- Entry delay #1 is programmable for each partition (field *35).
- Exit delay begins whenever the control is armed, regardless of the arming mode selected, and is programmable (field *34).

**Type 02 Entry/Exit Burglary #2**
- Assign to zones that are used for entry and exit and require more time than the primary entry/exit point.
- Provides a secondary entry delay, similar to entry delay #1.
- Entry delay #2 is programmable for each partition (field *36).
- Exit delay is same as described for Type 01.

**Type 03 Perimeter Burglary**
- Assign to all sensors or contacts on exterior doors and windows.
- Provides an instant alarm if the zone is faulted when the panel is armed in the Away, Stay, Night-Stay, Instant or Maximum modes.

**Type 04 Interior Follower**
- Assign to a zone covering an area such as a foyer, lobby, or hallway through which one must pass upon entry (to and from the keypad).
- Provides a delayed alarm (using the programmed entry 1 time) if the entry/exit zone is faulted first. Otherwise this zone type gives an instant alarm.
- Active when the panel is armed in the Away mode.
- Bypassed automatically when the panel is armed in the Stay or Instant modes; if armed in Night-Stay mode, zones assigned to zone list 05 (night-stay zone list) are not bypassed when system armed in Night-Stay mode.

**Type 05 Trouble by Day/Alarm by Night**
- Assign to a zone that contains a foil-protected door or window (such as in a store), or to a zone covering a sensitive area such as a stock room, drug supply room, etc.
- Can also be used on a sensor or contact in an area where immediate notification of an entry is desired.
- Provides an instant alarm if faulted when armed in the Away, Stay, Night-Stay, Instant or Maximum (night) modes.
- During the disarmed day (day), the system will provide a latched trouble sounding from the keypad (and a central station report, if desired).

**Type 06 24-hr Silent Alarm**
- Usually assigned to a zone containing an emergency button.
- Sends a report to the central station but provides no keypad display or sounding.

**Type 07 24-hour Audible Alarm**
- Assign to a zone that has an emergency button.
- Sends a report to the central station, and provides an alarm sound at the keypad, and an audible external alarm.

**Type 08 24-hour Auxiliary Alarm**
- Assign to a zone containing an emergency button, or to a zone containing monitoring devices such as water or temperature sensors.
- Sends a report to the central station and provides an alarm sound at the keypad. (No bell output.)

**Type 09 Supervised Fire**
- Provides a fire alarm on short circuit and a trouble condition on open circuit. A fire alarm produces a pulsing bell output.
- This zone type is always active and cannot be bypassed.

**Type 10 Interior w/Delay**
- Provides entry delay (using the programmed entry time), if tripped when the panel is armed in the Away mode.
- Entry Delay 1 begins whenever sensors in this zone are violated, regardless of whether or not an entry/exit delay zone was tripped first.
- Bypassed when the panel is armed in the Stay or Instant modes; if armed in Night-Stay mode, zones assigned to zone list 05 (night-stay zone list) are not bypassed when system armed in Night-Stay mode.

**Type 12 Monitor Zone**
- Works as a dynamic monitor of a zone fault/trouble (not alarm).
- In the case of a short/open, the message, ""ALARM""-24 Hr. Non-Burg. -#XXX " (where XXX is the zone number) will be sent to the Central Station.
- The system keypad will display a "check" message indicating the appropriate zone (but keypad beeping does not occur). Upon restoration of the zone, the message, ""RESTORE""-24 Hr. Non-Burg. -#XXX " will be sent to the Central Station.
- The "check" message will automatically disappear from the keypad dynamically, when the zone restores; a user code + off sequence is not needed to reset the zone.
- Faults of this zone type are independent of the system, and can exist at the time of arming without interference.
- Since this is a "trouble" zone type, do not use this zone type with relays set to activate upon "alarm."

**Type 14 24 Hour Carbon Monoxide Monitor**
- Assigned to any zone with a carbon monoxide detector.
- A carbon monoxide alarm produces keypad and detector sounding (does not affect bell output).
- Always active and cannot be bypassed.

**Type 16 Fire w/Verification**
- Provides a fire alarm when zone is shorted, but only after alarm verified.
- Verifies alarm by resetting smoke detectors after short is detected (removes power 7 seconds for zone 1, 3 seconds for trigger output). Another short circuit within 90 seconds triggers fire alarm.
- Provides a trouble response when zone is open.

**Type 20 Arm-Stay (BR only)**
- Arms the system in Stay mode when the zone is activated.
- Pushbutton units send the user number to the central station when arming or disarming.
- User number for button must be assigned.

**Type 21 Arm-Away (BR only)**
- Arms the system in Away mode when the zone is activated.
- Pushbutton units send the user number to the central station when arming or disarming.
- User number for button must be assigned.

**Type 22 Disarm (BR only)**
- Disarms the system when the zone is activated.
- User number for button must be assigned.

**Type 23 * No Alarm Response**
- Can be used on a zone when an output relay action is desired, but with no accompanying alarm (e.g., lobby door access).

**Type 24 Silent Burglary**
- Usually assigned to all sensors or contacts on exterior doors and windows where bells and/or sirens are NOT desired.
- Provides an instant alarm, with NO audible indication at any keypad or external sounder, if the zone is faulted when the system is armed in the Away, Stay, Instant, or Maximum modes.
- A report is sent to the central station.

**Type 77 Keyswitch**
- Assign to zone wired to a keyswitch.
- Do not use input type "BR" devices with this zone type.

**Type 81 AAV Monitor Zone**
- Assign to zone connected to AAV module.
- Monitors 2-way voice sessions as follows:
  - When the zone is faulted, all alarm sounding and dialer reporting stops, except for fire alarms, which immediately terminate the voice session and cause a fire report to be sent.
  - When the zone is restored (session ended), sounding resumes (if bell timeout has not expired) and reports that were stopped are sent.

**Types 90-93 Configurable**
- Allows for various custom responses. Options include response to entry/exit delays, response opens/shorts, types of alarm/trouble sounding, dial delay, and unique Contact ID report codes. Types 92 and 93 can only be programmed via downloader.
  - Zone Types 90-93 may not be used as fire or burglar alarm zones on fire or UL burglar alarm installations.
  - The system can still be armed when these zone types are in a faulted condition.
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.
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.
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.
# WORKSHEET for SCHEDULES

(Installer code + [6] + [4]; Master code can only access schedules 01-16 and events 00-07)

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Events:
- `00` = clear event
- `01` = device on/off
- `02` = user access
- `03` = latch key report
- `04` = forced STAY arm
- `05` = forced AWAY arm
- `06` = auto disarm
- `07` = display "reminder"
- `08` = clear event
- `09` = clear event
- `10` = display custom words 8-10
- `11` = periodic test report

Repeat Options: 0 = none; 1 = repeat weekly; 2 = repeat every other week; 3 = repeat every third week; 4 = repeat every fourth week
## WORKSHEET for *56 ZONE PROGRAMMING*

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<td>[07]</td>
<td>N/A**</td>
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<td>N/A</td>
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<td>keypad [*] / [#]</td>
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</table>

** Emergency key zones 95, 96, and 99 report the partition of the keypad used to activate the emergency zones.
**WORKSHEET for *57 FUNCTION KEY PROGRAMMING**

<table>
<thead>
<tr>
<th>Option</th>
<th>Function</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Comments</th>
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<tbody>
<tr>
<td>01</td>
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<td>Comm. Test</td>
<td>[08]</td>
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<tr>
<td>09</td>
<td>Macro Key 1</td>
<td>[09]</td>
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<td>00</td>
<td>Emergency Keys:</td>
<td>zone 95</td>
<td>zone 99</td>
<td>zone 96</td>
<td>paging</td>
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<td>Personal Emergency</td>
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<td>Silent Alarm</td>
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<td>Fire</td>
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</tbody>
</table>

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.

**WORKSHEET for *79 OUTPUT RELAY/POWERLINE CARRIER DEVICE PROGRAMMING**

(Must program before using *80)

<table>
<thead>
<tr>
<th>Output No.</th>
<th>Module Addr.</th>
<th>Pos (1-4)</th>
<th>Unit No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
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</tbody>
</table>

**WORKSHEET for *81 ZONE LIST PROGRAMMING**

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.

<table>
<thead>
<tr>
<th>List No.</th>
<th>Used For...</th>
<th>Contains These Zones...</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>General Purpose (GP)</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>General Purpose</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>Chime-by-Zone or GP</td>
<td>(see field *26 for Chime-by-Zone option)</td>
</tr>
<tr>
<td>04</td>
<td>Cross Zones or GP</td>
<td>(see field *85 for Cross Zone Timer option)</td>
</tr>
<tr>
<td>05</td>
<td>Night-Stay Zones or GP</td>
<td></td>
</tr>
<tr>
<td>06</td>
<td>Dial Delay Disable</td>
<td>(see field *50 for Dial Delay Disable option)</td>
</tr>
<tr>
<td>07</td>
<td>Unlimited Reports</td>
<td>(see field *93 for Unlimited Reports option)</td>
</tr>
<tr>
<td>08</td>
<td>General Purpose</td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>Zones activating pager 1</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Zones activating pager 2</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Zones activating pager 3</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Zones activating pager 4</td>
<td></td>
</tr>
</tbody>
</table>
WORKSHEET for *80 OUTPUT FUNCTION PROGRAMMING

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. Tamper activation units cannot be used to operate devices.

<table>
<thead>
<tr>
<th>Output Function Number 1-48</th>
<th>Activation Type and Detail</th>
<th>Partition Number (P) (if using ZT trig)</th>
<th>Event (for zone list/activated by)</th>
<th>Action</th>
<th>Output Number 1-18</th>
<th>Device Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Activated by</td>
<td>Zone List (ZL) 1-8 = list</td>
<td>By Zone List</td>
<td></td>
<td></td>
<td>R = relay</td>
</tr>
<tr>
<td></td>
<td>0=delete</td>
<td>Zone Type (ZT) <em>(see table below)</em></td>
<td>0 = restore</td>
<td></td>
<td></td>
<td>T = trigger</td>
</tr>
<tr>
<td></td>
<td>1=xn list</td>
<td>Zone No. (ZN) 00=none 01-64</td>
<td>1 = alarm</td>
<td></td>
<td></td>
<td>X = X10</td>
</tr>
<tr>
<td></td>
<td>2=xn type</td>
<td></td>
<td>2 = fault</td>
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<td>3=xn no.</td>
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<td>3 = trouble</td>
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</tbody>
</table>

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

- **00 = Not Used**
- **05 = Trouble Day/Alarm Night**
- **10 = Interior w/Delay**
- **14 = Carbon Monoxide**
- **01 = Entry/Exit #1**
- **06 = 24 Hr Silent**
- **12 = Monitor Zone**
- **07 = 24 Hr Audible**
- **13 = Carbon Monoxide**
- **08 = 24 Hr Aux**
- **23 = No Alarm Response**
- **03 = Perimeter**
- **09 = Fire**
- **24 = Silent Burglary**
- **77 = Keyswitch**
- **27 = Keyswitch green LED**
- **28 = Keyswitch red LED**
- **81 = AAV Monitor Zone**

**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.**

---

[291x20]– 30 –
TABLE OF DEVICE ADDRESSES

<table>
<thead>
<tr>
<th>This Device</th>
<th>Uses Address</th>
<th>Reports as †</th>
<th>Enabled By…</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Receiver</td>
<td>00</td>
<td>100</td>
<td>*56 zone programming: input device type entry</td>
</tr>
<tr>
<td>AUI 1 (touchscreen)</td>
<td>01</td>
<td>n/a</td>
<td>Automatic if AUI enable field *189 enabled for AUI 1</td>
</tr>
<tr>
<td>AUI 2 (touchscreen)</td>
<td>02</td>
<td>n/a</td>
<td>Automatic if AUI enable field *189 enabled for AUI 2</td>
</tr>
<tr>
<td>AUI 3 (touchscreen)</td>
<td>05</td>
<td>n/a</td>
<td>Automatic if AUI enable field *189 enabled for AUI 3</td>
</tr>
<tr>
<td>AUI 4 (touchscreen)</td>
<td>06</td>
<td>n/a</td>
<td>Automatic if AUI enable field *189 enabled for AUI 4</td>
</tr>
<tr>
<td>communications device (LRR)</td>
<td>03</td>
<td>103</td>
<td>Automatic if communication device enabled in &quot;29 menu mode</td>
</tr>
<tr>
<td>4286 Voice Module</td>
<td>04</td>
<td>104</td>
<td>Automatic if phone module access code field *28 enabled</td>
</tr>
<tr>
<td>Zone Expanders (4219/4229):</td>
<td></td>
<td></td>
<td>*56 zone programming: input device type entry, then:</td>
</tr>
<tr>
<td>module 1 (for zones 09 - 16)</td>
<td>07</td>
<td>107</td>
<td>automatic if zone no. 9-16 entered as AW type or relay assigned</td>
</tr>
<tr>
<td>module 2 (for zones 17 - 24)</td>
<td>08</td>
<td>108</td>
<td>automatic if zone no. 17-24 entered as AW type or relay assigned</td>
</tr>
<tr>
<td>module 3 (for zones 25 - 32)</td>
<td>09</td>
<td>109</td>
<td>automatic if zone no. 25-32 entered as AW type or relay assigned</td>
</tr>
<tr>
<td>module 4 (for zones 33 - 40)</td>
<td>10</td>
<td>110</td>
<td>automatic if zone no. 33-40 entered as AW type or relay assigned</td>
</tr>
<tr>
<td>module 5 (for zones 41 - 48)</td>
<td>11</td>
<td>111</td>
<td>automatic if zone no. 41-48 entered as AW type or relay assigned</td>
</tr>
<tr>
<td>Relay Modules (4204):</td>
<td></td>
<td></td>
<td>*79 output device programming: device address prompt:</td>
</tr>
<tr>
<td>module 1</td>
<td>12</td>
<td>112</td>
<td>entered at device address prompt</td>
</tr>
<tr>
<td>module 2</td>
<td>13</td>
<td>113</td>
<td>entered at device address prompt</td>
</tr>
<tr>
<td>module 3</td>
<td>14</td>
<td>114</td>
<td>entered at device address prompt</td>
</tr>
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<td>module 4</td>
<td>15</td>
<td>115</td>
<td>entered at device address prompt</td>
</tr>
<tr>
<td>Keypads:</td>
<td></td>
<td></td>
<td>data field programming as listed below:</td>
</tr>
<tr>
<td>keypad 1</td>
<td>16</td>
<td>n/a</td>
<td>always enabled, all sounds enabled.</td>
</tr>
<tr>
<td>keypad 2</td>
<td>17</td>
<td>n/a</td>
<td>data field *190</td>
</tr>
<tr>
<td>keypad 3</td>
<td>18</td>
<td>n/a</td>
<td>data field *191</td>
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</tr>
<tr>
<td>keypad 8</td>
<td>23</td>
<td>n/a</td>
<td>data field *196</td>
</tr>
<tr>
<td>RIS Communication</td>
<td>25</td>
<td>n/a</td>
<td>automatic</td>
</tr>
<tr>
<td>5800TM Module</td>
<td>28</td>
<td>n/a</td>
<td>automatic</td>
</tr>
</tbody>
</table>

† 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.

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.