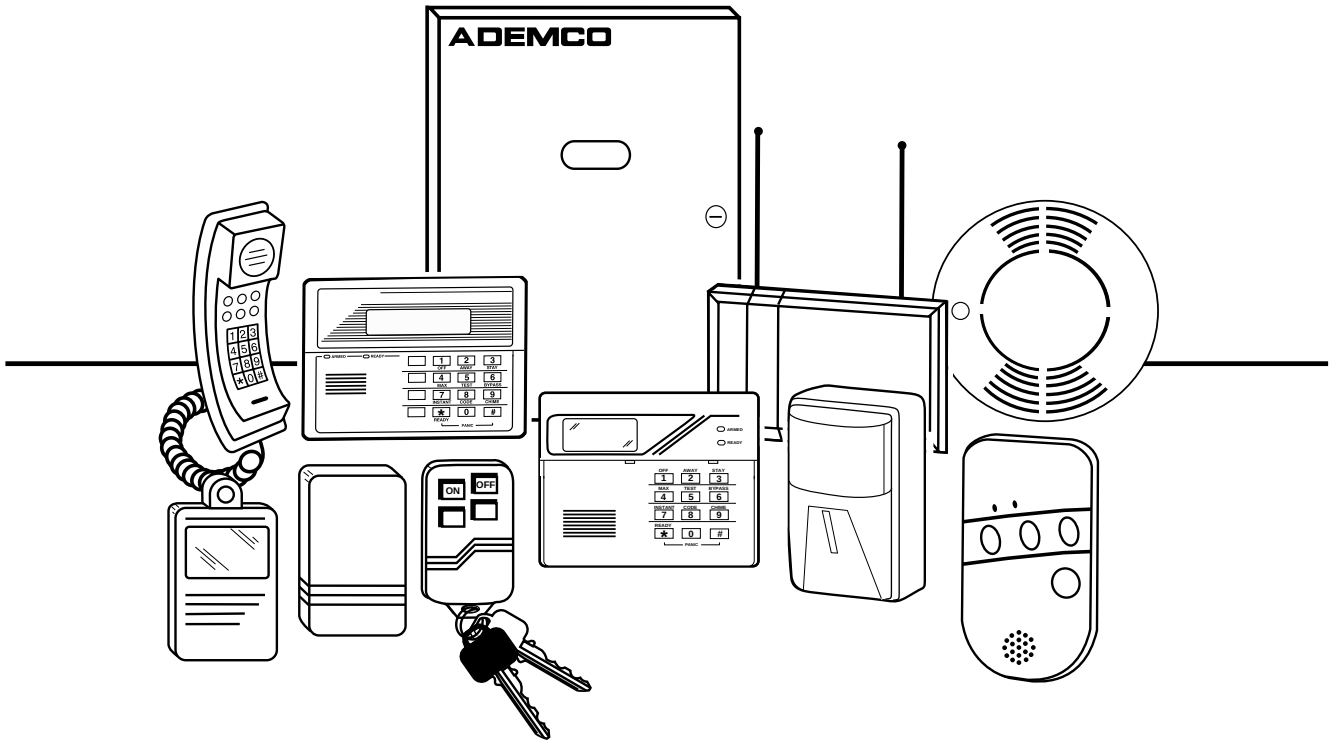
# VISTA-10SE

## Security System

## Installation and Setup Guide

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N7227V6 7/01

# RECOMMENDATIONS FOR PROPER PROTECTION

**The Following Recommendations for the Location of Fire and Burglary Detection Devices Help Provide Proper Coverage for the Protected Premises.**

### Recommendations for Smoke and Heat Detectors

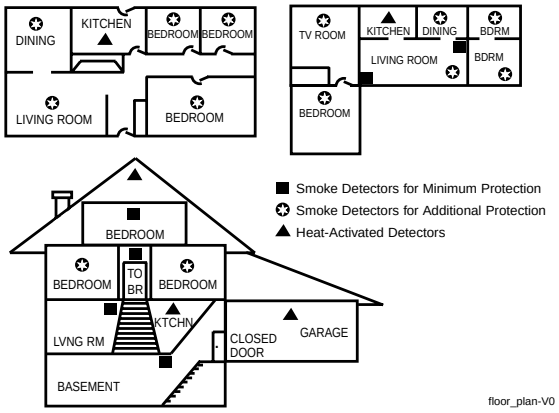
With regard to the number and placement of smoke/heat detectors, we subscribe to the recommendations contained in the National Fire Protection Association's (NFPA) Standard #72 noted below.

Early warning fire detection is best achieved by the installation of fire detection equipment in all rooms and areas of the household as follows: For minimum protection, a smoke detector should be installed outside of each separate sleeping area, and on each additional floor of a multi-floor family living unit, including basements. The installation of **smoke detectors** in kitchens, attics (finished or unfinished), or in garages is not normally recommended.

For maximum protection, the NFPA recommends that you install **heat** or **smoke detectors** in the living room, dining room, bedroom(s), kitchen, hallway(s), attic, furnace room, utility and storage rooms, basements and attached garages.

In addition, we recommend the following:

- Install a smoke detector inside every bedroom where a smoker sleeps.
- Install a smoke detector inside every bedroom where someone sleeps with the door partly or completely closed. Smoke could be blocked by the closed door. Also, an alarm in the hallway outside may not wake up the sleeper if the door is closed.




- Install a smoke detector inside bedrooms where electrical appliances (such as portable heaters, air conditioners, or humidifiers) are used.
- Install a smoke detector at both ends of a hallway if the hallway is more than 40 feet (12 meters) long.
- Install smoke detectors in any room where an alarm control is located, or in any room where alarm control connections to an AC source or phone lines are made. If detectors are not so located, a fire within the room could prevent the control from reporting a fire or an intrusion.

**THIS CONTROL COMPLIES WITH NFPA REQUIREMENTS FOR TEMPORAL PULSE SOUNDING FOR FIRE NOTIFICATION APPLIANCES.**

### Recommendations for Proper Intrusion Protection

For proper intrusion coverage, sensors should be located at every possible point of entry to a home or commercial premises. This would include any skylights that may be present, and the upper windows in a multi-level building.

In addition, we recommend that radio backup be used in a security system so that alarm signals can still be sent to the alarm monitoring station in the event that the telephone lines are out of order (alarm signals are normally sent over the phone lines, if connected to an alarm monitoring station).

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VISTA-10SE SUMMARY OF CONNECTIONS DIAGRAM ..... Inside back cover

# Conventions Used In This Manual

Before you begin using this manual, it is important that you understand the meaning of the following symbols:

**UL** A UL note that includes specific information that must be followed if you are installing this system in a UL Listed application.

A checked note includes information you should be aware of before continuing with the installation, and which, if not observed, could result in operational difficulties.

This symbol warns of conditions that could seriously affect the operation of the system, or cause damage to the system. Please read each warning carefully. This symbol also denotes warnings about physical harm to the user.

| Enter Zone Num.<br>(00 = Quit) |
|---|

You may program many system options by responding to alpha keypad display prompts. These prompts appear as shown at left in a double-line box, for example.

✳20 When programming the system, data fields are indicated by a "star" (✳), followed by the data field number.

**PRODUCT MODEL NUMBERS:** Unless noted otherwise, references to specific model numbers represent ADEMCO products.

SECTION 1

# Introduction

The VISTA–10SE is a control that supports up to 22 hardwired and wireless zones, plus remote keypads.

## Features

### Basic Hardwired Zones

Provides 6 basic hardwired zones having the following characteristics:

- Zones 1-6 response time is 300–500 milliseconds.
- Zone 3 programmable fast response time is 10–15 milliseconds.
- EOLR supervision supporting N.O. or N.C. sensors
- Zone 5 supports as many 4-wire smoke or heat detectors as can be powered from the control).
- Zones 7, 95, and 96 are keypad Panics.
- Zone 8 is Duress.
- Zone 9 is Tamper.

### Wireless Expansion

- Supports up to 16 wireless zones.
- Requires the use of a 5881 (5882 in Canada) type RF receiver (with 5800 Series wireless transmitters), as shown below.

| Receiver Model | No. of Zones | Transmitter Type |
|---|---|---|
| 5881L (5882L*) | Up to 8 | 5800 |
| 5881M (5881M*) | Up to 16 | 5800 |
| 5881H (5882H*) | Up to 16 | 5800 |

* Used in Canada

**UL** Wireless may not be used in UL Commercial Burglary installations.

### Remote Keypads

Up to 4 of any of the following keypads may be used:

Fixed-Word Keypads: 6127*, 6128, and 6137.

* This keypad cannot be used if a 4285/4286 VIP Module is being used.

Alpha Keypads: 6139 (2-line alphanumeric display).

6138 (1-line alphanumeric display).

When programming from a keypad, a 6139 2-line alpha keypad must be connected (but need not stay in the system).

### Security Codes

- Installer code is User 1
- One Master code for entire system (User 2).
- 4 secondary user codes (Users 3–6)
- One duress code (User 8).

**Duress Code:** An emergency code that, when used to disarm or arm the system, will send a silent duress message to the central station.

### Keypad Panic Keys

- Up to 3 programmable panic key functions are provided.
- Designated as Zones 7, 95, 96.
- Activated by wired and wireless keypads
- Reported separately.

### Paging Feature

If the paging feature is to be included in this system, (refer to Split/Dual Reporting field in SECTION 4: Data Field Programming), the pager will respond to certain conditions as they occur in the system by displaying a 7-digit system status code that indicates the type of condition that has occurred.

The 7-digit status code can be preceded by up to 16 digits (programmed in a separate field), which can consist of a PIN number, Subscriber account number, or any additional data that may be required to be sent to the pager.

### Quick Arm Feature

"Quick Arm" may be programmed, allowing use of the [#] key in place of the security code for arming (Quick Arm will not work unless the Master code has been programmed into the system).

### Optional Bell Supervision

This is a hardware-enabled option, achieved by cutting a red jumper on the PC board. If the "Alarm Output" loop connected to an external sounder is then opened or shorted, a "bell trouble" message will be displayed at the keypads, accompanied by a trouble sound. A trouble report will also be sent to the central station.

### Optional RF Jam Detection

If RF jam detection is programmed for a 5800 RF system, the RF receiver will detect a condition that may impede proper RF reception (i.e., jamming or other RF interference). Such a condition will produce a message display, and a report will be sent to the central monitoring station (if trouble reporting is enabled).

### Optional Output Relays

- Up to 4 relays using one 4204 Relay Module.
- Actions programmable to respond to zone activity or manual keypad entries.

### Optional VIP Module

- Supports the ADEMCO 4285/4286 VIP Module.
- Provides access to the system via on-premises or off-premises phones for arming, disarming, etc., plus control of relay outputs.

### Optional Long-Range Radio

Allows all messages that have been programmed to go to the primary telephone number to be reported additionally to a 7720 PLUS, 7820 or 7835C radio.

### Alarm Output

- Provides a 12VDC, 2 AMP output that can drive the compatible sounders listed in *SECTION 13: Specifications and Accessories* (assumes a fully charged battery is connected).
- Steady output for burglary/panic, or temporal pulse sounding output for fire notification, as required by UL.
- Uses current-limiting circuitry for protection.

### Auxiliary Power Output

- Provides 12VDC, 500mA maximum. Uses current limiting circuitry for protection.
- This output interrupts for smoke detector reset if 4-wire smoke detectors are used.

### Programming

- Programmed options are stored in electrically erasable, nonvolatile EEPROM memory (information can be reprogrammed at any time and will not be lost in the event of a power loss).
- The system can be uploaded, downloaded, or controlled via an IBM-compatible computer, using ADEMCO's *Compass* Windows downloading software, and a modem specified by ADEMCO.

### Keypad programming consists of:

- Data field programming.
- Interactive (menu) mode programming.

For programming from a keypad, a 6139 2-line alpha keypad must be connected (but need not stay in the system).

### Communication Formats Supported

- ADEMCO Low Speed (Standard or Expanded)
- Sescoa/Radionics (Standard or Expanded)
- ADEMCO Express
- ADEMCO Contact ID®

### Zone Descriptors

You can assign alpha descriptors to all zones (useful only when using alpha keypads and/or the 4285/4286 VIP Module).

### AC Power Supply

Uses No. 1321, 120VAC plug-in transformer with 16.5VAC 25VA output (1321CN in Canada).

### Backup Battery

Rechargeable (Sealed Lead Acid) 12VDC, 4AH minimum.

# Installing the Control & Peripherals

## Cabinet and Lock Installation

UL

For Residential Fire and/or Burglary installations, use the ADEMCO RES-UL cabinet. For Commercial Burglary installations, use the ADEMCO COM-UL cabinet.

Before installing the cabinet's contents, remove the metal cabinet knockouts required for wiring entry. Do not attempt to remove the knockouts after the circuit board has been installed.

1. Mount the control cabinet to a sturdy wall in a clean, dry area that is not readily accessible to the general public using fasteners or anchors (not supplied), in the four cabinet mounting holes.
2. Remove cabinet door, then remove the lock knockout from the door. Insert the key into the lock.
3. Position the lock in the hole, making certain that the latch will make contact with the latch bracket when the door is closed.
4. When correctly positioned, push the lock until it is held securely by its snap tabs.

**Notes:**

- Use an ADEMCO No. N4445 Lock.
- The cabinet can be closed and secured without a lock by using 2 screws in the cover's edge.

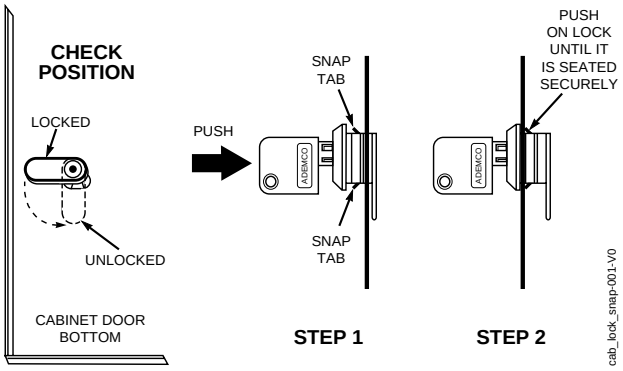



***Figure 2-1. Installing the Cabinet Lock***

## Mounting the PC Board Alone

**(no RF Receiver)**

1. Hang two mounting clips (provided) on the raised cabinet tabs (see Detail B in Figure 2-2).
2. a. Insert the top of the circuit board into the slots at the top of the cabinet. Make sure that the board rests on the correct row (see Detail A below).
   b. Swing the base of the board into the mounting clips and secure the board to the cabinet with the accompanying screws (see Detail B).

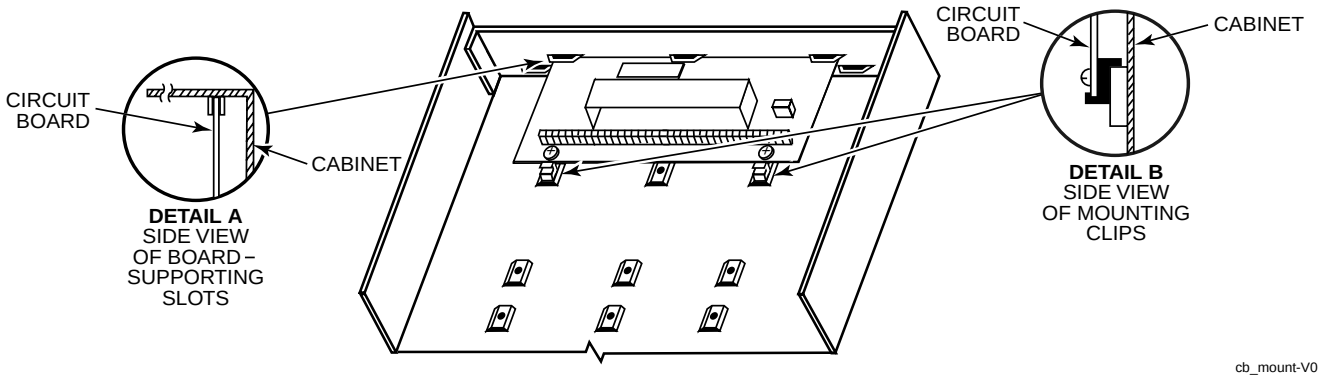



***Figure 2-2. Mounting the PC Board***

## Mounting Control with RF Receiver

To mount the control panel and RF receiver boards together in the cabinet, do the following:

1. Hang two mounting clips (provided with receiver) on the raised cabinet tabs, as indicated in the upper left diagram in Figure 2-3.
2. Insert the top of the receiver board (removed from its own case as described in *its* instructions) between the rows of slots at the top of the cabinet, as shown in Detail A.
3. Position the base of the receiver board onto the mounting clips and secure both to the cabinet with the supplied screws.
4. Hang two mounting clips (supplied with the control board), on the raised cabinet tabs as shown in Figure 2-3.
5. Insert the top of the control board into the slots of the mounting clips secured in step 3 above.
6. Position the lower end of the control board into place on the mounting clips and secure both to the cabinet with the two supplied screws.
7. Insert both grounding lugs (supplied with the receiver) through the top of the cabinet into the *left-hand* terminals of the antenna blocks (located at the upper edge of the receiver board), and secure them to the cabinet with the screws provided, as shown in Detail B.
8. Insert the receiver's antennas through the top of the cabinet, into the blocks' *right-hand* terminals, and tighten the screws.

Refer to setup and wiring instructions for the receiver in the *Installing the 5881/5882 Receiver* paragraph later in this section.

### NOTES

- Do not mount the cabinet on or near metal objects. This will decrease RF range and/or block RF transmissions from wireless transmitters.
- Do not locate the cabinet in an area of high RF interference (revealed by frequent or prolonged lighting of the LED in the receiver after it is operational (random flicker is OK)

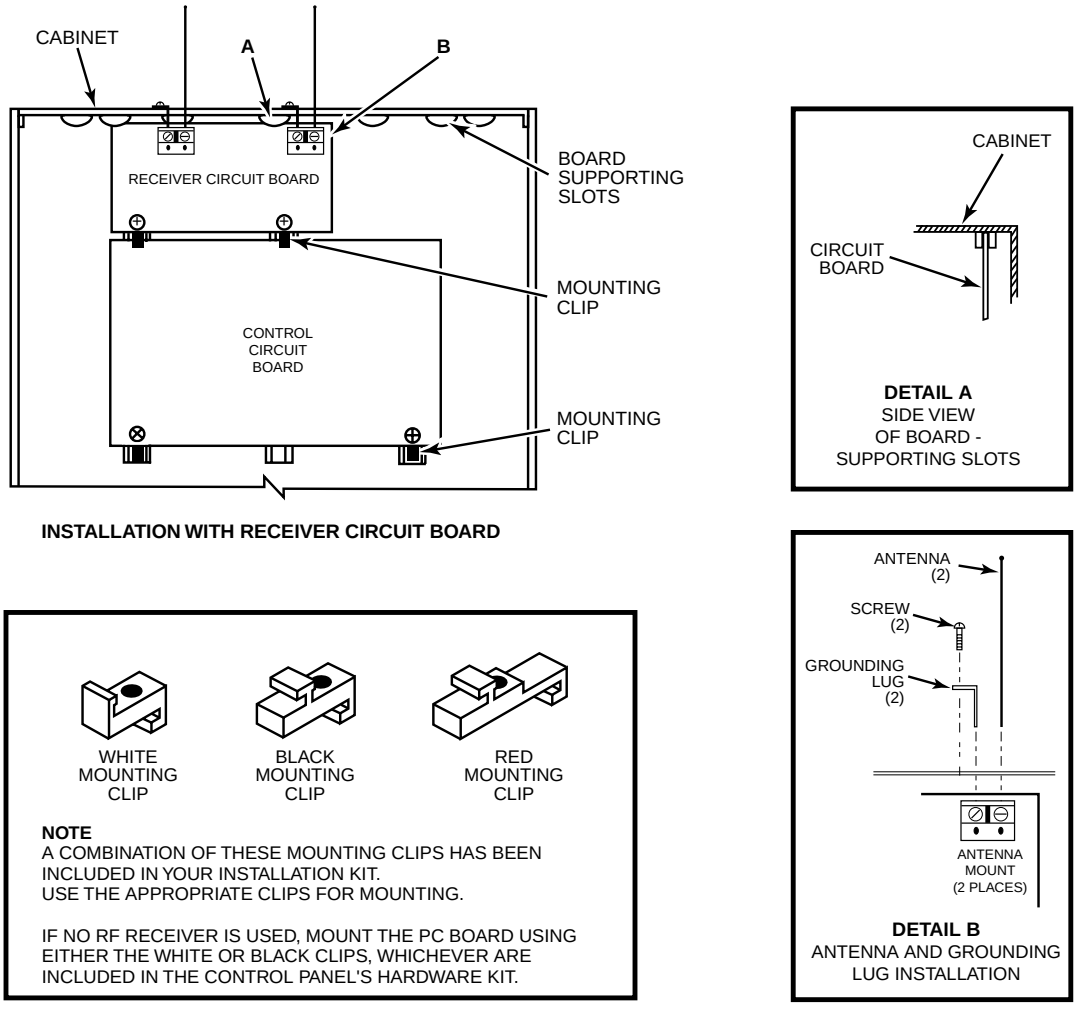



***Figure 2-3. Mounting the PC Board and RF Receiver***

## Mounting the Keypads

1. **Make sure addressable-type keypads** (6128, 6137, 6138, and 6139) are set to non-addressable mode (address 31), which is the factory default setting. Refer to the instructions provided with the keypad for address setting procedure.
2. **Mount the keypads** at a height that is convenient for the user. Refer to the instructions provided with the keypad for mounting procedure.

   You can either surface mount or flush mount keypads (using an appropriate Trim Ring Kit: 6139TRK). Refer to the mounting instructions and template included with the keypad and/or trim ring kit for specific information.

If you are going to use a 4285/4286 VIP Module, you MUST use addressable keypads (6128, 6137, 6138, 6139) in the system, but set to the non-addressable mode (address 31).

## Wiring the Keypads

1. Determine wire gauge by referring to the wiring length/gauge chart on the next page.

   For devices (keypads, RF receivers, etc.) connected to a single 4-wire run, determine the current drain of all units connected to the single wire run, then refer to the Wiring Run chart to determine the maximum wire length that can be safely used for each wire size. Current drain for all devices can be found in *SECTION 13: Specifications and Accessories*.

**NOTE:** Refer to "Auxiliary Device Current Drain Worksheet" later in this section for current drain of all supportable devices.

**Wiring Run Chart for Devices* Drawing Aux Power From the Control (12V+ & 12V–)**

| | TOTAL CURRENT DRAIN OF ALL DEVICES CONNECTED TO A SINGLE WIRE RUN | | | |
|---|---|---|---|---|
| **Wire Size** | **50mA or less** | **100mA** | **300mA** | **500mA** |
| #22 | 500 ft (152m) | 250 ft (76m) | 80 ft (24m) | 50 ft (15m) |
| #20 | 750 ft (228.6m) | 380 ft (116m) | 130 ft (39.6m) | 80 ft (24m) |
| #18 | 1300 ft (396m) | 650 ft (198m) | 220 ft (67m) | 130 ft (39.6m) |
| #16 | 1500 ft (457m) | 1000 ft (305m) | 330 ft (100.5m) | 200 ft (70m) |

* Includes keypads, RF receivers, relay units, and 4285/4286 VIP Modules

The length of all wire runs must not exceed 1500 feet (457m) when unshielded quad conductor cable is used (750 feet if shielded cable is used). This restriction is due to the capacitive effect *on the data lines* when quad cable is used.

2. Run field wiring from the control to the keypads (using standard 4-conductor twisted wire cable using the wire gauge determined in step 1).
3. Connect remote keypads to terminals 4, 5, 6, and 7 on the control board, as shown in *Figure 2-4*.

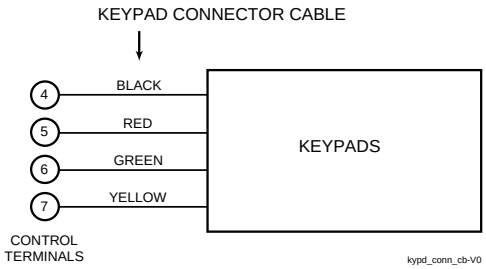



***Figure 2-4. Keypad Connections to the Control Board***

## Supplementary Power (Optional)

The control provides 500mA for powering keypads (up to a maximum of 4) and other devices from the auxiliary power output. The backup battery would supply power to these keypads in the event that AC power is lost.

When the control's auxiliary power load for all devices exceeds 500mA, you can power additional keypads from a regulated, 12VDC power supply (e.g., 487-12 supplies 12V, 250mA; 488-12 supplies 12V, 500mA). Use a UL Listed, battery-backed supply for UL installations.

Keypads powered from supplies that do not have a backup battery **will not function** when AC power is lost. Therefore, be sure to power at least one keypad from the Control's auxiliary power output.

Connect the additional keypads as shown in Figure 2-5, using the keypad wire colors shown. Be sure to observe the current ratings for the power supply used.

Be sure to connect the negative (–) terminal on the Power Supply unit to terminal 4 (AUX – ) on the control.

**UL** Use a UL listed, battery-backed supply, for UL installations. The battery supplies power to keypads in case of AC power loss.

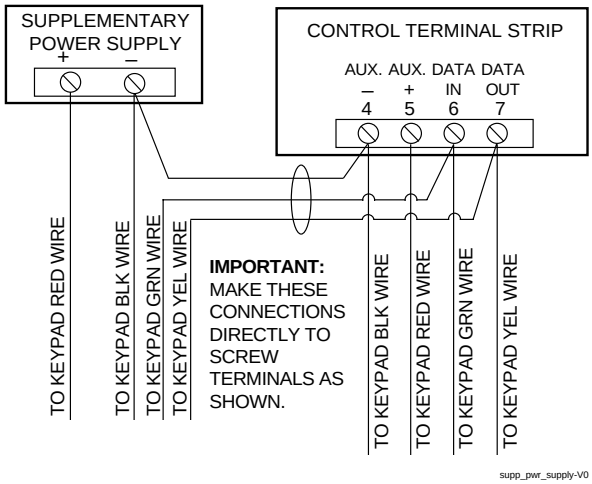



***Figure 2-5. Using a Supplementary Power Supply for Keypads***

## Sounder (Bell) Connections

1. Make sounder connections to alarm output terminals 3 (+) and 4 (–) on the control panel.

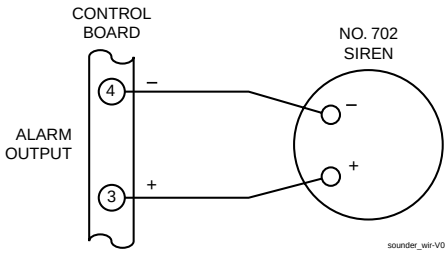



***Figure 2-6. Typical Sounder Wiring***

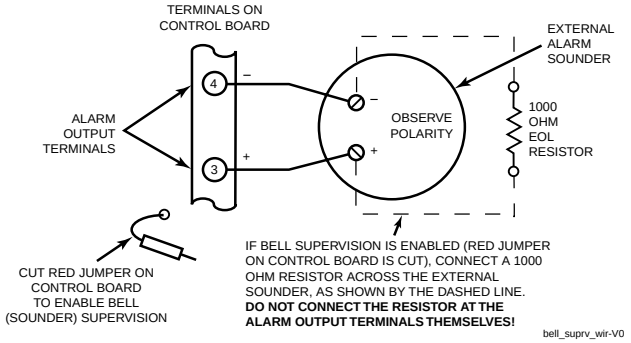



***Figure 2-7. Sounder Wiring (Supervised)***

**For supervised output, continue with steps 2 and 3.**

2. Cut the red Bell Supervision Jumper located above terminals 2 and 3 on the control board as indicated in Figure 2-7.
3. Connect a 1k ohm resistor across the terminals of the last sounder, not across the control's terminals.

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

**NOTES:**

- The 12VDC sounder output activates when an alarm occurs.
- Total current drawn from this output cannot exceed 2 amps (going beyond 2 amps will overload the power supply, or may cause the electronic circuit protecting the sounder output to trip).
- You must install a battery, since the battery supplies this current.

**UL**

- Use only UL Listed sounding devices for UL installations mounted indoors.
- The total current drawn from the alarm output and the auxiliary power output, combined, cannot exceed 600mA. In addition, the sounding device must be a UL Listed audible signal appliance rated to operate in a 10.2-13.8 VDC voltage range, and must be mounted indoors.

## Wiring the AC Transformer

### 1321 Transformer

Wire the 1321 Transformer to terminals **1** and **2** on the control board. Refer to wiring table at right for wire gauge to use.

| WIRING TABLE | |
|---|---|
| **Distance of Transformer From the Control Panel** | **Wire Gauge to Use** |
| Up to 50 feet | # 20 |
| 50 – 100 feet | # 18 |
| 100 – 250 feet | # 16 |

### AC Powerup

To turn on AC power, perform the following steps:

1. Plug the 1321/1321CN into a 24-hour, **unswitched** 120VAC outlet.

   Following powerup, one of the following is displayed on the keypad: **AC**, **dI** (disabled), **BUSY STANDBY** (on alpha keypads), or **NOT READY** (on fixed-word keypads). The green POWER LED (or READY LED on some keypads) should light.

2. After approximately 1 minute, the initial displays revert to **DISARMED...READY TO ARM** for alpha keypads, or **READY** for fixed-word keypads (if there are no faulted zones). This 1-minute delay allows PIRs, etc. to stabilize.

To bypass this delay, press: **#** + **0**.

**NOTE:** If you do not get the "READY" display described above, refer to "Trouble Conditions" paragraph in *SECTION 10: System Operation*.

### Backup Battery

1. Place the 12-volt backup battery in the cabinet.
2. After all connections to the control are completed, connect the red and black flying leads on the control board to the battery. Do **NOT** attach these leads to the battery terminals until all connections and wiring have been completed.

### Notes:

- Refer to the California State Fire Marshal and UL Residential Fire requirements statement below, if applicable.

**UL** Only use a 17.2AH battery for UL installations.

**OUTPUT LIMITATIONS TO MEET CSFM 24 HOUR BATTERY BACKUP REQUIREMENTS AND UL RESIDENTIAL FIRE INSTALLATIONS**

| OUTPUT CURRENT LIMITATIONS | | BATTERY INFORMATION | |
|---|---|---|---|
| Output Current Total | Maximum Auxiliary Current | Battery Capacity To Use (Amp/Hrs) | Recommended Battery (Yuasa Model No.) |
| 600mA maximum total of auxiliary power plus bell output currents | 45mA | 4AH | NP4-12 |
| | 160mA | 7AH | NP7-12 |
| | 200mA | 8AH | NP4-12 (two) ‡ |
| | 425mA | 14AH | NP4-12 (two) ‡ |
| | 500mA | 17.2AH | NPG18-12 |

‡ **NOTE:** Use two batteries, connected in parallel. Obtain an ADEMCO Battery Harness Kit SA5140-1. (Both batteries will fit inside the panel's cabinet.)

**AUXILIARY DEVICE CURRENT DRAIN WORKSHEET**

| DEVICE | CURRENT | # UNITS | TOTAL CURRENT |
|---|---|---|---|
| 6128 Keypad | 30mA | | |
| 6139 Keypad | 100mA | | |
| 5881/5882 RF Receiver | 35mA | | |
| 4204 Relay Unit | 15/180mA‡ | | |
| 4285 VIP Module | 160mA | | |
| 4286 VIP Module | 300mA | | |
| * | | | |
| | | | |
| | | | |
| | | | |
| | | **TOTAL =** | |
| | | Current available from Aux. terminals = 500mA max † | |

* If you are using hardwire devices such as PIRs, refer to the specifications for that particular unit's current drain.

† In UL installations, max current drain from the Auxiliary Output and the Alarm Output **combined** must not exceed 600mA.

‡ Figures are for relays de-energized (OFF)/relays energized (ON).

## Earth Ground Connections

**Metal Cold Water Pipe:**

Use a non-corrosive metal strap (copper is recommended) firmly secured to the pipe to which the ground lead is electrically connected and secured.

**AC Power Outlet Ground:**

Available from 3-prong, 120VAC, power outlets only. To test the integrity of the ground terminal, use a three-wire circuit tester with neon lamp indicators, such as the UL-Listed Ideal Model 61–035, or equivalent, available at most electrical supply stores.

## Installing the Hardwired Zones

### Common Characteristics for Zones 1–6

- Response time from 300 - 500 milliseconds (400 milliseconds nominal)
- Zone 3 can be programmed (in field ✶52) for normally-closed sensor fast response (10mSec max) to an open (suitable for vibration type contacts). Default response is 400mSec nominal, which should be used for most standard contacts
- EOLR supervised zones support both open-circuit and closed-circuit devices.
- As many 4-wire smoke detectors as can be powered from Aux Power on the control (on zone 5).

### Wiring Burglary and Panic Devices to Zones 1–6

To wire burglary and panic devices to zones 1-6, perform the following steps, referring to the VISTA-10SE Summary of Connections diagram located on the inside back cover of this manual.

1. Connect sensors/contacts to the hardwired zone terminals (8 through 16). See the Summary of Connections diagram.
2. Connect closed circuit devices in series in the high (+) side of the loop. The EOL resistor must be connected in series with the devices, following the last device. See the Summary of Connections diagram.

Connect open circuit devices in parallel across the loop. The 1000 ohm EOLR must be connected across the loop wires ***at the last device***.

If the EOLR is not at the end of the loop, the zone will not be properly supervised, and the system may not respond to an open circuit on the zone.

## Smoke Detectors

### Wiring 4-Wire Smoke Detectors on Zone 5

The system will support as many 4-wire detectors as can be powered from Auxiliary Power on the control on zone 5. Refer to the detector's instructions for complete details regarding its proper installation and operation.

1. Connect 12-volt power for the detectors from Auxiliary Power terminals **4** and **5** (which will interrupt power for fire alarm reset). Observe proper polarity when connecting detectors. See Figure 2-8.
2. Connect detectors (including heat detectors, if used) across terminals of zone 5. All detectors must be wired in parallel.

Remove 1000 ohm EOL resistor if connected across the zone terminals. You must connect the EOL resistor across the loop wires at the last detector.

3. To meet NFPA 72 requirements, you must use a supervisory module to supervise power (e.g., System Sensor No. A77-716B Relay module).

UL 4-Wire Smoke/Combustion detectors are **not** permitted in UL installations.

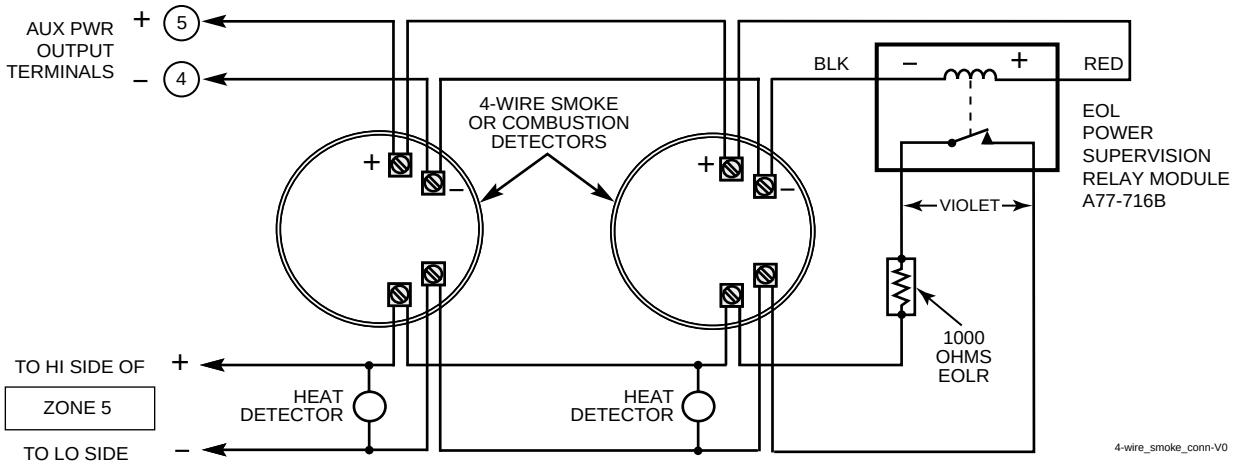



***Figure 2-8. 4-wire Smoke Detector Connections (Zone 5)***

## Installing the 5881/5882 Receiver

### RF System Installation Advisories

Follow the guidelines below when installing the RF receiver. (Disregard if the receiver is mounted in the control cabinet.)

- Place the RF receiver in a high, centrally located area for best reception.
- Do not locate the receiver or transmitters on or near metal objects. This decreases range and/or blocks transmissions.
- Do not locate the receiver in an area of high RF interference (revealed by frequent or prolonged lighting of the LED in the receiver; random flicker is OK).

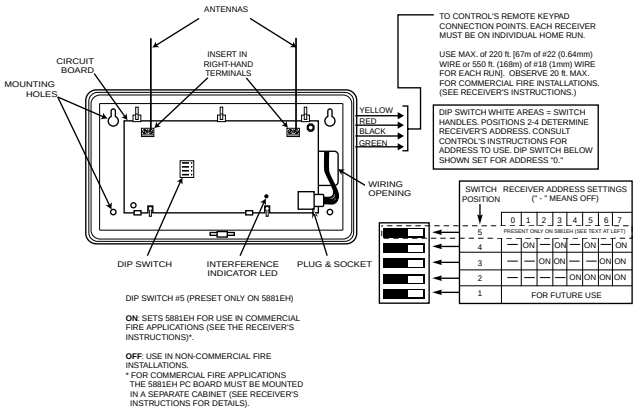



***Figure 2-9. 5881/5882 RF Receiver***

**The RF receiver must be at least 10 feet from any remote keypad to avoid interference from the microprocessors in those units.**

### Installation and Setup of the 5881/5882 Receiver

To install the receiver, perform the following steps and refer to Figure 2-9:

1. Set the receiver's DIP switches for device address 0, (all switches are in the OFF position).
2. Mount the receiver. The RF receiver can detect signals from transmitters within a nominal range of 200 feet. Take this into consideration when determining mounting location.
3. Connect the receiver's wire harness to the control's keypad terminals (4, 5, 6, and 7). Plug the connector at the other end of the harness into the receiver.
4. Refer to the installation instructions provided with the receiver for further installation procedures regarding antenna mounting, etc.

**In Canada**, 5800 systems must use 5882 Series receivers. Information relative to the 5881 Series of receivers applies as well to the 5882 Series. 5881 and 5882 Series receivers can support the same 5800 type transmitters.

Any zone *number* from 10–25 can be used as a 5800 Series wireless zone.

### Jam Detection and Reporting

When field ✶22, option 4 (RF SYSTEM) is selected, a 5800 Series receiver detecting a jam condition sends an **E344** (RF Receiver Jam Detect) Contact ID® report to the central station. At the same time, a **Rcvr Jam** (on alpha keypads) or **CHECK 90** (on fixed-word keypads) message alternates with the present system message on the keypad.

When the jam condition is cleared, a **Restore** message is sent to the CS. Entering a code and OFF restores the keypad display.

The default for this option is 0 (disabled).

**UL** RF Jam Detection must be enabled for UL installations using wireless devices.

**Note:** when RF jam detection is selected, an RF receiver will detect a condition that may impede proper RF reception (i.e., jamming or other RF interference). Such a condition will produce a message display, and a report will be sent to the central monitoring station (if trouble reporting is enabled).

Normal use of a 5827 wireless keypad may cause a false RF jam message to be displayed in systems that have been programmed for RF Jam Detection.

### Receiver Supervision

The receiver is supervised. The following conditions cause a Trouble report to be generated and **CHECK** and **ZONE 09** messages to be displayed:

- Communication between the panel and the receiver is interrupted.
  **or**
- No valid RF signals from at least one supervised wireless transmitter are received within 12 hours.

### House Identification

If you are using a 5804BD, 5827, or 5827BD Wireless Keypad with the system, you must program a House ID Code (01-31) in field ✶24 to establish proper communication. The keypad must be set to the same ID.

House ID set to 00 disables **all** wireless keypads.

### Installing the 5800TM Module

Installation of this module is necessary only if you are using one or more 5827BD Wireless Bi-directional keypads, or 5804BD Transmitters (wireless keys). Do not cut any of the jumpers on the 5800TM when using it with the VISTA-10SE.

For additional information, refer to the 5800TM's instructions.

### Mounting the 5800TM Module

The 5800TM must be located near the RF receiver (between one and two feet away from the receiver's antennas).

The 5800TM must **not** be installed within the control cabinet. Mount the unit using its accompanying mounting bracket.

### Wiring the 5800TM Module

Connect the 5800TM to the control panel's keypad connection terminals, using the supplied connector with flying leads, as follows:

| Wire | Terminal on Control |
|---|---|
| BLACK (Ground) | Terminal 4 |
| RED (+12VDC) | Terminal 5 |
| GREEN (Data to Control) | Terminal 6 |
| YELLOW (Data from Control) | Terminal 7 |
| BLUE | Not Used |

## Installing Other 5800 Series Transmitters

1. To be sure reception of the transmitter's signal at the proposed mounting location is adequate, perform a Go/No Go Test, described in *SECTION 11: Testing the System*.
2. Install transmitters in accordance with the instructions provided with each.
3. Set 5827, 5827BD, 5804BD transmitters to the programmed House ID, using its DIP switches.

**UL** 5816 and 5817 transmitters do not have EOL supervision of their loop wiring. Therefore, for UL Household Burglary installations, the loop wiring may not exceed 3 feet.

### Transmitter Supervision

Except for some transmitters that may be carried off-premises (5802, 5802CP, 5803, 5804, 5804BD, 5827, and 5827BD), each transmitter is supervised by a check-in signal that is sent to the receiver at 70-90 minute intervals. If at least one check-in is not received from each supervised transmitter within a 12-hour period, the "missing" transmitter number(s) and the message **CHECK** is displayed.

**NOTE:** Refer to the listing of compatible devices in *SECTION 13: Specifications and Accessories*.

c UL us In accordance with ULC standards, the RF supervision period for the VISTA-10SE is three hours for fire zones (Zone Type 9) and 12 hours for all other zone types.

**UL** The following transmitters are not intended for use in UL installations: 5802, 5802MN, 5802MN2, 5804, 5804BD, 5814, 5816TEMP, 5819, 5819WHS & BRS, 5827BD, and 5850.

The supervision for a particular transmitter in the system that may also be carried off the premises (5801, 5802MN), may be turned off by enrolling it as a "UR" (unsupervised RF) type, as described on next page.

5800 Series transmitters have built-in tamper protection and annunciate as a CHECK condition if covers are removed.

### Transmitter Battery Life

- Batteries in the wireless transmitters may last from 4 to 7 years, depending on the environment, usage, and the specific wireless device being used. Factors such as humidity, extreme temperatures, as well as large temperature variations may all reduce the actual battery life in a given installation. The wireless system can identify a true low battery situation, thus allowing the dealer or user of the system time to arrange a change of battery and maintain protection for that given point within the system.
- Some transmitters (e.g., 5802 and 5802CP) contain long-life but non-replaceable batteries, and no battery installation is required. At the end of their life, the complete unit must be replaced (and a new serial number enrolled by the control).
- Button-type transmitters (such as 5801, 5802, and 5802CP) should be periodically tested for battery life.
- The 5802MN and 5804 Button Transmitters have replaceable batteries.

Do not install batteries in wireless transmitters until you are ready to enroll during system programming. After enrolling, batteries need not be removed.

### Transmitter Input Types

All of the transmitters described have one or more unique, factory-assigned input (loop) ID codes. Each of the inputs requires its own programming zone (for example: a 5804's four inputs require four programming zones). Refer to *SECTION 5: Zone Programming.* Transmitters can be enrolled as one of the following types:

| Type | Description |
|---|---|
| **RF (Supervised RF)** | Sends periodic check-in signals, as well as fault, restore, and low battery signals. The transmitter must remain within the receiver's range. |
| **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. |
| **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. |

### Using the Transmitter Sniffer Mode

The Transmitter Sniffer mode is a procedure that verifies that all transmitters have been properly programmed.

To verify programming, refer to *SECTION 11: Testing the System*.

## Installing the 4204 Relay Module

1. Mount outside of the control panel's cabinet.
2. Connect to control's keypad terminals using the connector harness supplied with the module. Use standard 4-conductor twisted cable for long wiring runs.
3. Set each of the module's four relays address to 12, 13, 14, and 15 (corresponding to relays 1 through 4 respectively).
4. Connect the desired field wiring to the unit's relay contact terminals as indicated in Figure 2-10.

**NOTES:**

- **Supervision:** 4204 modules are supervised against removal.
  The module's device address is displayed as follows if a module is disconnected from the control's terminals, or if the module cover is removed and the tamper jumper is installed:
  Alpha keypads: DEV xx Wire Expansion Fault
  Fixed-Word keypads: lxx
  where "xx is the module's address.

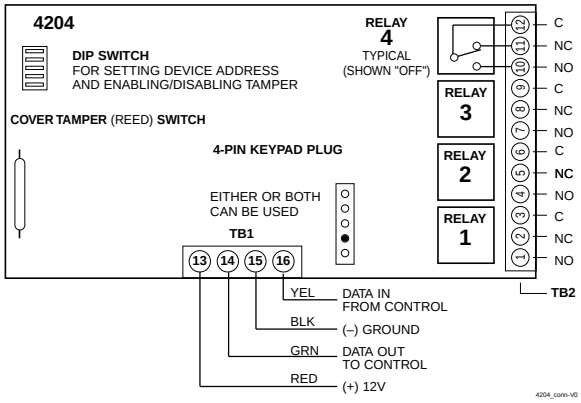



***Figure 2-10. 4204 Connections to Control***

## Installing a 4285 or 4286 VIP Module

1. Connect incoming phone line and handset wiring to the main terminal block (via an RJ31X jack) as shown in Figure 2-11 and in the Summary of Connections diagram at the back of this manual. Wire colors represent the colors of the cable to the RJ31X jack.
2. Make ±12VDC and data in/data out connections from the control using the connector cable supplied with the phone module, then insert the keyed connector into the header on the phone module.
3. Connect Phone Module terminals as shown in Figure 2-11. Use an RJ31X jack with a direct-connect cord and make all connections as shown.
4. Caller ID Units: If a Caller ID unit is being used, connect the unit directly to the "Handset" terminals (17 and 18) on the control, as shown.

**NOTES:**

- Use a 4285 **or** 4286 VIP (Phone) Module.
- Only **one phone module can be used** and it can only be connected as shown in Figure 2-11.
- The phone lines must be in service for the phone module to function, even when accessing the system from an on-premises phone.
- If you are also using an Audio Alarm Verification (AAV) unit, refer to Audio Alarm Verification (AAV) paragraph later in this section for special wiring connections.

**UL** VIP Modules are **not** Listed for UL installation use.

### Phone Module Problems

If no touch tones are produced following access to the security system from on-premises (this problem may arise in rare cases), it may be necessary to reverse the wires connected to terminals 3 and 4 on the Phone module and the wires connected to terminals (17) and (18) on the control. The wiring diagram that follows shows the wiring connections that will provide proper operation in most cases.

Connection to the incoming telco line via a RJ31X jack and direct-connect cord, as shown in Figure 2-11, is essential, even if the system is not connected to a central station. The 4285 or 4286 will not function if this is not done and an error signal (fast busy signal) will occur when trying to access the system via the phone.

The house phone lines (gray and brown wires) must be wired to the phone module terminals; not to the control terminals. Otherwise, an error (fast busy signal) will occur when trying to access the system from an on-premises phone.

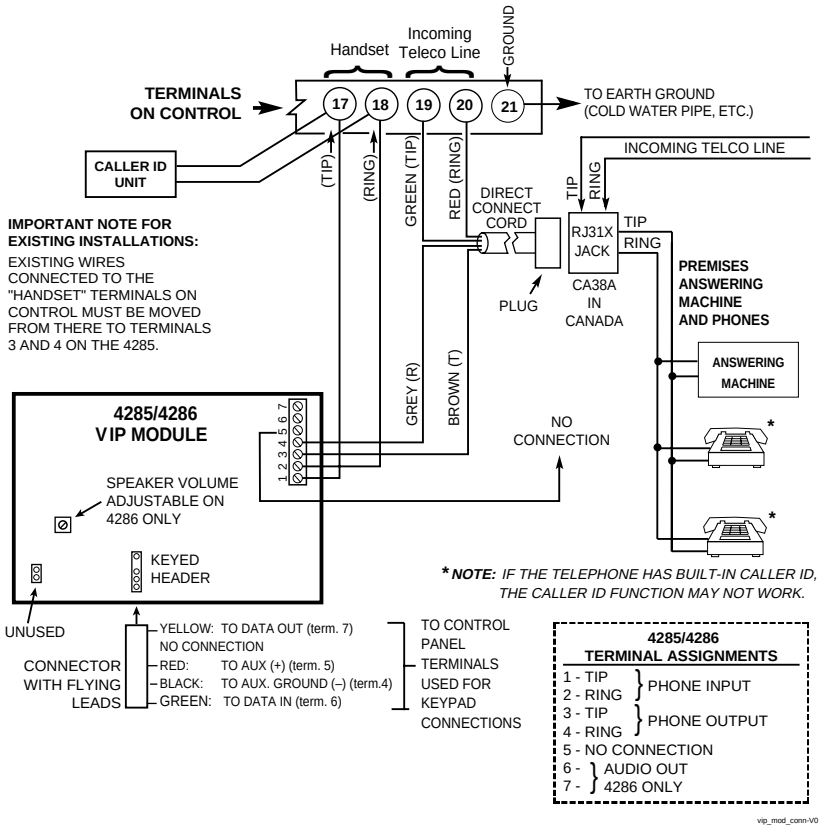



***Figure 2-11. 4285/4286 VIP Module Wiring Connections***

## Standard Phone Line Connections

Connect incoming phone line and handset wiring to the main terminal block via an RJ31X jack (CA38A jack in Canada) as follows and as shown in Figure 2-12:

Term. 17: Local Handset (TIP – Brown*)

Term. 18: Local Handset (RING – Gray*)

Term. 19: Incoming Phone Line (TIP – Green*)

Term. 20: Incoming Phone Line (RING – Red*).

* Colors of wires in Direct Connect Cord

The wiring connections shown in Figure 2-12 are not applicable if a 4285/4286 VIP Module is used.

Refer to the *Installing a 4285 or 4286 VIP Module* paragraph earlier in this section for proper wiring information.

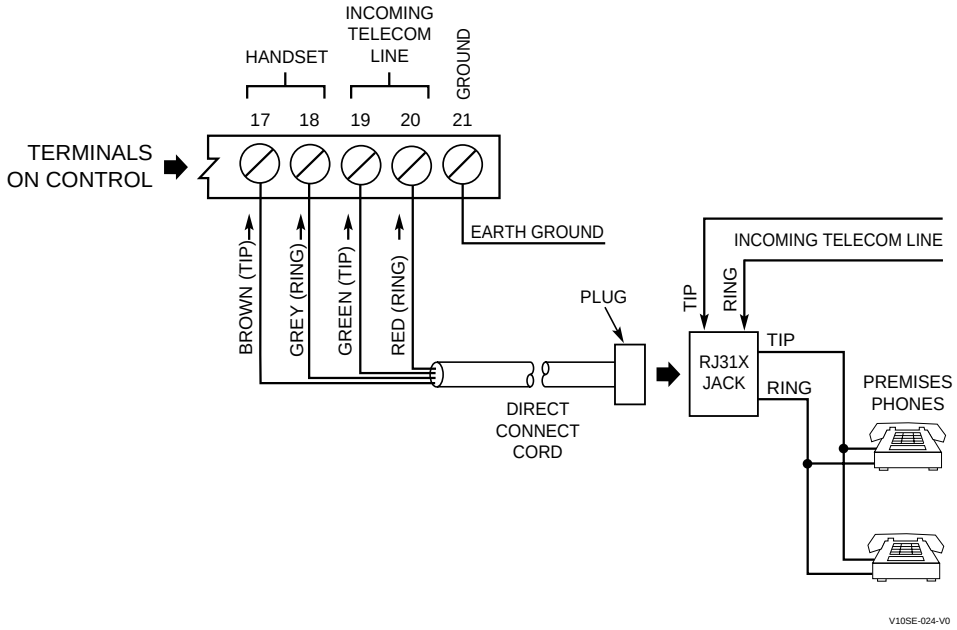



***Figure 2-12. Standard Telephone Line Connections***

## Long-Range Radio Connections

If output to Long-Range Radio (LRR) is selected, all messages that are programmed to go to the primary telephone line receiver are also sent to any LRR that can operate in ECP mode.

### Wiring Connections

Connect the data in/data out terminals and voltage input terminals of the Long Range Radio to the control's keypad connection points, terminals.

For complete information, see the manual that accompanies the radio.

**NOTES:**

- Use 7720PLUS, 7820, or 7835C Long Range Radios
- Messages are sent in Contact ID® format (not affected by entry in field ✶46).

You must enable field ✶27, OUTPUT TO LONG-RANGE RADIO, if this feature is to function.

**UL** For UL installations, Long-Range Radio **must** be disabled (✶27 = 0).

The VISTA-10SE control panel features Dynamic Signaling Delay (DSD) and Dynamic Signaling Priority (DSP) message reporting when Long-Range Radio is used. Refer to field ✶93 in *SECTION 4: Data Field Programming* for further details.

## Audio Alarm Verification (AAV) Connections

### Wiring Connections

Refer to the connection diagrams below. Figure 2-13 shows connections when a 4285/4286 VIP (Phone) Module is not used, Figure 2-14 shows connections when the 4285/4286 is used.

**UL** The AAV option **cannot** be used in UL installations.

**NOTES:**

- Suggested AAV Module: Eagle 1250
- To enable the AAV feature, enter option "4" in field ✶91 Option Selection (AAV)
- Select Contact ID® report format to primary phone number
- Program alarm reports for the primary phone number.
- You **must** connect a 4204 relay module when using an AAV unit, as shown in the following diagrams.

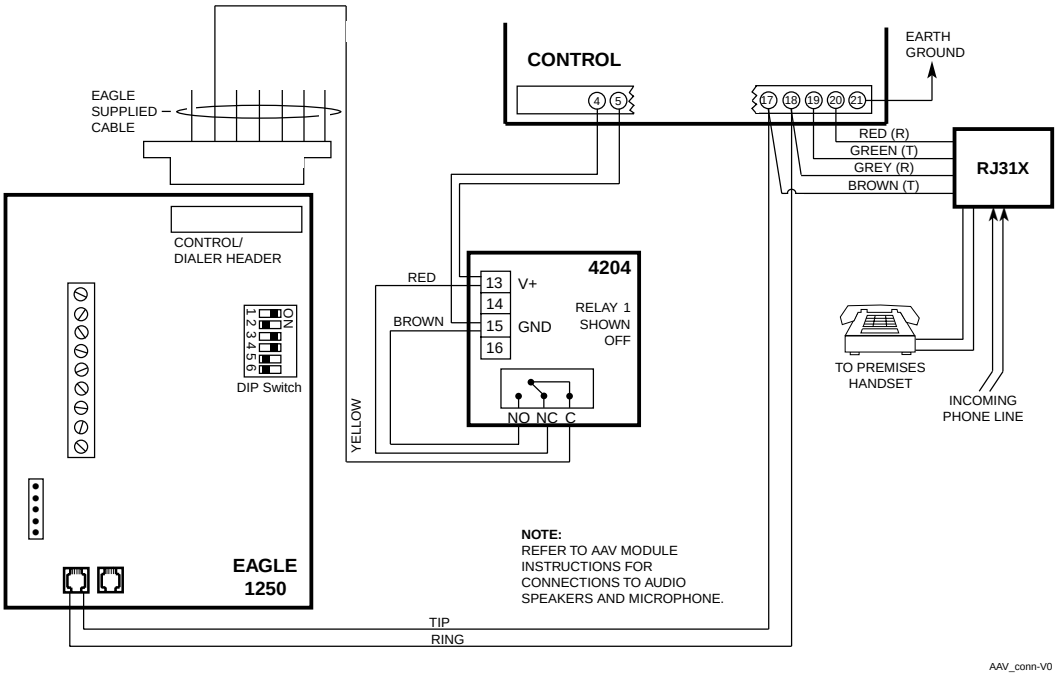



***Figure 2-13. Connection of AAV Unit When Not Using a 4285/4286 VIP Module***

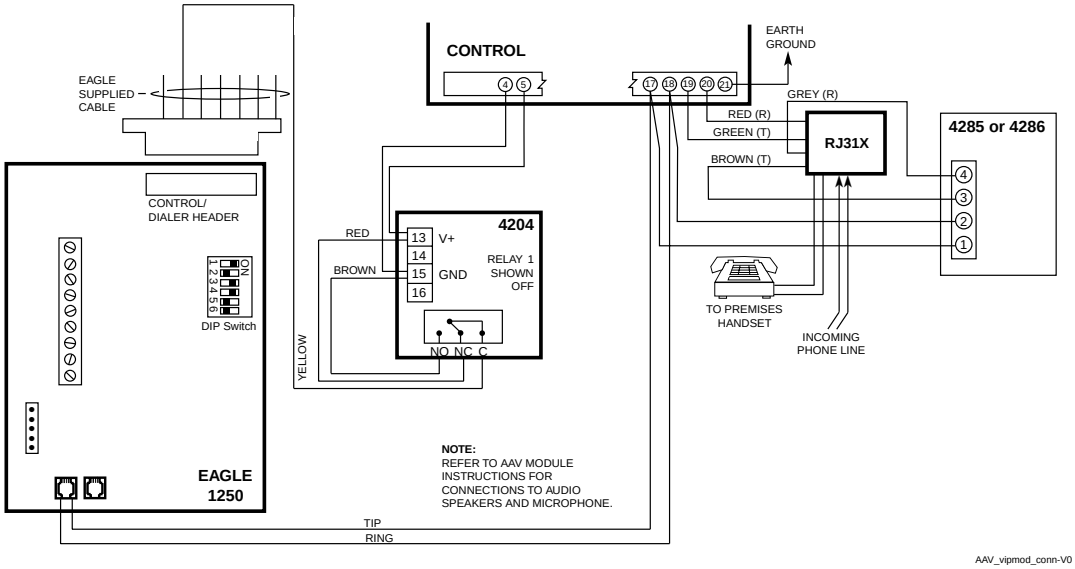



***Figure 2-14. Connection of AAV Unit When Using a 4285/4286 VIP Module***

# Programming Overview

## About Programming

You can program the system at any time, even at the installer's premises prior to the actual installation. Programming can also be performed remotely from the installer's office/home, using an IBM personal computer, a modem, and Compass downloading software.

The following is a list of the various Programming modes used to program this system:

| Programming Mode... | Used to ... |
|---|---|
| Data Field Programming | Program basic data fields used for setting the various system options. Some of the data fields in this system have been programmed by default for specific values. However, other fields must be programmed for each particular installation to establish its specific alarm and reporting features. |
| ✶56 Zone Programming | Assign zone characteristics, report codes, alpha descriptors, and serial numbers for 5800 RF transmitters in step-by-step procedural form. |
| ✶58 Expert Mode Programming | Assign zone attributes similar to ✶56 mode, while providing a faster programming procedure and is intended for use by those more experienced in programming controls of this type. |
| ✶80 Output Relay Programming | Program the 4204 Relay Module that contains 4 relays |
| ✶81 Zone List Programming | Program zone lists for relay control |
| ✶82 Alpha Programming | Create alpha descriptors for easy zone identification. |

## Zone Response Type Definitions

You must assign a zone type to each zone, which defines the way in which the system responds to faults in that zone. Zone types are defined below.

| Zone Type | Description/Characteristics |
|---|---|
| **Type 00**<br>**Zone Not Used** | Program a zone with this zone type if the zone is not used. |
| **Type 01**<br>**Entry/Exit Burglary** | Zone type 01 is usually assigned to sensors or contacts on primary entry and exit doors.<br>• Entry delay #1 is programmable from 0-99 seconds (field *35).<br>• Exit delay is independently programmable from 0-99 seconds (field *34).<br>• Exit and entry delays when armed in AWAY or STAY mode.<br>• No entry delay when armed in INSTANT or MAXIMUM mode.<br>• Exit delay regardless of the arming mode selected. |
| **Type 02** | This zone type is not used. |
| **Type 03**<br>**Perimeter Burglary** | Zone type 03 is usually assigned to all sensors or contacts on exterior doors and windows.<br>• Instant alarm when armed in AWAY, STAY, INSTANT, or MAXIMUM mode. |
| **Type 04**<br>**Interior Follower** | Zone type 04 is usually assigned to a zone covering an entry area (i.e.: foyer, lobby, or hallway) that one must pass upon entry (after faulting the entry/exit zone) to reach the keypad. It provides an instant alarm if the entry/exit zone is not violated first, and protects an area in the event an intruder has hidden on the premises before the system is armed, or gains access to the premises through an unprotected area.<br>• Delayed alarm (using the programmed entry/exit time) if entry/exit (type 01) or interior-with-delay (type 10) zone is faulted first.<br>• Instant alarm in all other situations.<br>• Active when armed in AWAY or MAXIMUM mode.<br>• Bypassed automatically when armed in STAY or INSTANT mode. |

| | |
|---|---|
| **Type 05**<br>**Trouble by Day/ Alarm by Night** | Zone type 05 is usually assigned to a zone that contains foil-protected doors or windows; or covers a sensitive area (e.g., stock room, drug supply room, etc.) It can also be used on a sensor or contact in an area where immediate notification of an entry is desired.<br>• Provides an instant alarm when armed in AWAY, STAY, INSTANT, or MAXIMUM (night) mode.<br>• Provides a latched trouble sounding from the keypad and, if desired, a central station report during the disarmed state (day). |
| **Type 06**<br>**24-hour Silent Alarm** | Zone type 06 is usually assigned to a zone containing an Emergency button.<br>• Sends a report to the central station but provides no keypad display or sounding. |
| **Type 07**<br>**24-hour Audible Alarm** | Zone type 07 is usually assigned to a zone containing an Emergency button.<br>• Sends a report to the central station, and provides alarm sounds externally and at the keypad. |
| **Type 08**<br>**24-hour Auxiliary Alarm** | Zone type 08 is usually assigned to a zone containing a button for use in personal emergencies or to a zone containing monitoring devices (e.g., water or temperature sensors, etc.).<br>• Sends a report to the central station and provides an alarm sound at the keypad. (No bell output is provided and there is no keypad timeout.) |
| **Type 09**<br>**Supervised Fire** | Zone type 09 can be assigned to any wireless zone used as a fire zone. This zone type is always active and cannot be bypassed.<br>• Bell output will pulse when this zone type is alarmed. |
| **Type 10**<br>**Interior w/Delay** | Zone type 10 is bypassed when the panel is armed in the STAY or INSTANT mode.<br>• Entry delay #1 (with programmed entry time) when armed in the AWAY mode.<br>• Entry delay begins whenever sensors in this zone are violated, regardless of whether an entry/exit delay zone was tripped first.<br>• No entry delay when armed in the MAXIMUM mode.<br>Exit delay regardless of the arming mode selected. |

| | |
|---|---|
| **Type 20**<br>**Arm–STAY** | Zone type 20 is a special-purpose zone type used with 5800 Series wireless pushbutton transmitters.<br>• Exit delay regardless of the arming mode selected.<br>• System is armed in the STAY mode when the zone is activated.<br>Zone number is sent to the central station as a user number when arming or disarming. |
| **Type 21**<br>**Arm–AWAY** | Zone type 21 is a special-purpose zone type used with 5800 Series wireless pushbutton units.<br>• System is armed in the AWAY mode when the zone is activated.<br>• Zone number is sent to the central station as a user number when arming or disarming. |
| **Type 22**<br>**Disarm** | Zone type 22 is a special-purpose zone type used with 5800 Series wireless pushbutton.<br>• Disarms the system when the zone is activated. |
| **Type 23**<br>**No Alarm Response** | Zone type 23 can be used when the action of a relay is desired, but with no accompanying alarm (e.g., a front or back door light being turned on or off). |

## Mechanics of Programming

**To program the system from a keypad:**

- You must use a 2-line Alpha display keypad.
- The panel must be disarmed.

## Data Field Programming Procedures

| Task | Procedure |
|---|---|
| Enter Program Mode | A) Press both [✶] and [#] at the same time within 50 seconds after power is applied to the control,<br>OR<br>B) After power-up, enter [Installer code (4-1-1-1)] + 8 + 0.<br>(method "B" is disabled if you exit the program mode using ✶98) |
| Go to a Data Field | Press [✶] + [Field Number] (for example, ✶21).<br>A display of "EE" or "Entry Error" means you have entered a nonexistent field.<br>Simply reenter [✶] plus a valid field number. |
| Enter Data | When the desired field number appears, simply enter the digits required. The keypad beeps three times after the last digit is entered and automatically displays the next data field in sequence.<br>If entering less than the maximum digits available (e.g., phone number field), enter the desired digits, then press [✶] and the next data field number to be programmed, to end the entry. |
| Review a Data Field | Press [#] + [Field Number].<br>That field's data is displayed, but no changes can be made. |
| Delete an Entry in a Field | Press [✶] + [Field No.] + [✶] (applies only to primary/secondary phone number, subscriber account number, and download telephone number fields). |

## Interactive Mode Programming (∗56, ∗58, ∗80, ∗81, and ∗82)

| | |
|---|---|
| Enter Interactive Mode | Press [✶] + [Interactive Mode No.] (for example, ✶56) while in Program Mode. The Alphanumeric display keypad will display the first of a series of prompts requesting entries.<br>After making the appropriate entry, press the [✶] key to accept the entry and continue to the next prompt. |

## Loading Factory Defaults/Initializing for Download

| | |
|---|---|
| To Load Default Entries | Press ✶97 while in Program Mode. This resets all data fields to the factory default values (if any). Use ✶97 only if you wish to return to the original factory-programmed defaults. |
| To Initialize Download ID | Press ✶96 while in Program Mode. This initializes the system for downloading and resets all the subscriber account numbers and CSID. |

Do not press ✶97 to load defaults if any programming has been done previously—data already programmed into the system will be changed!

## Exiting the Programming Mode

| | |
|---|---|
| Prevent Installer code reentry | Press ✶98. Exits Programming Mode and prevents reentry by:<br>Installer Code + [8] + [0]. To enter the programming mode if ✶98 was used to exit, you must first power the system down. Then power up again, and press [✶] and [#] at the same time, within 50 seconds of powering up. |
| Allow Installer code reentry | Press ✶99. Exits Programming Mode and allows reentry by:<br>Installer Code + [ 8] + [0] or by: Pressing [✶] and [#] at the same time, within 50 seconds of powerup. |

# Data Field Programming

## About Data Field Programming

The following pages list this control's data fields in numerical order. Field numbers are listed in the left column, followed by a "Title and Data Entries column, which lists the valid entries for each field. Experienced installers can simply follow this column when programming the data fields. The "Explanation" column provides explanatory information and special notes where applicable.

Use the blank programming form to record the data for this installation.

### Programming Data Fields

Data field programming involves making the appropriate entries for each of the data fields.

Start Data Field programming by entering the Installer code + 8 + 0.

**System Setup Fields ✶20 –✶27**

| FIELD | TITLE and DATA ENTRIES | EXPLANATION |
|---|---|---|
| ✶20 | **Installer Code**<br>Enter 4 digits, 0 - 9 | The Installer Code is used to assign the 4-digit Master Security Code. See "Master Code" in *SECTION 10: System Operation* for procedure. |
| ✶21 | **Quick Arm Enable**<br>0 = do not allow quick arm<br>1 = allow quick arm | If enabled, a user code is not needed to arm the system. Instead, users can press the [#] followed by an arming key to arm the system.<br>However, the user code is always needed to disarm the system. |
| ✶22 | **RF Jam Option**<br>0 = if no receiver is being used<br>2 = 5800 system receiver; no jam detection<br>4 = 5800 system receiver with jam detection | This option is enabled if a wireless receiver is used.<br>If enabled, a report is sent if the system detects an RF jamming signal. |
| ✶23 | **Forced Bypass**<br>0 = no forced bypass<br>1 = automatically bypass all faulted zones | All zones bypassed by this function will be displayed after the bypass is initiated.<br>UL installations must be set to 0 (no forced bypass) |
| ✶24 | **RF House ID Code**<br>00 = disable all wireless keypad usage<br>01-31 = House ID | 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 should be set to the same House ID. |
| ✶25 | **Output Relay Module**<br>0 = if no relay module will be used<br>3 = if a relay module is used | Enabled if a 4204 Relay Module (containing 4 Form C relays) is used in the system. |
| ✶26 | **Access Code for VIP (Phone) Module**<br>1-9 = first digit of access code<br>✶ or # = second digit of access code<br>(enter # +11 for "✶", or # +12 for "#") | You need to assign a 2-digit access code for the 4285/4286 VIP (Phone) Module, if used.<br>Example: If desired access code is 7✶ , 7 is the first entry, and [#] + 11 (for ✶) is the second entry.<br><br>**NOTE:** A "0" in either digit disables the phone module. |

| FIELD | TITLE and DATA ENTRIES | EXPLANATION |
|---|---|---|
| ✶27 | **Output To Long-Range Radio**<br>0 = not used<br>1 = using Long Range Radio output<br><br>UL installations must be set to 0 (Long Range Radio disabled). | If selected, all messages programmed to go to the primary telephone line receiver will also be sent to the connected 7720PLUS, 7820, or 7835 Radio (sent in Contact ID® format). The data line is supervised as well as certain functions in the radio. If communication is lost or a trouble develops, an attempt will be made to send a message via both radio and telephone to the central station.<br>Program the radio for device address 3. |
| **Zone Sounds and Timing (✶28 – ✶39)** | | |
| ✶28 | **Single Alarm Sounding Per Zone**<br>(per armed period)<br>0 = disabled<br>1 = enabled | Disabled provides no limit on alarm sounding per zone<br>If enabled limits alarm sounding to once per arming period for a given zone<br><br>UL installations must be set to 0 (no limit on alarm soundings). |
| ✶29 | **Fire Alarm Sounder Timeout**<br>0 = yes; fire sounder timeout after time programmed in field ✶30<br>1 = no fire sounder timeout; continue sounding until manually turned off | This control complies with NFPA requirements for temporal pulse sounding of fire notification appliances.<br>Temporal pulse sounding for a fire alarm consists of the following: 3 pulses – pause – 3 pulses – pause – 3 pulses. |
| ✶30 | **Alarm Sounder Timeout**<br>0 = No timeout 3 = 12 min<br>1 = 4 min 4 = 16 min<br>2 = 8 min | This field determines whether the external sounder will shut off after time allotted, or continue until manually turned off.<br><br>UL installations must be set for a minimum of 4 min (option 1). |
| ✶38 | **Entry Delay**<br>0 = 0 seconds 3 = 45 seconds<br>1 = 20 seconds 4 = 60 seconds<br>2 = 30 seconds 5 = 90 seconds<br>(Exit delay = Entry delay plus 15 seconds) | Upon entering, the system must be disarmed before the time entered expires, otherwise it sounds an alarm.<br>You must exit before the time entered (+ 15 seconds) otherwise the system will sound an alarm.<br><br>UL installations must be set for a maximum of 45 sec (option 3). |
| ✶39 | **Audible Exit Warning**<br>0 = no exit warning sound<br>1 = provides an exit warning sound when armed AWAY or MAXIMUM. | Warning sound consists of slow continuous beeps until last 5 seconds, then it changes to fast beeps. The warning sound ends when exit time expires. |
| **DIALER PROGRAMMING (✶40 – ✶50)** | | |
| ✶40 | **PABX Access Code**<br>Enter up to 4 digits if PABX is needed to access an outside line. Do not fill unused spaces.<br>0–9, # + 11 for '✶', # + 12 for '#', # + 13 for a pause (2 seconds) | To clear entries from field, press ✶40✶. If fewer than 4 digits need to be entered, exit by pressing [✶] and next desired field number. |
| ✶41 | **Primary Phone No.**<br>Enter up to 12 digits. Do not fill unused spaces.<br>0–9, # + 11 for '✶', # + 12 for '#', # + 13 for a pause (2 seconds) | If you enter fewer than 12 digits, exit by pressing [✶] and next field number (e.g., 42). To clear entries from field, press ✶41✶.<br>**NOTE:** Backup reporting (in which 8 calls are made to the secondary phone number if no kissoff is received after 8 attempts to the primary number) is automatic only if there is a secondary phone number entered in field ✶42. |

| FIELD | TITLE and DATA ENTRIES | EXPLANATION |
|---|---|---|
| ✶42 | **Secondary Phone No.**<br>Enter up to 12 digits. Do not fill unused spaces.<br>0–9, # + 11 for '✶', # + 12 for '#', # + 13 for a pause (2 seconds) | If you enter fewer than 12 digits, exit by pressing [✶] and next field number (e.g., 43). To clear entries from field, press ✶42✶. See NOTE if field ✶41 also.<br>**NOTE:** If you wish to send a report to a pager, see field ✶47 on a following page. |
| ✶43 | **Subscriber Account No.**<br>Enter digits 0–9; # + 11 for B; # + 12 for C; # + 13 for D; # + 14 for E; or # + 15 for F. | Enter ✶ as the fourth digit if a 3-digit account no. (for 3+1 dialer reporting format) is used.<br>Enter 0 as the first digit of a 4-digit account number for numbers 0000–0999.<br>This field is also used as the Long-Range Radio Subscriber Account No.<br>Exit field by pressing ✶ and next desired field number. |
| ✶45 | **Phone System Select**<br>If Central Station Receiver **is not** on WATS line: 0 = Pulse Dial; 1 = Tone Dial<br>If Central Station Receiver **is** on WATS line: 2 = Pulse Dial; 3 = Tone Dial | Selects the type of telephone service. |
| ✶46 | **Report Format**<br>0 = 3+1; 4+1 ADEMCO Lo Speed Standard (this is the default)<br>1 = 3+1; 4+1 Radionics Standard<br>2 = 4+2 ADEMCO Lo Speed Standard<br>3 = 4+2 Radionics Standard<br>6 = 4+2 ADEMCO Express<br>7 = ADEMCO Contact ID® Reporting<br>8 = 3+1; 4+1 ADEMCO Lo Speed Expanded<br>9 = 3+1; 4+1 Radionics Expanded | Selects the format to be used to report to the central station. Enter 1 digit (0–9).<br>(Enter ✶ as the 4th digit of ✶43 if 3+1 dialer reporting is to be used.)<br>See field ✶27, which may override this field's selection.<br>**NOTE:** The maximum number of alarm and alarm restore reports during one armed period is determined by field ✶92. |
| ✶47 | **Split/Dual Reporting**<br>0 = disable (Backup report only)<br>1 – 5 (refer to table at right for reporting to the Primary and Secondary telephone Numbers.<br>6 – 9 (refer to table at right for reporting to a pager and Primary telephone no.).<br>You must enter the pager number as the secondary phone number in field ✶42 for this function to operate. | **To Primary No.** / **To Secondary No.**<br>1 = Alarms, restore, cancel — Other reports<br>2 = All except open/close, test — Open/close, test<br>3 = Alarms, restore, cancel — All reports<br>4 = All except open/close, test — All reports<br>5 = All reports — All reports<br>**To Primary No.** / **To Paging No. (Secondary)**<br>6 = All reports except Open/Close — Alarms/open/close, troubles<br>7 = All reports — Alarms, troubles<br>8 = All reports — Alarms/open/close, troubles<br>9 = All reports except Open/Close — Alarms, open/close for users 5 - 25, troubles |

A 10-digit code is sent to the pager that is coded in the following format:
4-digit Subscriber No. SSSS–EEE–NNN 3-digit User or Zone No. (as entered in field ✶43)

3-Digit Event Code (EEE), as follows:

911 = Alarm (NNN = Zone No.)

001 = Open, System disarmed (NNN = User No.)

002 = Close, System armed ( NNN = User No.)

811 = Trouble ( NNN = Zone No.)

**NOTE:** The first digit of the Subscriber No. entered in field ✶43 must be 1–9 (do not use 0); the last 3 digits can be 0–9. **Failure to observe this requirement may interfere with paging services.**

***Example 1.*** Pager displays: 1234–911–004

This indicates that Subscriber No. 1234's system is reporting an Alarm (911), due to zone 4 being faulted (004).

***Example 2.*** Pager displays: 1234–001–005

This indicates that Subscriber No. 1234's system is reporting an opening (001) by User 5 (005).

*Note that no Restore Reports are sent to the pager.*

**Important**: AAV should not be used when Paging or Alarm Reports are being sent to a secondary number. If this is done, 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 then take place.

| FIELD | TITLE and DATA ENTRIES | EXPLANATION |
|---|---|---|
| ✶48 | **15-Second Dialer Delay (Burglary)**<br>0 = no dialer delay<br>1 = 15-second delay | Provides delay of "BURGLARY ALARM" report to the central station, which allows time for the subscriber to avoid a false alarm transmission.<br>UL installations: no dialer delay permitted. |
| ✶49 | **Periodic Test Report**<br>0 = no report 2 = weekly<br>1 = 24-hours 3 = 30 days | Selects the desired test report interval.<br>UL installations: 24 hours (1) must be selected. |
| ✶50 | **Sescoa/Radionics Select**<br>0 = Radionics (0-9, B-F reporting)<br>1 = SESCOA (0-9 only reporting)<br>Select 0 for all other formats. | Selects reporting format. |
| ✶51 | **Confirmation of Arming Ding**<br>0 = disables ding<br>1 = enables 1/2 second ding<br>2 = enables 1/2 second ding from RF arming | Entering 1 enables 1/2-second "ding" when closing report goes in, or at the end of exit delay.<br>Entering 2 enables 1/2-second "ding" when RF arming (this works with either a button RF unit or a 5827). |
| ✶52 | **Zone 3 Response Time To Open**<br>0 = 400 milliseconds nominal<br>1 = 10 milliseconds nominal | Selects response time of sensor in zone 3 to open. |
| ✶56 | **Zone Assignment/Alarm Report Codes**<br>This is an Interactive Menu mode that is used to program **zone numbers**, **zone types**, **alarm and report codes**, and to **identify the type of loop input device**. | This mode can also be used for entering 5800 Series transmitter serial numbers (serial numbers can also be entered using the Expert Programming Mode in ✶58).<br>Alpha descriptors can also be entered for zones in ✶56 (alternatively, alpha descriptors can be entered in menu mode ✶82). |
| ✶58 | **Expert Programming Mode**<br>Interactive Menu mode used for enrolling transmitters, programming zone attributes, and report codes. | Refer to *SECTION 5: Zone Programming* for procedure.<br>Refer to the zone assignment table for ✶56 and ✶58 in the Programming Form inserted in this manual. |

**Programming System Status and Report Codes (✶60- ✶68, ✶70- ✶75)**

**With a 3+1 or 4+1 Standard Format:** Enter a code in the *first digit* box: 1–9, 0, B, C, D, E, or F.

Enter # + 10 for 0, # + 11 for B, # + 12 for C, # + 13 for D, # + 14 for E, # + 15 for F.

A 0 (*not* # + 10) in the *first digit* box will disable a report.

A 0 (*not* # + 10) in the *second digit* box (if any) will result in automatic advance to the next field when programming.

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

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

A 0 (*not* # + 10) **in** *both* boxes will disable the report.

**With ADEMCO Contact ID® Reporting:** Enter any digit (other than 0) in the *first* box, to enable zone to report This is an "enabling" code only and is disregarded in the actual reporting to the central office. Entries in the *second* boxes will be ignored.

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

***Examples:***

| | | |
|---|---|---|
| For Code **3** (single digit), enter: | 3 | 0 |
| For Code **32** (two digits), enter: | 3 | 2 |
| For Code **B2** (hexadecimal) enter: | # + 11 | 2 |

| FIELD | TITLE and DATA ENTRIES | EXPLANATION |
|---|---|---|
| **SYSTEM STATUS REPORT CODES (✶60 – ✶68)** | | |
| ✶60 | **Trouble Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to above table for method of programming report codes.) | This is a 2-digit entry field.<br>This will be sent if a zone has a trouble condition. |
| ✶61 | **Bypass Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to above table for method of programming report codes.) | This is a 2-digit entry field.<br>This will be sent when a zone is manually bypassed.<br>Refer to above table for method of constructing 2-digit codes. |
| ✶62 | **AC Loss Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to above table for method of programming report codes.) | This is a 2-digit entry field.<br>Timing of this report is random with up to a 48 minute delay. The AC RESTORE report has a random delay of about 12 minutes. If AC restores before the report goes out, there is no "AC RESTORE" report. |
| ✶63 | **LOW BAT Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to above table for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent when a low battery condition exists in the system's standby battery. |
| ✶64 | **TEST REPORT CODE**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to above table for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent periodically to test that the communicator and phone lines are operational. |
| ✶65 | **Open/Exit Alarm Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to above table for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent periodically to test that the communicator and phone lines are operational. |

**Open Report Code:** To enable, enter a code (or 0 to disable) in the left-hand box (see box above).

*For expanded or 4+2 reporting,* 2nd digit = User No.

**Exit Alarm Report Code:** To enable, enter a code (or 0 to disable) in the right-hand box (see box above). If enabled, **any alarm from an exit or interior zone occurring within two minutes after the end of the exit delay** will send a special message indicating exit alarm to the central station, and a zone indication and "Exit Alarm" or "EA" is displayed on the keypad.

**If an exit or interior zone contains a fault as the exit delay ends**, the local bell and keypad sound continuously.

a) *If the subscriber then disarms the system before the ensuing ENTRY delay ends,* no message is transmitted to the central station, but a zone indication and "Canceled Alarm" or "CA" is displayed on the keypad.

b) *If the system is not disarmed before that entry delay ends,* a special message indicating Exit Alarm is sent to the central station and a zone indication and "Exit Alarm" or "EA" is displayed on the keypad.

*For expanded or 4+2 reporting*, a 2nd digit is sent, and is the same as the 2nd digit of the zone Alarm Report code programmed in field ✶56.

*For Contact ID® reporting*, Event code 374 and the zone number is sent.

There is no restore message for an Exit Alarm report.

| FIELD | TITLE and DATA ENTRIES | EXPLANATION |
|---|---|---|
| ✶66 | **Away/Stay Close Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to table on previous page for method of programming report codes.) | This is a 2-digit entry field.<br>This option allows for programming of AWAY and STAY reports. |
| ✶67 | **RF Xmtr LOW BAT Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to table on previous page for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent in the event that a wireless transmitter low battery condition exists. |
| ✶68 | **Cancel Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to table on previous page for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent upon disarming of the system after an alarm condition was reported. |
| **RESTORE REPORT CODES (✶70 – ✶75)** | | |
| ✶70 | **Alarm Restore Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to table on previous page for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent upon disarming of the system after an alarm condition was reported. |
| ✶71 | **Trouble Restore Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to table on previous page for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent when a trouble in a zone is restored. |
| ✶72 | **Bypass Restore Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to table on previous page for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent when a zone that has been bypassed is unbypassed. |
| ✶73 | **AC Restore Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to table on previous page for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent when AC power has been restored after an AC power outage. |

| FIELD | TITLE and DATA ENTRIES | EXPLANATION |
|---|---|---|
| ✶74 | **Low Bat Restore Report Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to table on previous page for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent when a system low battery condition is restored to normal. |
| ✶75 | **RF Xmtr. Low battery Restore Code**<br>0 = no report<br>For both digits: 1-9, A-F (Refer to table on previous page for method of programming report codes.) | This is a 2-digit entry field.<br>This is sent when a system low battery condition is restored to normal. |
| **Miscellaneous System Fields** | | |
| ✶80 | **Output Relays**<br>Interactive mode | This Interactive Menu mode is applicable only if 4204 relays are to be used ("3" in field ✶25).<br>Refer to *SECTION 6: Output Device Programming* for a detailed programming procedure. Also refer to the *Output Relays Worksheet for Fields ✶80 and ✶81* in the Programming Form. |
| ✶81 | **Zone Lists For Output Devices**<br>Interactive mode | This mode is applicable if 4204 relays are to be used ("3" in field ✶25).<br>Refer to *SECTION 6: Output Device Programming* for a detailed programming procedure. Also refer to *Zone Lists for Output Relays* in the Programming Form. |
| ✶82 | **Custom Alpha Editing**<br>Interactive mode | Refer to *SECTION 8: Alpha Descriptor Programming* for procedure. |
| ✶91 | **Option Selection**<br>0 = AAV unit **not** being used in system<br>4 = AAV unit is being used<br>8 = Exit Delay Restart<br># + 12 = AAV + Exit Delay Restart | AAV should not be used when Paging or Alarm Reports are being sent to a secondary number. If this is done, 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.<br>**UL** installations: AAV option is not permitted (0). |
| ✶92 | **Number of Reports in Armed Period**<br>0 = limits number of reports to 10 or less<br>1 = allows an unlimited number of reports | This option limits the number of messages (Alarm and Alarm Restore reports) sent to the central station in an armed period.<br>**UL** installations: no limit on number of reports (1). |
| ✶93 | **Dynamic Signaling Delay (DSD)** (1st entry)<br>0 = disabled (both signals sent)<br>1–15 = entry times a 15-second delay.<br>e.g., 1 = 15 seconds, 2 = 30 seconds, etc.<br><br>**Dynamic Signaling Priority (DSP)** (2nd entry)<br>0 = Primary phone number first;<br>1 = Long Range Radio (LRR) first. | This field (1st entry) lets you select the amount of time the panel should wait for acknowledgment from the first reporting destination 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.<br>If "0" is entered in this field, the control panel will send redundant reports to both Primary phone number and LRR.<br>**UL** installations: must be set to 0 (in 1st entry). |

The chart that follows provides a concise explanation of how the Dynamic signaling feature functions.

| If Priority (✶93, 2nd entry) is… | And message is… | Then… |
|---|---|---|
| Primary Phone No. ("0" entered) | Acknowledged before delay expires | Message is removed from queue and no message is sent to LRR. |
| | Not acknowledged before delay expires | Message is sent to both the Primary Phone Number and LRR. |
| Long-Range Radio ("1" entered) | Acknowledged before delay expires | Message is removed from queue and no message is sent to Primary Phone Number |
| | Not acknowledged before delay expires | Message is sent to both the Primary Phone Number and LRR. |

| FIELD | TITLE and DATA ENTRIES | EXPLANATION |
|---|---|---|

**Download Information (✶94, ✶95)**

**✶94** **Download Phone Number**

Enter up to 12 digits; 0–9; # +11 for "✶," # + 12 for "#," # + 13 for a pause.

Do not fill unused spaces.
End field by entering ✶.
To clear entries from field, press ✶94✶.

**✶95** **Ring Detection Count For Downloading**

0 = disable station-initiated download
1-14 =number of rings (1-9, #+10=10, #+11=11, #+12=12, #+13=13, #+14=14,
15 = answering machine defeat (#+15=15)

This field permits programming the number of rings before the control picks up the phone line (1-14 rings).

Refer to chart that follows and program this field accordingly.

| VIP Module | Answering Machine | Downloading | Field ✶95 |
|---|---|---|---|
| Yes | No | No | Set for value other than 0 (1–14). This will enable the control panel to answer the phone call. Otherwise, it will not be possible to access the VIP Module. |
| Yes | Yes | No | Set for a value higher than the number of rings for which the answering machine is set. Example: If machine is set for 4 rings, use a value of 5 or higher. This is recommended so that the VIP Module can still be accessed if the answering machine is turned off and does not answer the phone call. |
| Yes | No | Yes | Set for value other than 0 (1–14). |
| Yes | Yes | Yes | Enter 15 to bypass answering machine. |
| No | No | No | Enter 0. |
| No | No | Yes | Enter 1–14. |
| No | Yes | Yes | Enter 15. See Important Note below. |

**NOTE:** If "15" is entered in field ✶95 to bypass an answering machine, and a 4285/4286 VIP Module is included in the installation, you should note the following:

When calling in from an off-premises phone (to receive a status report or execute a command), the user should make the initial call, allow 1 to 3 rings only, and hang up. Then call in again. The VIP Module will now seize the line, and 2 long tones will be heard, followed by the usual voice prompt for the 2-digit phone access code. If this procedure is not followed, VIP Module operation will not be possible.

| FIELD | TITLE and DATA ENTRIES | EXPLANATION |
|---|---|---|
| ✶96 | **Initialize Download ID and Subscriber Account Number For Downloading**<br>Press ✶96 | No data entry required. |
| ✶97 | **SET ALL PROGRAM FIELDS TO DEFAULT VALUES** | (No data entry required; pressing ✶97 automatically loads all ADEMCO defaults). Do not use if previously programmed with other values. |

**TO EXIT PROGRAMMING MODE (✶98 or ✶99)**

| | | |
|---|---|---|
| ✶98 | **EXITS PROGRAMMING MODE** | ***Prevents*** reentry by: INSTALLER Code + 8 + 0.<br>To enter the Programming mode if ✶98 was used to exit, you must first power the system down. Then power-up again, and depress [✶] **and** [#] both at once, within 50 seconds of powering up. |
| ✶99 | **EXITS PROGRAMMING MODE** | ***Allows*** reentry by: INSTALLER Code + 8 + 0 or by method described in paragraph above (power down, power-up and depress [✶] **and** [#] both at once, within 50 seconds of powering up). |

# Zone Programming

## (✶56 and ✶58 Menu Mode)

### About Zone Programming

Programming Wireless Zones

5800 Series transmitters have built-in serial numbers that must be enrolled into the system using the ✶56 or ✶58 programming modes in this section, or input to the control via the downloader.

Some transmitters, such as the 5816 and 5817, can support more than one "zone" (referred to as loops or inputs). Refer to the **5800 Series Transmitter Input Loop Identification** paragraph on a following page. Each loop must be assigned a different zone number.

✶56 Zone Programming (Interactive Menu) is used to program zones, zone types, report codes, enroll 5800 RF Wireless Transmitter serial numbers, and identify the type of loop input device(s). This mode can also be used to enter alpha descriptors for programmed zones; however, we recommend entering descriptors in menu mode ✶82 (Alpha Descriptor Programming**)** after all zone programming is completed.

For a faster method of zone programming, you can use the ✶58 Expert Programming Mode instead of ✶56 Zone programming. The ✶58 Expert Programming Mode (Interactive Menu) is designed for those who have had previous experience in programming control panels of this type.

**NOTE:** Alpha display prompts are shown in a double-line box.

### ✶56 Zone Programming Procedure

Zone Programming involves:

1. Entering the programming mode by pressing ✶20
2. Pressing ✶22 (RF System) to enable reception of 5800 series transmitters
3. Pressing ✶56 to start zone programming
4. Making appropriate entries at the prompts
5. Confirming the serial number of wireless transmitter zones.

The following prompts are displayed:

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|
| SET TO CONFIRM?<br>0 = NO 1 = YES 0 | **Set to Confirm**<br>0 = no<br>1 = yes | This display appears upon entry into ✶56 mode. The default is **0** (No). If you enter **1** (Yes), you are prompted to confirm each transmitter after entering the serial and loop numbers (at the **XMIT TO CONFIRM** prompt later in this procedure).<br>**We recommend that you confirm the programming of every transmitter.** |
| Enter Zn Num.<br>(00 = Quit) 10<br>Zone 10 entered ↑ | **Zone Number**<br>1-25, 7, 95, 96<br>00 = quit<br>[✶] to continue. | **Zone Number (ZN):** Enter the zone number that you wish to program.<br>Zones 7, 95, or 96 may be entered (these are all emergency (panic) key zones.<br>Zone 10 has been entered as an example in display at left. |
| Zn ZT – RC In: L<br>10 00 – 10 RF: – | **Summary Screen**<br>[✶] to continue. | A **summary display** appears, showing the status of that zone's programming when using wireless keys.<br>**NOTE:** If you are programming hardwired zones 01-06, the display appears as follows.<br>ZN ZT – RC IN: L<br>02 00 – 10 HW: – |

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|
| ↓ Zone Number<br>10 Zone Type<br>Perimeter 03<br>Zone Type ↑ | **Zone Type (ZT)**<br>00-10, 20-23 = Zone type (refer to table)<br>[✶] to continue | Enter the Zone Type response (or change it, if necessary).<br>Each zone must be assigned to a zone type, which defines the way in which the system responds to faults in that zone.<br>Enter the Zone Type code (or change it, if necessary). Zone types are listed below.<br>**NOTE:** If you enter 00, **Delete Zone ?** is displayed.<br>00 = Not used<br>01 = Entry/Exit<br>02 = Not used<br>03 = Perimeter<br>04 = Interior Follower<br>05 = Trouble Day/Alarm Night<br>06 = 24-Hr Silent<br>07 = 24-Hr Audible<br>08 = 24-Hr Aux<br>09 = Fire<br>10 = Interior w/Delay<br>20 = Arm–STAY*<br>21 = Arm–AWAY*<br>22 = Disarm*<br>23 = No Alarm**<br>* 5800 button-type transmitters only<br>** Used with relays typically when no alarm response is required |
| 10 Report Code<br>1st 01 2nd 00 10 | **Report Code (RC)**<br>[✶] to continue | Enter the report code. This 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**. Refer to *SECTION 9:* ***System Communication*** for more information about report codes and report code formats.<br>**NOTE:** Report codes are defaulted to 10 for use with CID reporting. |
| 10 INPUT TYPE<br>RF TRANS 3 | **Input Device type (IN)**<br>3 = RF (supervised RF transmitter)<br>4 = UR (unsupervised RF transmitter)<br>5 = BR (Button-type RF transmitter unsupervised)<br>[✶] to continue | For the built-in hardwired zones 01-06, the Input Device type is automatically displayed as **HW** and cannot be edited.<br>For wireless zones 10 and higher, inputs can be entered as:<br>**"RF" (Supervised RF) Type** send periodic check-in signals, as well as fault, restore, and low battery signals. The transmitter must remain within the receiver's range.<br>**"UR" (Unsupervised RF Type** send 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.<br>**"BR" (Unsupervised Button RF Type** only send fault signals. They do not send low battery, restore, or check-in signals. The transmitter may be carried off-premises. |
| 10 INPUT S/N L<br>A022-4064 1<br>**Note:** The [A] and [B] keys may be used to move the cursor to the right (A) or left (B) within the serial number field, thus allowing you to correct any entry errors that may have been made. | **Serial number Entry**<br>[✶] to continue | *Used only when enrolling wireless transmitters.*<br>a. Transmit an open and close sequence. If using a button-type transmitter, press and release the button;<br>OR<br>b. Manually enter the 7-digit serial number printed on the label of the transmitter, using the alpha display keypad;<br>OR<br>c. To copy the serial number previously enrolled (used when programming a transmitter with several input loops), simply press key [C].<br>The cursor then moves to the "L." You can edit the loop number, if necessary as follows. |

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|
| 10 INPUT S/N L<br>A022-4064 ? | **Loop Number Entry**<br>[✶] to accept and continue | **NOTE:** If you use the [C] key to copy the previously enrolled serial number, the cursor moves to the Loop column (L) with the serial number displayed, and displays a question mark '**?**" for the loop number.<br>Enter the loop number and press [✶]. Refer to the graphic of wireless devices on a following page in this section for the correct number of loops and loop identification numbers.<br>The system then checks for a duplicate serial/loop number combination.<br>If a **duplicate** serial/loop number combination is found, the keypad emits a single long beep, and displays the serial number along with a "**?**" for the loop number, allowing you to reenter the correct loop number. |
| XMIT TO CONFIRM<br>PRESS ✶ TO SKIP | **Confirmation Option**<br>[✶] to continue | *This prompt appears only if you answered **Yes** to the first prompt in this section.*<br>The system enters a confirmation mode so that the operation of the actual programmed input can be confirmed. Activate the loop input or button that corresponds to this zone.<br>**We recommend that you confirm the programming of every transmitter before proceeding to the next zone.** |
| Keyd A022-4063 1<br>Rcvd A022-4064 1 | **No Match** | If the serial/loop number combination transmitted **does not match** the serial number entered, a display similar to the one at left appears. If the loop number does not match, it is also displayed.<br>If so, activate the transmitter's loop input or button one or more times. If a match is still not obtained (i.e., summary display does not appear), press the [#] key twice and enter the correct loop input or, if correct, press the [#] key again and then enter the correct serial number. |
| Zn ZT – RC In: L<br>10 03 – 10 RF: 1s | **Summary Display**<br>[✶] to accept zone summary and continue | If the **serial number transmitted matches** the serial number entered, the keypad beeps 3 times and a summary display appears, showing that zone's programming. Note that an "s" after the loop number indicates that a transmitter's serial number has been enrolled. |
| PROGRAM ALPHA?<br>0 = NO 1 = YES 0 | **Alpha Descriptors**<br>0 = no<br>1 = yes<br>[✶] to continue | If you want to program descriptors for zones now, enter **1** (Yes) and refer to ***SECTION 8: Alpha Descriptor Programming*** for available descriptors. |
| ENTER ZN NUM.<br>(00 = QUIT) 11 | **Next Zone Number**<br>00 = quit | If you entered **0** (No) above, the system returns you to the **ENTER ZN NUM.** prompt for the next zone.<br>When all zones have been programmed, enter **00** to quit**.** |

**NOTE:** Following the successful enrollment of each wireless device, remove **ONE** of the serial number labels from the device and affix it in the appropriate column on the ENROLLED TRANSMITTERS worksheet of the Programming Form. Then enter the other information (zone number, zone type, loop number, etc.) relevant to that device. This information will be useful if any troubleshooting is needed later on. The installer may want to consider leaving this worksheet at the site (in the panel cabinet).

## Testing the Zones

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.

### 5800 Series Transmitter Input Loop Identification

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

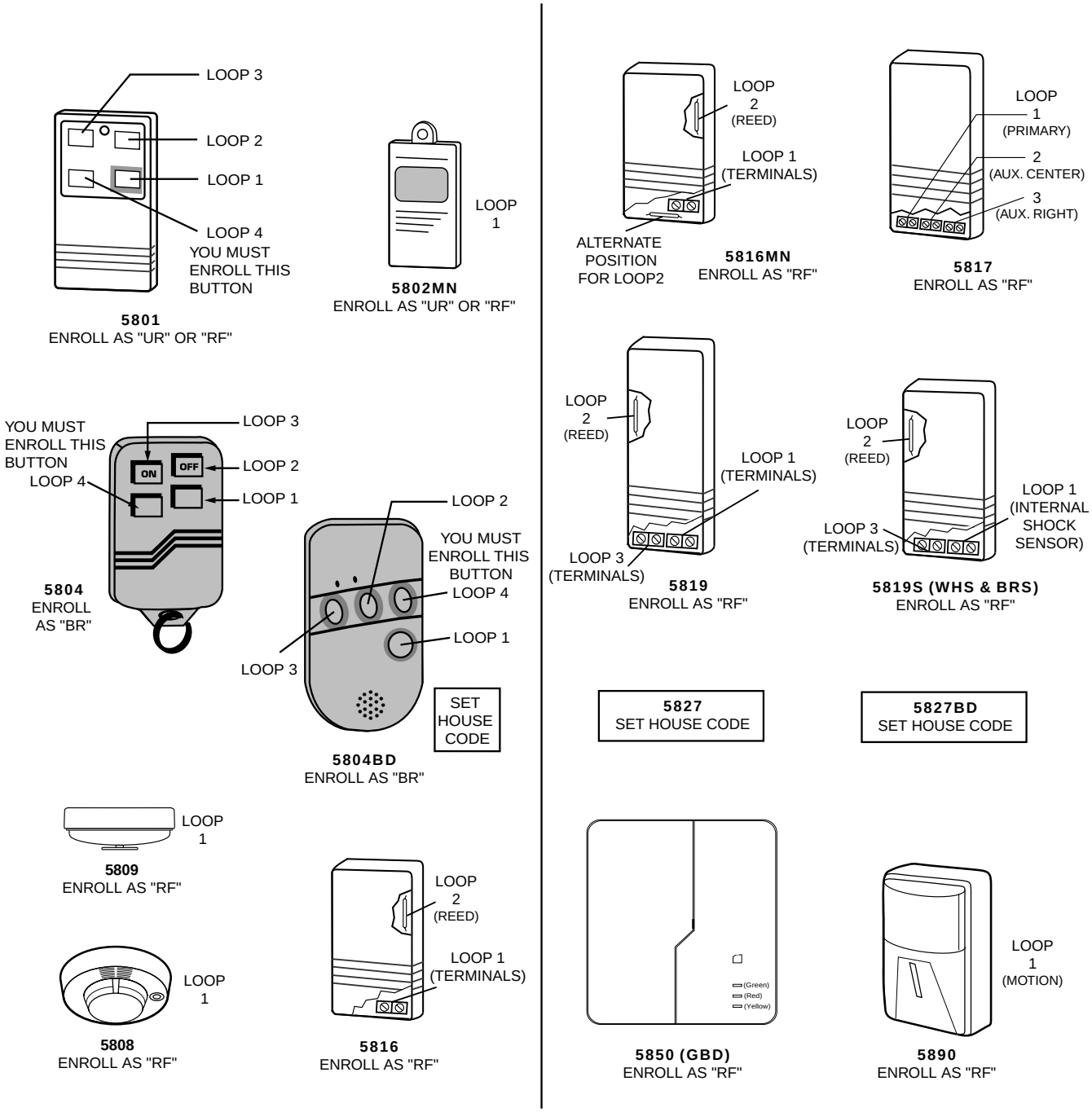



***Figure 5-1. 5800 Series Wireless Devices***

**UL**

The 5802, 5802MN, 5802MN2, 5804, 5804BD, 5814, 5816TEMP, 5819, 5819S(WHS & BRS), 5827BD, and 5850 transmitters are **not** intended for use in UL installations.

### ✶58 Expert Programming Mode Procedures

This method is designed for use by installers with previous experience in programming control panels.

Zone Programming involves:

1. Entering the programming mode by pressing ✶20
2. Pressing ✶22 (RF System) to enable reception of 5800 series transmitters
3. Pressing ✶58 to start expert mode zone programming
4. Making appropriate entries at the prompts
5. Confirming the serial number of wireless transmitter zones.

The following prompts are displayed:

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|
| SET TO CONFIRM?<br>0 = NO 1 = YES 0 | **Set to Confirm**<br>0 = no<br>1 = yes | This display appears upon entry into ✶58 mode. The default is **0** (No). If you enter **1** (Yes), you are prompted to confirm each transmitter after entering the serial and loop numbers (at the **XMIT TO CONFIRM** prompt later in this procedure).<br>**We recommend that you confirm the programming of every transmitter.** |
| Zn ZT – RC In: L<br>01 09 – 10 HW: 1 | **Summary Screen**<br>01-25 = Zone number<br>00 = Quit<br>[✶] to continue<br>OR | A summary screen appears, showing zone 01's current programming or default values. |
| Zn ZT – RC In: L<br>10 – – – : – | [D to go to prompts for wireless key programming templates] | Enter the zone number being programmed, then press [✶], which displays a summary screen for that zone. See next prompt (in this example, zone 10 is being entered). You must always program zones using two digits.<br>**If programming a wireless key,** press the [D] key, then skip to the "To Enter and Duplicate Wireless Keys" paragraph on a following page in this section. When [D] is pressed, you can choose from a series of preset templates for easy programming of wireless key zones.<br>When all zones have been programmed, press "00" at this prompt to quit this menu mode. |

A summary screen with the selected zone's current programming appears.

| | | |
|---|---|---|
| Zn ZT – RC In: L<br>10 00 – 10 RF: 1<br>† If you enter HW (hardwired), the next screen is similar to the one above, except that HW is displayed under "IN." | **Zone Programming**<br>ZT = see Zone Type chart shown in ✶56 Menu Mode "Zone Type" prompt<br>RC = 1 (send CID report)<br>0 (no report)<br>IN = input type<br>L = loop number<br>[✶] to continue | Begin programming zone information as follows:<br>• Enter Zone Type (ZT), Report Code (RC), and Input Device Type (I (IN)† sequentially, but **not** the Loop No. (L).<br>• Use the [A] (Advance) and [B] (Back) keys on the keypad to move the cursor within the screen.<br>• Use the [C] key to copy the previous zone's attributes.<br>Press [✶] to save the programming and continue to the serial number/loop number prompt. If needed, you can press the [#] key to back up without saving. |
| 10 INPUT S/N: L<br>AXXX-XXXX 1 | **Serial and Loop Number**<br>S/N = serial number<br>L =loop number<br>[✶] to continue | Manually enter the serial number (found on the transmitter label), by typing digits in the "X" locations, using the [A] (advance) or [B] (back) keys as required. You can also open and close the transmitter to transmit the serial number. For button-type transmitters, that means pressing and releasing the transmitter's button.<br>**Note**: If you want to copy the previous zone's serial number, press the [C] key.<br>The cursor advances to the "L". Enter the loop number<br>Press [✶] to accept the existing serial and loop number. |

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|
| XMIT TO CONFIRM<br>PRESS ✶ TO SKIP | **Confirm**<br>[✶] to continue | The prompt to confirm appears. This prompt will only appear if the first prompt after entering ✶58 was answered "Yes." To confirm, activate the loop input or button that corresponds to this zone.<br>The system checks for duplicate. If a duplicate exists, the keypad emits a single long beep, and displays the serial number along with a "**?**" for the loop number, allowing you to reenter the correct loop number<br>Press [#] to back up and reenter the serial and/or loop number. |
| Keyd A022-4063 1<br>Rcvd A022-4064 1 | **If Serial or Loop Numbers do not match after activating the transmitter**<br>[✶] to continue | If the serial/loop number combination transmitted **does not match** the serial and loop number entered, a display similar to the one at left appears. If the loop number does not match, it will also be displayed. If so, activate the transmitter's loop input or button one or more times.<br>If a match is still not obtained (i.e., summary display does not appear), press the [#] key twice and enter the correct loop input or, if correct, press [#] again and then enter the correct serial number. |
| Zn ZT – RC In: L<br>11 03 – 10 RF: 1s<br>Note that an "s" indicates that a transmitter's serial number has been enrolled. | **Summary Screen**<br>[✶] to continue | If the serial number transmitted matches the serial number entered, the keypad beeps 3 times and advances to the Summary display of the next zone to be programmed. |

**NOTE:** Following the successful enrollment of each wireless device, remove **ONE** of the serial number labels from the device and affix it in the appropriate column on the ENROLLED TRANSMITTERS worksheet of the Programming Form. Then enter the other information (zone number, zone type, loop number, etc.) relevant to that device. This information will be useful if any troubleshooting is needed later on. You may want to consider leaving this worksheet at the site (in the panel cabinet).

### Testing the Zones

When you have finished programming all zones in ✶58, 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.

### To Remove a Zone

To either temporarily or permanently remove a wireless zone from the 5800 system:

| | | |
|---|---|---|
| SET TO CONFIRM?<br>0 = NO 1 = YES 0 | **Set to Confirm**<br>0 = no<br>1 = yes | 1. Enter the programming mode:<br>Key **Installer Code** + 8 + 0 and press ✶**56**.<br>2. The prompt at left appears. Select 1 = yes. |
| Enter Zn Num.<br>(00 = Quit) 10 | **Zone Number**<br>00 = quit<br>01-25 = zone to be removed<br>[✶] to continue | The prompt at left appears.<br>3. Enter zone number to be removed. (Example: 10 used here.) |
| Zn ZT – RC In: L<br>10 03 – 10 RF:1s | **Summary of Zone**<br>[✶] to continue | The summary prompt of selected zone appears. |

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|
| 10 Zone Type<br>Zone Disabled 00 | **Zone Type**<br>[✶] to continue | 4. Enter **00**. This sets the zone type to **Zone Disabled**.<br>The prompt at left appears confirming 00 entry in previous step. |
| Delete Zone?<br>0 = No, 1 = Yes 0 | **Delete Zone**<br>0 = no (see explanation)<br>1 = yes (see explanation) | 5. The prompt at left asks if you want to delete the zone.<br>**1** (Yes) permanently removes the zone from the system, while<br>**0** (No) disables it but retains all data except the original zone type. You can then go back to this zone later and put back an active zone type to reenable it.<br>6. At Enter Zn Num. prompt, press 00 to exit, followed by ✶99 to leave programming mode.<br>A serial number that has been entered for a 5800 system will not be deleted if the zone is temporarily disabled by answering "No" to this last prompt. If only the transmitter is to be replaced, it can be accomplished in To Delete a Transmitter Serial Number procedure that follows. |

### To Delete a Transmitter Serial Number

The abbreviated procedure that follows can be used to delete and replace a transmitter serial number from a zone, using the ✶**56** Mode.

| | | |
|---|---|---|
| SET TO CONFIRM?<br>0 = NO 1 = YES 0 | **Set to Confirm**<br>0 = no<br>1 = yes | 1. Enter the programming mode:<br>Key **Installer Code** + **8** + **0** and press ✶**56**.<br>2. The prompt at left appears. Select 1 = yes.<br>3. Enter zone number of transmitter to be deleted.<br>Example = zone number 10. |
| 10 INPUT S/N: L<br>A022-4064 1 | | 4. Press [✶] repeatedly until the prompt at left appears.<br>This is the transmitter serial number and loop number that is presently programmed for this zone.<br>5. Enter **0** in the flashing loop number field.<br>The serial number changes to all **0**'s. The other programmed values for that zone are not deleted. This allows you to enroll a new transmitter in its place. |
| 10 INPUT S/N: L<br>A000-0000 0 | **Serial number Entry and Loop Number Entry** | 6. Press [✶] to accept the **0** loop entry.<br>If you want to replace the serial number continue to step 7. A display for the new transmitter number appears.<br>If you do not want to replace the transmitter, skip to step 11 by pressing the [✶] key repeatedly until the 00 to "Quit" prompt is displayed. |
| 10 INPUT S/N: L<br>AXXX-XXXX X | [✶] to continue | 7. Key the transmitter (or manually insert the new transmitter serial number). The new transmitter serial number replaces the X's in the display at left.<br>Use the A or B key to move the cursor to the right or left respectively in the serial number to correct any wrong entries.<br>8. Press [✶] key to position the cursor in the loop entry position. Insert the loop number connected with this new transmitter serial number. Loop 1 is the default loop. |
| 10 INPUT S/N: L<br>A024-3938 1s | **Change Verification** | The new display appears with a small "s" next to the loop number to indicate that the new transmitter serial number has been learned.<br>9. Press the [✶] key repeatedly until "Enter Zone Number" prompt is displayed.<br>To exit, enter **00**.<br>10. Press ✶**99** to exit the Programming mode. |

**NOTE:** Be sure to remove one of the serial number labels from the new transmitter and affix it over the old serial number label in the ENROLLED TRANSMITTERS worksheet in the Programming Form.

### To Enter and Duplicate Wireless Keys

If you pressed the [D] key previously (from the beginning of the ✶58 mode) to enter and duplicate 5804 and/or 5804BD wireless keys, the following screens appear:

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|
| TEMPLATE?<br>1 – 6 1 | **Template Number**<br>1-3 = 5804 templates<br>4-6 = 5804BD templates | 1. Enter Template number 1□6 (from table next page).<br>See the defaults provided for each template in the table that follows this procedure.<br>2. Press [#] if you want to return to zone attributes screen.<br>3. If necessary, just reenter template number. If the flashing template number is acceptable, press [✶]. |
| L 01 02 03 04<br>T 23 22 21 23 | **Template Display** | 4. When [✶] is pressed, the selected template will be displayed as shown in display at left.<br>Top line of display shows loop numbers, bottom line indicates the zone type assigned for each zone.<br>5. Press [✶] to accept template. |
| Enter Start Zone<br>00 = QUIT 22<br>Example of zone ↑ suggested by the system. This indicates that zones 22, 23, 24, and 25 are available. | **Start Zone Number** | 5a. The system searches for the highest zone number available, subtracts the number of consecutive zones required for the device (four zones in the case of the 5804 and 5804BD), and displays the lowest zone number of the group.<br>6. If you want to start at a different zone sequence, enter the zone desired and press [✶].<br>If the system does not accept the sequence you entered, step 5a is repeated. (a display of the lowest available sequence).<br>If the required number of consecutive zones is not available at all, the system displays □00.□<br>If the system accepts the zone number you entered (a total of four consecutive zones), the following screen is displayed. |
| INPUT S/N L<br>AXXX-XXXX – | **Serial Number**<br>[✶] to continue | 7. Enter the serial number of the wireless key or depress any button to transmit from a wireless key.<br>8. Press [✶] to accept the serial number.<br>The system checks for a duplicate number.<br>If a duplicate exists, a long error beep will sound and the serial number reverts back to all "Xs" allowing you to reenter the serial number.<br>If necessary, press the [#] key to back up without saving, and reenter the serial number.<br>Use the [A] key to move forward within the screen, and the [B] key to move backward. |
| XMIT TO CONFIRM<br>PRESS ✶ TO SKIP | **Confirm** | If you entered "Yes" at the **SET TO CONFIRM?** prompt previously (see first prompt following entry into the ✶56 or ✶58 Programming Mode), the display on the left appears. Confirm serial and loop numbers by activating the wireless key. |

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|
| Keyd A022-4063 –<br>Rcvd A022-4064 3 | **Not Confirmed** | If the serial number transmitted **does not match** the serial number entered, a display similar to the one at left appears.<br>If it doesn't match, press any button on the transmitter once again. If a match is not obtained, press the [#] key and then enter the correct serial number (steps 7 through 10 above).<br>If the serial number transmitted **matches** the serial number entered, the keypad beeps 3 times and returns you to step 7 above to enter the starting zone for the next wireless key.<br>After all wireless keys are programmed, enter 00 at the ENTER START ZONE prompt. |

**NOTE:** Following the successful enrollment of each wireless device, remove **ONE** of the serial number labels from the device and affix it in the appropriate column on the ENROLLED TRANSMITTERS worksheet of the Programming Form. Then enter the other information (zone number, zone type, loop number, etc.) relevant to that device. This information will be useful if any troubleshooting is needed later on. The installer may want to consider leaving this worksheet at the site (in the panel cabinet).

## Wireless Key Predefined Default Templates

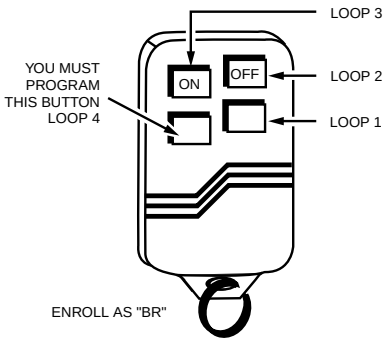



*Figure 5-2. 5804 Wireless Key Transmitter*

**Note:**
**These transmitters are not intended for use in UL installations.**

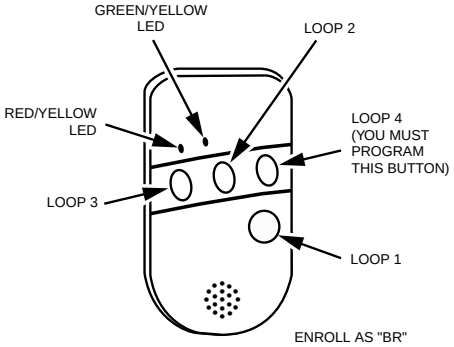



*Figure 5-3. 5804BD 2-Way Wireless Key Transmitter*

| For 5804 | | | |
|---|---|---|---|
| **TEMPLATE 1** | **Loop** | **Function** | **Zone Type** |
| | 1 | No Response | 23 |
| | 2 | Disarm | 22 |
| | 3 | Arm AWAY | 21 |
| | 4 | No Response | 23 |
| **TEMPLATE 2** | **Loop** | **Function** | **Zone Type** |
| | 1 | No Response | 23 |
| | 2 | Disarm | 22 |
| | 3 | Arm AWAY | 21 |
| | 4 | Arm STAY | 20 |
| **TEMPLATE 3** | **Loop** | **Function** | **Zone Type** |
| | 1 | 24-hour Panic | 07 |
| | 2 | Disarm | 22 |
| | 3 | Arm AWAY | 21 |
| | 4 | Arm STAY | 20 |

| For 5804BD | | | |
|---|---|---|---|
| **TEMPLATE 4** | **Loop** | **Function** | **Zone Type** |
| | 1 | No Response | 23 |
| | 2 | No Response | 23 |
| | 3 | Arm AWAY | 21 |
| | 4 | Disarm | 22 |
| **TEMPLATE 5** | **Loop** | **Function** | **Zone Type** |
| | 1 | No Response | 23 |
| | 2 | Arm STAY | 20 |
| | 3 | Arm AWAY | 21 |
| | 4 | Disarm | 22 |
| **TEMPLATE 6** | **Loop** | **Function** | **Zone Type** |
| | 1 | 24-hour Panic | 07 |
| | 2 | Arm STAY | 20 |
| | 3 | Arm AWAY | 21 |
| | 4 | Disarm | 22 |

SECTION 6

# Output Device Programming

## (✶80 Menu Mode)

### About Output Device Programming

This system supports up to four relays (devices) when a 4204 relay module is connected. The following explanations will help you understand the programming of output devices when using ✶80 (this section) and ✶81 (*SECTION 7: Zone Lists* that follows). The options used to start and stop these devices are described below, followed by the actual screen prompts and available entries. We recommend that you first fill out the *Output Relays Worksheet for Fields ✶80 and ✶81* in the separate Programming Form prior to programming.

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

The letter(s) in parentheses after each function described below, such as (A) after ACTION, are those that appear in the various summary displays of programmed data during programming.

### ACTION (A)

The "ACTION" of the relay is how the relay will respond when it is activated by the "START" programming. You may want the relay to activate momentarily, to pulse on and off continuously, or to remain activated until some other event occurs to stop it. There are four different choices of actions:

- ACTIVATE for 2 SECONDS and then reset.
- ACTIVATE and remain ACTIVATED until stopped by some other event.
- PULSE ON and OFF until stopped by some other event.
- NOT USED when the relay is not used.

### START (STT)

The "START" programming determines when and under what conditions the relay will be activated. The following START options are available:

1. **EVENT (EV)** is the condition (alarm, fault, trouble) that must occur to a zone or group of zones (zone list) in order to activate the relay. These conditions apply ***only*** when a zone list is used. The different choices for "EVENT" are listed below and in the "Programming Output Devices" paragraph that follows.
   - ALARM Relay action begins upon any alarm in an assigned zone in the zone list.
   - FAULT Relay action begins upon any opening or short in an assigned zone in the zone list.
   - TROUBLE Relay action begins upon any trouble condition in an assigned zone in the zone list.
   - NOT USED Relay action is not dependent upon one of the above events.
2. **ZONE LIST (ZL)** is a group of zones to which the "EVENT" applies in order to activate a particular relay. Note that there are a total of 3 zone lists that can be programmed in field ✶81 mode; when the selected EVENT (Alarm, Fault or Trouble) occurs in **any** zone in the selected "Start" ZONE LIST (1, 2, or 3), activation of the selected relay will START.
3. **ZONE TYPE/SYSTEM OPERATION (ZT).** If a System Operation, such as "DISARMING" or "ANY FIRE ALARM," is to activate the relay, the appropriate choice would also be entered under the "ZONE TYPE" option. "ZONE TYPE" is used independently of the "EVENT/ZONE LIST" combination.

   If a specific "ZONE TYPE" is chosen, any zone of that response type going into alarm, trouble, or fault will cause the relay to activate as selected in "ACTION." If the same "ZONE TYPE" is also chosen for the STOP programming, any zone of that type that *restores* will de-activate the relay.

   If a "SYSTEM OPERATION" is chosen (e.g., End of Exit Time), that operation will cause the relay to activate as selected in "ACTION." The different choices for "ZONE TYPE" and "SYSTEM OPERATION" are listed in the "Programming Output Devices" paragraph later in this section, and in the Programming Form.

### STOP (STP)

The "STOP" programming determines when and under what conditions the relay will be de-activated. The following options are available:

1. **RESTORE ZONE LIST (ZL)**. If a "ZONE LIST" is used as the "Stop" event, the relay will de-activate when **all** the zones in that list restore from a previous fault, trouble, or alarm condition. This will occur regardless of what is programmed to "START" the relay; therefore, a "RESTORE ZONE LIST" would normally only be used when a "ZONE LIST" is used to start the relay.

2. **ZONE TYPE/SYSTEM OPERATION (ZT).** Instead of using a "RESTORE ZONE LIST," a specific zone (response) type or system operation action can be selected to de-activate the relay.

If a specific "ZONE TYPE" is chosen, any zone of that response type that restores from a previous alarm, trouble, or fault condition will cause the relay to de-activate.

If a "SYSTEM OPERATION" is chosen, that operation will cause the relay to de-activate. The different choices for "ZONE TYPE" and "SYSTEM OPERATION" are listed in "Programming Output Devices" later in this section, and in the Programming Form.

If relay outputs are used, two keypad entries available to the user are included among the system operation choices (34 and 35) that may be programmed. They can manually activate or de-activate the relay(s) for starting or stopping some action, such as turning lights on or off, etc.

These entries are: **Security Code + [#] + [7]**

and **Security Code + [#] + [8]**

**NOTE***:* Whichever entry is used to start/stop the action cannot also be used to stop/start it. The opposite action must either be performed by the other keypad entry or by some other event or operation defined in the programming section.

If a relay is energized before a 4-wire smoke detector is reset, the relay will be stopped by the interruption of Aux. Power that resets the smoke detector. If this is not desired, the power to the relay unit should be supplied from another 12VDC power source (e.g., the same source that is powering external equipment through the relay contacts).

### Programming Output Devices

1. With at least one 2-line alpha keypad (6139) connected to the keypad terminals on the control, power-up the system temporarily. If you previously connected the AC transformer to the control panel, you need only plug in the transformer (to 120VAC outlet) to power-up the system.

2. Enter the programming mode by keying the following on the alpha keypad:
   **INSTALLER Code (4 1 1 1) + [8] + [0].**

Field ✶25 OUTPUT RELAY MODULE must have been programmed for a 4204 module (enter "3").

3. **Press ✶80.** Note that this is an Interactive Menu Programming mode. It is used to program all output relays used in the system (4204 Relay modules). Refer to the Programming Worksheet in the separate PROGRAMMING FORM for ✶80 Interactive Mode.

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|

**Output Device Displays**

| | | |
|---|---|---|
| Enter Relay No.<br>(00 = Quit) 01 | **Enter Relay No.**<br><br>[✶] to continue | Upon pressing ✶80, this screen will appear. Enter the Relay Number 01, 02, 03, or 04 for a 4204 (or 00 to end these entries).<br>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. |
| 02 A EV ZL ZT –<br>STT 0 0 0 00 – | **START Summary Screen**<br>[✶] key to continue | This screen displays a summary of the current Relay START programming<br>(for this example, relay 02 has been selected). |
| 02 A EV ZL ZT –<br>STP – – 0 00 – | **STOP Summary Screen**<br>[✶] to continue | This screen displays a summary of the current Relay STOP programming. |
| 02 Relay Action<br>No Response 0 | **Response To Fault**<br>[✶] to continue | Enter the desired relay action as follows:<br>0 = No response 2 = Close and Stay Closed<br>1 = Close for 2 seconds 3 = Continuous Pulse on & off (1 sec ON, 1 sec OFF) |
| 02 Start Event<br>Not Used 0 | **START Event**<br><br>[✶] to continue | Enter the event to START the relay:<br>0 = Not used; 2 = Fault; 1 = Alarm; 3 = Trouble<br>A zone list must be used in conjunction with an event. If a zone type/system operation is to be used instead of an event, enter 0. |
| 02 Start: Zn List<br>No List 0 | **START by Zone List**<br>[✶] to continue | If a zone list will be used to START the relay action, enter the zone list number (to be programmed in field •81): 1, 2, or 3. If not used, enter 0. |
| 02 Start: Zn Typ<br>No Used 00 | **START by Zone Type**<br><br>[✶] to continue | If a zone type or system operation will be used to START the relay action, enter the appropriate two-digit code (see table that follows). If not, enter 00. |

**CHOICES FOR ZONE TYPES**

| | | |
|---|---|---|
| 00 = Not Used | 05 = Trouble Day/Alarm Night | 08 = 24-Hr Aux |
| 01 = Entry/Exit | 06 = 24-Hr Silent | 09 = Fire |
| 03 = Perimeter | 07 = 24-Hr Audible | 10 = Interior w/Delay |
| 04 = Interior Follower | | |

**CHOICES FOR SYSTEM OPERATION**

| | | |
|---|---|---|
| 20 = Arming–STAY | 33 = Any Burglary Alarm | 39 = Any Fire Alarm |
| 21 = Arming–AWAY | 34 = Code + # + 7 Key Entry | 40 = Bypassing |
| 22 = Disarming (Code + OFF) | 35 = Code + # + 8 Key Entry | 41 = AC Power Failure |
| 31 = End of Exit Time | 36 = At Bell Timeout** | 42 = System Low Bat |
| 32 = Start of Entry Time | 38 = Chime | 58 = Duress |

**Or at Disarming, whichever occurs earlier.

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|
| 02 Stop: Zn List<br>No List 0 | **STOP by Zone List**<br>[✶] to continue | If a zone list will be used to STOP, or restore, the relay action, enter the zone list (ZL) number 1, 2, or 3 (to be programmed in ✶81 mode). If not used, enter 0. |
| 02 Stop: Zn Typ<br>Not Used 00 | **STOP by Zone Type**<br>[✶] to continue | If a zone type or system operation will be used to STOP the relay action, enter the appropriate two digit code (see the "ZT" choices listed above). If not, enter 00. |
| 02 A EV ZL ZT –<br>STT 0 0 0 00 – | **START Summary Screen**<br>[✶] to continue | This screen displays a summary of the current relay START programming. |
| 02 A EV ZL ZT –<br>STP 0 0 0 00 – | **STOP Summary Screen**<br>[✶] to continue | This screen displays a summary of the current relay STOP programming. |
| Enter Relay No.<br>(00 = Quit) 01 | | The display then returns to the first screen so that the next relay number to be programmed can be entered, unless you enter [0][0] to end relay programming. |

Previously entered data can be reviewed by pressing [#] [8] [0]. After the relay number is chosen, press [✶] to go to the next screens. This is a review mode only, and data cannot be changed.

### Example of Relay Programming

**A lamp is to be turned on when any one of three specific zones are faulted or when any 24-hour auxiliary zone is faulted. We want to turn off the lamp manually without affecting the arming status of the system.**

In field ✶80, we choose Relay 01 and program the Action (A) to be "2" (Close and stay closed). The Event we are looking for to ***START*** the relay action is a fault, so we program "2" in (EV). We will use Zone List 1 for the 3 specific zones, so we program "1" in (ZL), (these 3 zones are programmed in field ✶81's Zone List 1).

The second condition for turning on the indicator is triggering a 24-hour auxiliary zone (Zone Type 08), so we program (ZT) as "08."

To ***STOP*** relay action and turn off the indicator, we do not want to use a restore of **any** zone, so we will program a "0" for the "*Restore of*" Zone List (ZL). To choose a manual entry of User Code + [#] + [7] to turn it off, we will program (ZT) as "34."

If no other relay is to be programmed, we go to field ✶81 and program the 3 specific zones in Zone List 1.

**Press ✶81.** (Zone Lists for Output /Relays). This interactive mode is applicable only if you have programmed ✶80 mode.

Refer to, **OUTPUT RELAYS WORKSHEET FOR FIELDS ✶80 and ✶81** in the Programming Form, to record data.

# Zone Lists

## (✶81 Menu Mode)

### About Zone Lists

Zone lists let you group individual zones for use with certain system actions. This interactive menu mode is used to program zone lists for output devices previously programmed in ✶80. Refer to the Programming Form worksheet (✶81) that programs the Zone Lists for Output Relays. The following table indicates the available zone lists and their purpose.

| Zone List No. | Used for... |
|---|---|
| 01 | Starting **or** stopping a relay action (enter 00 to end entries); general purpose |
| 02 | Starting **or** stopping a relay action (enter 00 to end entries); general purpose |
| 03 | Starting **or** stopping a relay action (enter 00 to end entries); general purpose |

### Zone List Programming

Zone List programming involves:

1. Selecting an appropriate zone list number
2. Adding the desired zone numbers to that list.

Start Zone List Programming mode by pressing ✶81 while in the Programming mode. The following prompts are displayed.

### ✶81 Menu Mode

| PROMPT | VALID ENTRIES | EXPLANATION |
|---|---|---|
| ZONE LIST NO.<br>(00 = Quit 01 | **Zone List Number**<br>01 - 03 = zone list number<br>[✶] to continue | Enter the Zone List number **01**, **02**, or **03** you want to program (or **00** to end these entries).<br>In the following displays, zone list 01 has been selected for programming. |
| 01 Enter Zn Num.<br>(00 = Quit) 00 | **Zone Number**<br>01✶ - 25✶ = zone list number<br>00 to advance | Enter each zone number to add to the zone list by first entering the zone number, then ✶ (for example, 01✶, 02✶, 03✶). After all zones desired are entered, press **00** to advance.<br>**IMPORTANT:** Do not include fire zones in zone lists that are used to STOP relay actions. |
| 01 Del Zn List?<br>0 = No 1 = Yes 0 | **Delete Zone List**<br>0 = to advance | To delete the zone list, enter **1** (Yes). All zones in the zone list are deleted automatically, and programming returns to the first screen. |
| 01 Delete Zone?<br>0 = No 1 = Yes 0 | **Delete Zone**<br>1 = to advance | To save the entire zone list, enter **0** (No). Programming returns to the first screen.<br>To delete a zone or zones in a zone list, enter **1** (Yes) to advance. |
| 01 Zn to Delete?<br>(00 = Quit) 00 | **Zone to Delete**<br>00 = to return to first screen | Enter each zone to be deleted from the list, followed by ✶. After all zones to be deleted are entered, enter **00** to return to the first screen so that another list can be programmed, if desired. |

Any list may include any or all of the system's zone numbers **except** zone 08.
A zone list can be assigned to more than one output relay.

**Notes:**

- Any list may include any or all of the system's zone numbers.
- A zone list can be assigned to more than one output relay.
- *If you only want to review what has been programmed previously*, press #81. The review can be advanced by using the * key. When finished, press 00* to quit. No programmed values can be changed in this mode.

**When programming in *80 and *81 Interactive modes is completed, exit the programming mode by pressing *99.**

# Alpha Descriptor Programming

## (✶82 Menu Mode)

### About Alpha Descriptor Programming

This Interactive mode section provides instructions for programming alpha descriptors and for adding custom words. This is recommended for systems using alpha keypads, and necessary if a 4285/4286 VIP Module is used. Alpha descriptors cannot be displayed on fixed-word keypads.

If you are using a 4285 or 4286 VIP Module (phone module), select from those words in the Alpha Vocabulary List (on a following page) shown in **boldface type**. *The VIP Module will not provide annunciation of the other words.*

If a VIP Module is **added** to an existing VISTA-10SE system, you must reprogram **all** the *alpha descriptors presently in the system,* selecting from those words shown in **boldface type** in the Alpha Vocabulary List. The VIP Module will not provide annunciation of any other words.

### Zone Descriptors

The alpha keypad used with the VISTA–10SE can have a user-friendly descriptor/ location of all protection zones, keypad panics, and RF receiver supervision faults programmed into the system. Each descriptor can be composed of a combination of words (up to a maximum of 3) selected from a vocabulary of words stored in memory (see the list on a following page). In addition, up to 5 installer-defined (custom) words can be added to those already in memory. Thus, when an alarm or trouble occurs in a zone, an appropriate descriptor for that zone's location is displayed at the keypad.

**NOTE:** Alpha descriptor entry can be done locally at the alpha keypad or remotely using downloading software. The alpha keypad procedure is described below.

### Programming Zone Descriptors

You can enter the descriptor when the zone is being defined in field ✶56, but we recommend you do it using this ✶82 Menu mode.

To program zone descriptors, enter the 3-digit reference number for the desired word(s). The 3-digit number for each word is provided in the Alpha Vocabulary List on a following page.

| PROMPT | PROCEDURE |
|---|---|
| Installer Code<br>20 | 1. With the system powered up, enter the Programming mode by keying:<br>**Installer Code (4 1 1 1) + 8 + 0.**<br>The display at left appears. Press [✶] to continue |
| Field? | 2. Press ✶82. |
| Program Alpha?<br>0 = No, 1 = Yes 0 | 3. The "Program Alpha?" prompt appears.<br>If you press 0 (No), it means that you do **not** want to program descriptors at this time. Press 1 to continue. |
| Custom Words ?<br>0 = No, 1= Yes 0 | 4. **By pressing 1 (Yes) at this prompt:**<br>Proceed to the six steps for "Adding Custom Words" later in this section. |
| Custom Words ?<br>0 = No, 1= Yes 0 | 5. **By pressing 0 (No) at this prompt:**<br>The system then automatically displays the default (or previously entered) descriptor for zone 01. |

| PROMPT | PROCEDURE |
|---|---|

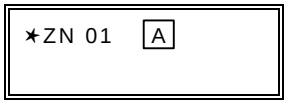
Default Descriptor ↓


If a descriptor was **not** entered previously for zone 01, the default descriptor for zone 01 will be displayed.

Note that no entries can be made. Entries can be made only when the display contains a flashing cursor, which signifies the "entry mode."

---

Flashing Cursor (system is ready for entry of word).
↓

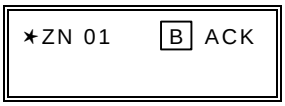



6. To delete or change the default descriptor for zone 1, **press** [✶] **plus the same zone number (01).** This will clear that descriptor and gain access to the entry mode with flashing cursor, allowing changes to be made.

   **NOTE:** If you do not wish to change the existing descriptor for zone 01, enter [✶] plus the next zone number for which you wish to enter (or check) a descriptor. A summary display for that zone will appear. You must then press [✶] plus the same zone number again to gain access to the entry mode (flashing cursor) for that zone.

---

Flashing Cursor ↓

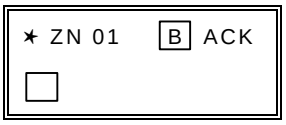



7. **Press** [#] **plus a 3-digit number** for the first word from the ALPHA VOCABULARY LIST on a following page. *Example:* The descriptor that we wish to enter for zone 01 is BACK DOOR. From the LIST, BACK = 013.

   Therefore, we enter **# 0 1 3**.

   **NOTE:** If you accidentally enter the wrong word, simply press [#] plus the correct 3-digit number for the word you want.

---

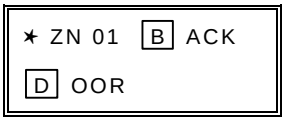



↑
Flashing Cursor if [6] is pressed (system is ready for next word).

8. **Press [6] to accept the first word and continue.**

   **NOTE:** If **this** is the only word you are using for the descriptor, press [**8**] instead of [**6**] to save that word in memory, and then go to step 12.

---

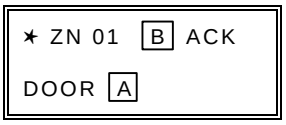



↑ Flashing Cursor

9. **Enter the 3-digit number for the next word.** In our example, the word is DOOR, whose number is "057."

10. Enter **# 0 5 7**. The display at left appears.

---



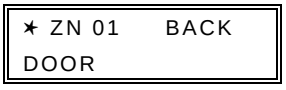

↑
Flashing Cursor if [6] is pressed (system is ready for next word).

11. Press [6] to **accept** the first two words.

    **NOTE:** If these are the only words you are using for the descriptor, press [8] instead of [6] to save them in memory.

12. The two words in our example have now been entered. Note however, that up to three words may be entered (provided the number of characters will fit on the screen). **Press [8] to save all words in memory.**

---




The "A" with the flashing cursor disappears, indicating that the word(s) are stored in memory for that zone, as shown in the display at the left. To exit this mode, skip to step 13.

13. To enter a descriptor for the next zone, press [✶] plus the desired zone number (e.g., ✶02. The display following step 5 appears. Repeat steps 6 through 11 to enter the descriptor for the next zone.

---

| PROMPT | PROCEDURE |
|---|---|
| Program Alpha?<br>0 = No, 1 = Yes 0 | 14. Enter ✶**00**. The "Program Alpha?" prompt at left appears.<br>Press 0 (No). The Alpha Pgm prompt appears.<br>Press [✶] to continue |
| Alpha Pgm<br>82 | 15. Press [✶] to continue exiting and to program another field.<br>16. Enter ✶**99** to exit the Programming mode. |

### Adding Custom Words

You can add up to five installer-defined words to the built-in vocabulary. Each of the five "words" can actually consist of a "word string" of one or more words, but no more than a total of *ten* characters *(including spaces)* can be used for each word or word string.

Custom Words will not be annunciated by a 4285 or 4286 VIP Module.

Custom words must begin with an *alphabetic* character. If a number or symbol is used as the first character, the word will **not** be saved.

| PROMPT | PROCEDURE |
|---|---|
| | Perform the first three steps of **Programming Zone Descriptors** on a previous page. |
| Custom Words ?<br>0 = No 1 = Yes | 1. Enter 1 (Yes) when the prompt at left is displayed.<br>Custom words are found as numbers 250-254 on the Alpha Vocabulary List.<br>2. At the Custom? Prompt, enter the number (1–5) of the custom word or word string to be created (for example, if you are creating the *first* custom word or word-string, enter 1; for the *second custom word*, enter 2, etc.). A flashing cursor will now appear at the beginning of the second line on the display. |
| Custom 1<br>□<br>↑ Flashing Cursor | 3. **To enter the custom word' characters,** *refer to the CHARACTER (ASCI) CHART of letters, numbers, and symbols on a following page*:<br>Press the [#] key, followed by the two-digit entry for the first letter you would like to display (for example, if you want to enter OLD SHED as the custom words, press #79 for "O," press # 76 for "L," etc.). |
| | 4. When you have displayed the desired character, press [6] to select it. The cursor will then move one position to the right, ready for the next character.<br>Press the [6] key again to make a space between characters. |
| Custom 1<br>OLD SHED □ | 5. Repeat steps 3 and 4 to create the desired word(s). Note that the [4] key can be used to move the cursor to the left.<br>**Remember, no word or word-string can exceed 10 characters including spaces.** |
| Custom ?<br>□ | 6. Press the [8] key to save the custom word(s) and select another Custom Word. The custom word(s) you entered will automatically be added to the built-in vocabulary.<br>For the above example, the key strokes would be: #79, 6, #76, 6, #68, 6, 6, #83, 6, #72, 6, #69, 6, #68, 6, 8.<br>Repeat steps 2–6 for the next custom words to be entered. To change a custom word, just overwrite it.<br>7. If no more custom words are to be entered now, press [0] to return to the Program Alpha? prompt. Then press 0 (No). The Alpha Pgm-82 prompt appears. To advance to the next field, press ✶ and the desired field. |

## ALPHA VOCABULARY LIST

(For Entering Zone Descriptors)

**NOTE:** Some rarely used words appearing in previously published lists have been deleted from the list below. Use only this list for selecting zone descriptors.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 000 | *(Word Space)* | | 055 | DISPLAY | | | **K** | | | **R** |
| | | **A** | • | **057** | **DOOR** | • | **105** | **KITCHEN** | | 155 | RADIO |
| • | **001** | **AIR** | • | **059** | **DOWN** | | | **L** | • | **156** | **REAR** |
| • | **002** | **ALARM** | • | **060** | **DOWNSTAIRS** | • | **106** | **LAUNDRY** | | 157 | RECREATION |
| | 004 | ALLEY | | 061 | DRAWER | • | **107** | **LEFT** | | 159 | REFRIGERATION |
| | 005 | AMBUSH | • | **062** | **DRIVEWAY** | | 108 | LEVEL | | 160 | RF |
| • | **006** | **AREA** | • | **064** | **DUCT** | • | **109** | **LIBRARY** | • | **161** | **RIGHT** |
| • | **007** | **APARTMENT** | | | **E** | • | **110** | **LIGHT** | • | **162** | **ROOM** |
| • | **009** | **ATTIC** | • | **065** | **EAST** | | 111 | LINE | | 163 | ROOF |
| | 010 | AUDIO | | 066 | ELECTRIC | • | **113** | **LIVING** | | | **S** |
| | | **B** | | 067 | EMERGENCY | • | **114** | **LOADING** | | 164 | SAFE |
| • | **012** | **BABY** | | 068 | ENTRY | | 115 | LOCK | | 165 | SCREEN |
| • | **013** | **BACK** | • | **069** | **EQUIPMENT** | | 116 | LOOP | | 166 | SENSOR |
| • | **014** | **BAR** | • | **071** | **EXIT** | | 117 | LOW | • | **167** | **SERVICE** |
| • | **016** | **BASEMENT** | | 072 | EXTERIOR | • | **118** | **LOWER** | • | **168** | **SHED** |
| • | **017** | **BATHROOM** | | | **F** | | | **M** | | 169 | SHOCK |
| • | **018** | **BED** | • | **073** | **FACTORY** | • | **119** | **MACHINE** | • | **170** | **SHOP** |
| • | **019** | **BEDROOM** | | 075 | FAMILY | | 121 | MAIDS | | 171 | SHORT |
| | 020 | BELL | • | **076** | **FATHERS** | | 122 | MAIN | • | **173** | **SIDE** |
| • | **021** | **BLOWER** | • | **077** | **FENCE** | • | **123** | **MASTER** | | 174 | SKYLIGHT |
| • | **022** | **BOILER** | • | **079** | **FIRE** | • | **125** | **MEDICAL** | | 175 | SLIDING |
| | 023 | BOTTOM | • | **080** | **FLOOR** | | 126 | MEDICINE | • | **176** | **SMOKE** |
| | 025 | BREAK | | 081 | FLOW | | 128 | MONEY | • | **178** | **SONS** |
| • | **026** | **BUILDING** | | 082 | FOIL | | 129 | MONITOR | • | **179** | **SOUTH** |
| | | **C** | • | **083** | **FOYER** | • | **130** | **MOTHERS** | | 180 | SPRINKLER |
| | 028 | CABINET | | 084 | FREEZER | • | **131** | **MOTION** | • | **182** | **STATION** |
| • | **029** | **CALL** | • | **085** | **FRONT** | | 132 | MOTOR | | 184 | STORE |
| | 030 | CAMERA | | | **G** | | | **N** | • | **185** | **STORAGE** |
| | 031 | CAR | • | **089** | **GARAGE** | • | **134** | **NORTH** | | 186 | STORY |
| | 033 | CASH | • | **090** | **GAS** | | 135 | NURSERY | | 190 | SUPERVISED |
| | 034 | CCTV | | 091 | GATE | | | **O** | | 191 | SUPERVISION |
| | 035 | CEILING | • | **092** | **GLASS** | • | **136** | **OFFICE** | | 192 | SWIMMING |
| | 036 | CELLAR | | 093 | GUEST | • | **138** | **OPEN** | | 193 | SWITCH |
| • | **037** | **CENTRAL** | | 094 | GUN | | 139 | OPENING | | | **T** |
| | 038 | CIRCUIT | | | **H** | • | **140** | **OUTSIDE** | | 194 | TAMPER |
| • | **040** | **CLOSED** | • | **095** | **HALL** | | 142 | OVERHEAD | | 196 | TELCO |
| • | **046** | **COMPUTER** | • | **096** | **HEAT** | | | **P** | | 197 | TELEPHONE |
| | 047 | CONTACT | | 098 | HOLDUP | | 143 | PAINTING | • | **199** | **TEMPERATURE** |
| | | **D** | | 99 | HOUSE | • | **144** | **PANIC** | | 200 | THERMOSTAT |
| • | **048** | **DAUGHTERS** | | | **I** | | 145 | PASSIVE | • | **201** | **TOOL** |
| | 049 | DELAYED | | 100 | INFRARED | • | **146** | **PATIO** | | 202 | TRANSMITTER |
| • | **050** | **DEN** | • | **101** | **INSIDE** | | 147 | PERIMETER | | | **U** |
| | 051 | DESK | | 102 | INTERIOR | • | **148** | **PHONE** | • | **205** | **UP** |
| • | **052** | **DETECTOR** | | 103 | INTRUSION | | 150 | POINT | • | **206** | **UPPER** |
| • | **053** | **DINING** | | | **J** | | 151 | POLICE | | | |
| | 054 | DISCRIMINATOR | | 104 | JEWELRY | | 152 | POOL | | | |
| | | | | | | • | **153** | **POWER** | | | |

| | | | | | |
|---|---|---|---|---|---|
| • | **207** | **UPSTAIRS** | | | |
| • | **208** | **UTILITY** | | | |
| | | **V** | | | |
| | 209 | VALVE | | | |
| | 210 | VAULT | | | |
| | 212 | VOLTAGE | | | |
| | | **W** | | | |
| | 213 | WALL | | | |
| | 214 | WAREHOUSE | | | |
| • | **216** | **WEST** | | | |
| • | **217** | **WINDOW** | | | |
| • | **219** | **WING** | | | |
| | 220 | WIRELESS | | | |
| | | **X** | | | |
| | 222 | XMITTER | | | |
| | | **Y** | | | |
| | 223 | YARD | | | |
| | | **Z** | | | |
| | 224 | ZONE (No.) | | | |
| • | **225** | **ZONE** | | | |
| • | **226** | **0** | | | |
| • | **227** | **1** | | | |
| • | **228** | **1ST** | | | |
| • | **229** | **2** | | | |
| • | **230** | **2ND** | | | |
| • | **231** | **3** | | | |
| • | **232** | **3RD** | | | |
| • | **233** | **4** | | | |
| • | **234** | **4TH** | | | |
| • | **235** | **5** | | | |
| • | **236** | **5TH** | | | |
| • | **237** | **6** | | | |
| • | **238** | **6TH** | | | |
| • | **239** | **7** | | | |
| • | **240** | **7TH** | | | |
| • | **241** | **8** | | | |
| • | **242** | **8TH** | | | |
| • | **243** | **9** | | | |
| • | **244** | **9TH** | | | |

| | |
|---|---|
| 250 | Custom Word #1 |
| 251 | Custom Word #2 |
| 252 | Custom Word #3 |
| 253 | Custom Word #4 |
| 254 | Custom Word #5 |

**NOTE:** Bulleted (•) words in **boldface type** are those that are also available for use by the 4285/4286 VIP (Phone) Modules. If you are using a VIP Module, and words other than these are selected for alpha descriptors, the module will not provide annunciation of those words.

## CHARACTER (ASCII) CHART

(For Adding Custom Words)

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

# System Communication

## Panel Communication with Central Station

This section provides an explanation of formats this system accommodates for reporting alarms and other system conditions to the central station. The process of a successful transmission consists of both the method of communication between the control panel and the central station receiver; and the actual way the information is sent and displayed at the central station.

## Report Code Formats

When the panel calls the central station receiver, it waits to hear a **"handshake"** frequency from the receiver to confirm that the receiver is on-line and ready to receive its message. Once the panel hears the handshake it is programmed to listen for, it sends its message. The panel then waits for a **"kissoff"** frequency from the receiver acknowledging that the message was received and understood.

If the handshake frequency is not given or is not understood by the panel, the panel will not send its message. Once the handshake frequency is received and understood by the panel, the panel will send its message. If there is an error in the transmission (the receiver does not receive a "valid" message), the kissoff frequency will not be given by the central station receiver.

The panel will make a total of eight attempts to the primary telephone number and eight attempts to the secondary telephone number (if programmed) to get a valid message through. If the panel is not successful after its numerous attempts, the keypad will display "Communication Failure" (on an alpha keypad) or "FC" (on a fixed-word keypad).

The following chart defines the three sets of (handshake/kissoff) frequencies that the panel supports and the different formats that can be sent for each.

| FORMAT TIME | HANDSHAKE | TRANSMITS DATA | KISSOFF | TRANSMIT TIME |
|---|---|---|---|---|
| Low Speed<br>3+1<br>4+1<br>4+2 | 1400Hz | 1900Hz (10PPS) | 1400Hz | Under 15 secs.<br>(Standard report) |
| Sescoa/Rad<br>3+1<br>4+1<br>4+2 | 2300Hz | 1800Hz (20PPS) | 2300Hz | Under 10 secs.<br>(Standard report) |
| 4+2 Express | 1400–2300Hz | DTMF (10 cps) | 1400Hz | Under 3 secs. |
| Contact ID® | 1400–2300Hz | DTMF (10 cps) | 1400Hz | Under 3 secs. |

***The following describes each format in greater detail:***

| | |
|---|---|
| **3+1 and 4+1 Standard Formats** | Comprise a 3- (or 4-) digit subscriber number and a single-digit report code (e.g., Alarm, Trouble, Restore, Open, Close, etc.). |
| **3+1 and 4+1 Expanded Formats** | Comprise a 3- (or 4-) digit subscriber number, and a two-digit report code. The first digit is displayed on the first line. On the second line, the first digit is repeated 3 (or 4) times and is followed by the second digit. This is the "expanded" digit. |
| **4+2 Format** | Comprises a 4-digit subscriber number and 2-digit report code. |
| **ADEMCO Contact ID® Reporting Format** | Comprises a 4-digit subscriber number, 1-digit event qualifier ("new" or "restore"), 3-digit event code, and 3-digit zone number, user number, or system status number (see the following page). |

The following table lists codes for reports sent in different formats:

| Type of Report | Code for 3+1/4+1 Standard | Code for 3+1/4+1 Expanded | Code for 4+2 |
|---|---|---|---|
| Alarm | SSS(S) A | SSS(S) A<br>AAA(A) Z | SSSS AZ |
| Trouble | SSS(S) T | SSS(S) B<br>TTT(T) t | SSSS Tt |
| Bypass | SSS(S) B | SSS(S) B<br>BBB(B) b | SSSS Bb |
| AC Loss | SSS(S) E | SSS(S) E<br>EEE(E) $A_C$ | SSSS $EA_C$ |
| Low Bat | SSS(S) L | SSS(S) L<br>LLL(L) $L_B$ | SSSS $LL_B$ |
| Open | SSS(S) O | SSS(S) O<br>OOO(O) U | SSSS OU |
| Close | SSS(S) C | SSS(S) C<br>CCC(C) U | SSSS CU |
| Test | SSS(S) G | SSS(S) G<br>GGG(G)g | SSSS Gg |
| Restore Alarm | SSS(S) R | SSS(S) R<br>RRR(R) Z | SSSS RZ |
| AC Restore | SSS(S) $R_A$ | SSS(S) $R_A$<br>$R_AR_AR_A(R_A)A_c$ | SSSS$R_A$ $A_c$ |
| LoBat Res | SSS(S) $R_L$ | SSS(S) $R_L$<br>$R_LR_LR_L(R_L)L_B$ | SSSS$R_L$ $L_B$ |
| Trouble Res. | SSS(S) $R_T$ | SSS(S) $R_T$<br>$R_TR_TR_T$ $(R_T)t$ | SSSS $R_T$t |
| Bypass Res. | SSS(S) $R_B$ | SSS(S) $R_B$<br>$R_BR_BR_B$ $(R_B)b$ | SSSS $R_B$b |

**Where:**

SSS or SSSS = Subscriber ID
A = Alarm Code–1st digit
Z = Typically Zone Number* – 2nd digit
Tt = Trouble Code (1st & 2nd digits)
Bb = Bypass Code (1st & 2nd digits)
$EA_C$ = AC Loss Code (1st & 2nd digits)
$LL_B$ = Low Battery Code (1st & 2nd digits)
O = Open Code – 1st Digit
C = Close Code–1st Digit
U = User Number (in hex)
Gg = Test Code (1st & 2nd digits)
R = Restore Code (Alarm)
$R_T$t = Restore Code (Trbl) 1st & 2nd digits
$R_B$b = Restore Code (Byps) 1st & 2nd digits
$R_AA_C$ = Restore Code (AC) 1st & 2nd digits
$R_LL_B$ = Restore Code (Bat) 1st & 2nd digits

* Zone numbers for: [✶] & [#], or B = 7
Duress = 8
Tamper = 9
[1] + [✶], or [A] = 95
[3] + [#], or [C] = 96

**ADEMCO Contact ID® Reporting** takes the following format:

CCCC Q EEE GG ZZZ

where: CCCC = Customer (subscriber) ID

Q = Event qualifier, where:

E = new event , and R = restore

EEE = Event code (3 hexadecimal digits)

**NOTE:** For a complete list of event codes, refer to the central office receiver manual.

GG = Always 00.

ZZZ = Zone/Contact ID® number reporting the alarm, or user number for open/close reports. System status messages (AC Loss, Walk Test, etc.) contain zeroes in the ZZZ location.

**TABLE OF CONTACT ID® EVENT CODES**

| Code | Definition |
|---|---|
| 110 | Fire Alarm |
| 121 | Duress |
| 122 | Alarm, 24-hour Silent |
| 123 | Alarm, 24-hour Audible Panic |
| 131 | Alarm, Perimeter, Burg. |
| 132 | Alarm, Interior, Burg. |
| 134 | Alarm, Entry/Exit, Burg. |
| 135 | Alarm, Day/Night, Burg. |
| 150 | Alarm, 24-Hour Auxiliary |
| 301 | AC Power |
| 302 | Low System Battery/Battery Test Fail |
| 321 | Bell/Siren Trouble |
| 333 | Expansion Module Fail |
| 344 | Trouble, RF Jam Detect |
| 353 | Long-Range Radio Trouble |

| Code | Definition |
|---|---|
| 373 | Fire Loop Trouble |
| 374 | Exit Error Alarm |
| 380 | Trouble (Global) |
| 383 | RF Sensor Tamper |
| 384 | RF Sensor Low Battery |
| 401 | O/C by User |
| 406 | Cancel by User |
| 407 | Remote Arm/Disarm (Download) |
| 408 | Quick Arm AWAY/MAX |
| 441 | Armed STAY/INSTANT, Quick Arm STAY/INSTANT |
| 570 | Bypass |
| 601 | Test, Manually Triggered |
| 602 | Periodic Test |
| 606 | AAV to follow |

### System Communication Programming

Programming information of those data fields that affect communications between the control and the central station is included in *SECTION 4: Data Field Programming* and *SECTION 5: Zone Programming (*✶56 and ✶58 menu modes).

# System Operation

## Security Codes

The system supports up to seven security codes; Installer, Master, four secondary user, and Duress, described as follows:

| Code | Description of Code Function and Programming |
|---|---|
| Installer (User 1) | The factory default Installer Code is "**4-1-1-1**", but may be changed in field ✶20. The Installer code cannot be used to disarm the security system if it was not used to arm the system. The Installer code must be used to program the 4-digit Master Code. |
| Master (User 2) | The Master security code permits access to the system for arming, disarming, etc. Opening and closing reports are sent for the Master Code as No. 02, with the appropriate subscriber number.<br>• To **assign** a Master Code, enter **Installer Code + 8 + 2 + 4-digit Master Code**.<br>• To **change** the Master Code, enter **Master Code + 8 + 2 + New Master Code + New Master Code**<br>Only the Master code can be used to assign, change, or delete the secondary 4-digit user codes. |
| Secondary Users 3-6 | Secondary User codes permit access to the system for arming, disarming, etc.<br>• To **assign (**or **change)** a Secondary security code, enter **Master Code + [CODE] key + User No. (3–6) + desired 4-digit Secondary Code.**<br>To **delete** a Secondary security code, enter **Master Code + [CODE] key + User No. (3–6).**<br>Secondary user codes are sent as Nos. 3 through 6 respectively, with the appropriate subscriber number. |
| Duress (User 8) | Intended for use when **forced** to arm or disarm the system under threat. When used, the system will act normally, but can **silently** notify the central station, **if that service has been provided**.<br>• To **program** a Duress code, enter **Master code + [8] key + [8] key + new 4-digit Duress Code.**<br>• To **change** a Duress code, enter **Master code + [8] key + [8] key + desired 4-digit Duress Code.**<br>• To **delete** a Duress code, enter **Master code + [8] key + [8] key** and stop.<br>The Duress Code must differ from the Master Code or any other User's Code. |

## Keypad Functions

The following is a brief list of system commands. For detailed information concerning system functions, refer to the User's Manual.

| Function or Keypad Display | Description |
|---|---|
| Silence Alarms | Pressing any key silences the keypad sounder for 10 seconds. Disarming the system silences both keypad and external sounders. |
| Disarmed, Not Ready | Before arming, the system must be in the READY condition (all zones must be intact). If the **NOT READY** message appears, press the READY [✶] key to display faulted zones. |
| Arming AWAY | Enter 4-digit security code + AWAY [2] key. |
| Arming STAY | Enter 4-digit security code + STAY [3] key. |
| Arming INSTANT | Enter 4-digit security code + INSTANT [7] key. |
| Arming MAXIMUM | Enter 4-digit security code + MAXIMUM [4] key. |
| Quick Arming (if enabled) | Simply press [#] key in place of code, then press AWAY, STAY, INSTANT, or MAXIMUM to arm system as desired. Note that the [#] key cannot be used in place of the 4-digit security code when disarming the system. |
| Disarming | Enter 4-digit security code + OFF [1] key. |
| Bypassing Zones | Enter 4-digit security code + BYPASS [6] key + zone number(s). |
| Forced (Quick) Bypass (if enabled) | To automatically bypass all faulted zones, use the "Quick Bypass" method: Enter 4-digit security code + BYPASS, then wait for all open zones to be displayed. Arm when display indicates **Bypass** and **Ready to Arm**. |
| Chime Mode | Enter 4-digit security code + CHIME [9] key. To turn chime off, enter code + CHIME again. |

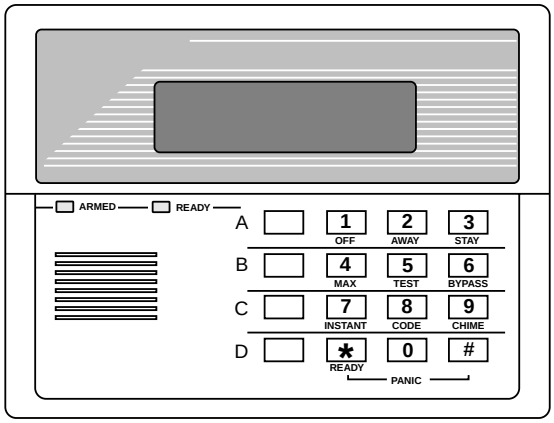
**SUMMARY OF ARMING MODES**

| Arming Mode | Features for Each Arming Mode | | | |
|---|---|---|---|---|
| | Exit Delay | Entry Delay | Perimeter Armed | Interior Armed |
| AWAY | Yes | Yes | Yes | Yes |
| STAY | Yes | Yes | Yes | No |
| INSTANT | Yes | No | Yes | No |
| MAXIMUM | Yes | No | Yes | Yes |

## Panic Keys

There are three individual panic keys and/or, on some keypads, panic key pairs. If programmed, they can be used to manually initiate alarms and send a report to the central station.

Each key (or key pair) can be individually programmed for 24-hour Silent, Audible, Personal, or Fire Emergency responses. The panic function is activated when both keys of the appropriate key pair are pressed at the same time, or the appropriate lettered key is pressed for at least 2 seconds.




Shown above is a typical 2-line alpha keypad with individual Panic keys (shown lettered).

The panic functions are identified by the system as follows:

| Keys | Displayed as Zone |
|---|---|
| [A], or [1] & [*] | 95 |
| [B], or [*] & [#] | 7 |
| [C], or [3] & [#] | 96 |

***Notes:***

- Keys [A], [B], [C] are not on all keypads.
- Key [D], if present, is not active here.

***Important:*** **For the Silent Panic functions to be of practical value, the system must be connected to a central station.**

## 4285/4286 VIP Module (if used)

Refer to the separate instructions supplied with the VIP Module for information concerning its operating procedures.

## Relay Outputs (if used)

If relay outputs are used, two keypad entries available to the user are included among the system operation choices (34 and 35) that may be programmed (see *SECTION 6: Output Device Programming*). They can manually activate or deactivate the relay(s) for starting or stopping some action, such as turning lights on or off, etc.

These keypad entries are: **Security Code + [#] + [7]**

and **Security Code + [#] + [8]**

**NOTE:** The keypad entry that is used to Start/Stop the action, cannot also be used to Stop/Start it. The opposite action must either be performed by the other keypad entry or by some other event or operation offered in *SECTION 6: Output Device Programming*.

## Exit Error Alarm Displays (if programmed)

| 2-Line Alpha Display | Fixed-Word Display | Meaning |
|---|---|---|
| **CANCELED ALARM** | **CA** | A display of **CANCELED ALARM** or **CA** and a zone indication appears if an exit or interior zone contained a fault during closing at the time the exit delay ended (e.g., exit door left open), *and the system was disarmed during the subsequent entry delay time.* The alarm sounder and keypad sound continuously, but stop when the system is disarmed. No message will be transmitted to the central station. |
| **EXIT ALARM** | **EA** | A display of **EXIT ALARM** or **EA** and a zone indication will appear if an exit or interior zone contained a fault during closing at the time the exit delay ended, *and the system was NOT disarmed during the subsequent entry delay time.* The alarm sounder and keypad sound continuously until the system is disarmed (or timeout occurs). An "exit alarm" message is sent to the central station.<br>The **EXIT ALARM** display, etc. also result if an alarm from an exit or interior zone occurs within two minutes after the end of an exit delay. |

**NOTE:** To clear display in either of the two above cases, use a second OFF sequence (**CODE** plus **OFF** [1] key) to clear the display.

SECTION 11

# Testing the System

## Local Tests

After the security system installation is complete, test the system as follows:

1. With the system in the disarmed state, check that all zones are intact. If a **NOT READY** message is displayed, press the [✶] key to display the faulted zone(s). Restore faulted zone(s) if necessary, so that the **READY** message is displayed.
2. Enter the security code and press the TEST [5] key.

   The external sounder will sound for 1 second. If the backup battery is discharged or missing, the sounder may not turn on and a LOW BATTERY report will be transmitted with a TEST report.

   Note that the keypad will beep once every 40 seconds as a reminder that the system is in the Test mode.
3. Fault and restore every sensor individually to assure that it is being monitored by the system. Each time a protection zone is faulted, the keypad will sound 3 beeps, and the identification of each faulted protection zone should appear on the keypad display.

   **NOTE:** For 5800 wireless systems, triggering a zone set to Arm-AWAY, Arm-STAY, or Disarm will take the system out of the TEST mode and cause that action.
4. Walk in front of any interior motion detectors (if used) and listen for the required sound as movement is detected. The identification of the detector should appear on the display when it is activated.

   **NOTE:** Wireless motion detectors (passive infrared units) will send signals out only if they have been inactive for 3 minutes.
5. Follow the manufacturer's instructions to test all smoke detectors, to ensure that all are functioning properly. The identification of each detector should appear on the display when each is activated.
6. Turn off the test mode by entering the security code and pressing the OFF [1] key.

## Communication Tests

**Alarm messages will be sent to the central station during the following tests. Notify CS personnel *in advance* that tests will be in progress.**

1. Arm the system (STAY) and fault one or more perimeter zones. After 15 seconds, silence alarm sounder(s) by entering the security code and pressing the OFF [1] key.

   Arm the system AWAY, and check the Entry/Exit zones for the programmed exit and entry delays.
2. Check the keypad-initiated alarms that are in the system by using the Panic keys (or key pairs on some keypads). If a key (or key pair) has been programmed for audible emergency, the keypad will emit a steady alarm sound, and **ALARM** and zone number will be displayed.

   If a key (or key pair) has been programmed for silent emergency, there will be no audible alarms or displays, but a report will be sent to the central station.

   If a key (or key pair) has been programmed for fire, the keypad and external sounder will emit an interrupted alarm sound, and **ALARM, FIRE** and **zone number** will be displayed.

   Silence alarms by entering the security code and pressing the OFF [1] key.
3. If Output Relay Units have been installed, test their programmed action.
4. Notify the central station when all tests are finished, and verify results with them.

   To test the wireless part of the system and the RF Receiver, perform the two following tests: **Transmitter Sniffer Mode** and **Go/NoGo Test Mode.**

## Transmitter Sniffer Mode

*Make sure the system is **disarmed** before trying to enter this mode.*

1. Key **Installer Code** + **[#]** + **[3]**. This initiates a procedure that checks that all 5800 Series transmitters have been properly programmed.

**NOTE:** If the communicator is in the process of sending a report to the central station, the system will not go into the Sniffer mode. If so, wait a few minutes, and try again.

The keypad displays all zone numbers of wireless units programmed into the system. As the system receives a signal from each of the transmitters, the zone number of that transmitter disappears from the display. The transmitter codes may be checked upon installation, or in an installed system.

All the wireless zone numbers should disappear after about 1-1/2 hours.

**NOTE:** Any transmitter that is not properly entered into the system will not turn off its zone number.

2. Exit the Transmitter Sniffer mode by keying **Installer code + OFF [1]** key.

## Go/No Go Test Mode

By keying **Installer code** + **[#]** + **[4]**, a mode similar to the test mode is entered, but the wireless receiver gain is reduced. Checking in this mode not only assists in determining good mounting locations for the transmitters when the system is being installed, but also verifies that the RF transmission has sufficient signal amplitude margin for the installed system.

1. Enter the **Installer code** + **[#]** + **[4]**.
2. Once transmitters are placed in their desired locations and the approximate length of wire to be run to sensors is connected to the transmitter's screw terminals, fault each transmitter. *Do not conduct this test with your hand wrapped around the transmitter, as this will cause inaccurate results.*
   - The keypad will beep three times to indicate signal reception.
   - If the keypad does not beep, reorient or move the transmitter to another location. Usually a few inches in either direction is all that is required.
3. Exit the Go/NoGo mode by keying **Installer code + OFF [1]** key.

## Automatic Standby Battery Tests

An automatic test is conducted every 4 minutes to ensure that a standby battery is present and properly connected. If a battery is not present or is not properly connected, a SYSTEM LO BAT message is displayed and, if so programmed, is reported to the central station.

A battery capacity test is automatically conducted for 2 minutes every 6 hours, beginning 6 hours after exiting the Programming mode or after powering up the system. In addition, entry into the Test mode will also cause a battery capacity test to be initiated. If the battery cannot sustain a load, a SYSTEM LO BAT message is displayed and, if programmed to do so, sends a report to the central station.

## Trouble Conditions

The word **CHECK** on the keypad's display, accompanied by a rapid beeping at the keypad, indicates that there is a trouble condition in the system. The audible warning sound can be silenced by pressing any key.

Instruct users to call for service immediately upon seeing any of the following messages:

### CHECK and BATTERY Displays

- A display of **CHECK** and one or more zone numbers indicates that a problem exists with the displayed zone(s) and requires attention.
- A display of **CHECK** and **09** indicates that communication between control and a zone expander or wireless receiver is interrupted. Check the wiring and DIP switch settings on the units. Also see **CHECK 70** and **CHECK 90** below.
- If there are wireless sensors in the system, the **CHECK** condition may also be caused by some change in the environment that prevents the receiver from receiving signals from a particular sensor.
- A display of **BAT** (on fixed-word keypads) or **SYSTEM LO BAT** (on alpha keypads) with no zone number indicates that the system's main standby battery is weak.
- A display of **BAT** (on fixed-word keypads) or **LO BAT** (on alpha keypads) with a zone number and a once per minute "beeping" at the keypad indicates that a low battery condition exists in the wireless sensor displayed (zone "00" indicates a wireless keypad). If the battery is not replaced within 30 days, a **CHECK** display may occur.
- Bell Failure **(CHECK 70)** Wiring loop to external sounder is either open or shorted.
- RCVR Jam **(CHECK 90)** RF jam detected.
- **NOTE:** Some wireless sensors contain a nonreplaceable long-life battery that requires replacement of the entire unit at the end of battery life (e.g., 5802, 5802CP).

## Power Problems

- If the keypad display is blank, and the POWER indicator (if present) is not lit, primary AC power for the system has been interrupted. In this case, the backup battery is also missing or totally discharged, the system will remain inoperative until AC power and/or battery backup power is restored to normal.

  **NOTE:** The control panel always powers up in its previous state (armed or disarmed) after a complete power failure, but will **not** retain any memory of bypasses.
- If the message **AC LOSS** (on alpha keypads) or NO AC (on fixed-word keypads) is displayed, and the POWER indicator (if present) is off, the keypad is operating on battery power only.

  **NOTE:** There is a random delay of up to 30 minutes before the system will report an AC failure to the central station. The keypad response is about 6 seconds. The Restore Report has a random delay of up to 30 minutes (if the AC Failure Report was sent).
- If the battery standby capacity is used up during a prolonged AC power outage, the control's auxiliary power will shut down to minimize deep discharge of the battery.

## Other Displays (fixed-word keypad displays are in parentheses)

**Busy-Standby (dI).** If this remains displayed for more than 1 minute, the system is disabled.

**Modem Comm (CC)** The system is in communication with the central station for change of function or status verification.

**Comm. Failure (FC)** A communication failure has occurred.

**Open Circuit (OC)** The keypad is not receiving signals from the control and sees an open circuit.

**Long Rng Trbl (bF)** Backup LRR communication failure.

### TO THE INSTALLER

Regular maintenance and inspection (at least annually) by the installer and frequent testing by the user are vital to continuous satisfactory operation of any alarm system.

The installer should assume the responsibility of developing and offering a regular maintenance program to the user as well as acquainting the user with the proper operation and limitations of the alarm system and its component parts. Recommendations must be included for a specific program of frequent testing (at least weekly) to insure the system's proper operation at all times.

## Troubleshooting Guide

**CONTROL PANEL**

| SYMPTOM | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| **1. AC POWER light off or NO AC displayed** | 1a. Interrupted primary AC power. | 1a. Check transformer connection and power line circuit breaker. |
| **2. Digital communicator message not being received.** | 2a. Control in Test mode.<br>2b. Telephone connection not secure.<br>2c. Digital communicator malfunctioning.<br>2d. Telephone number in program needs prefix or access code.<br>2e. Telephone call to central monitoring station requires operator assistance. | 2a. Remove from Test mode.<br>2b. Check all connections.<br>2c. Check with a different VISTA-10SE.<br>2d. Program prefix or access code into the control.<br>2e. System cannot work in this situation. |
| **3. Does not arm properly.** | 3a. **READY** light not on. | 3a. Check for faulted zone(s) by pressing [✶] and make intact, or use Bypass arming, if desired. |
| **4. VISTA-10SE doesn't respond to keystrokes on keypad.** | 4a. **CC** or **MODEM COMM** displayed.<br>4b. **dI** or **SYSTEM BUSY** displayed.<br>4c. **E4** or **E8** displayed.<br>4d. Keypad address setting incorrect. | 4a. System is in communication with downloader at Central Station. Wait until download session is finished.<br>4b. System has just been powered and is in its 1-minute initialization.To bypass this time, press [#] + [0].<br>4c. More zones have been programmed than the zone expansion modules can handle.Delete some zones or use a higher capability RF receiver.<br>4d. Keypads must be set for address 31 (non-addressable mode). |

## Troubleshooting Guide (continued)

### SYSTEM (including Wireless)

| SYMPTOM | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| **1. Transmitter signal not received at 5881 Receiver** | 1a. Transmitter or 5881 not properly powered. | 1a Check or change transmitter's battery. Check control's AC power. |
| | 1b. If transmitter is 5827/5827BD: House Code not set in field ✶24, or transmitter not set to same House Code set in that field. | 1b. Check code switches inside transmitter. Transmitter code must match with RF House Code programmed in control. |
| | 1c. Transmitter located too far from 5881. | 1c. Move transmitter or RF receiver. |
| | 1d. Metal shielding between transmitter and RF receiver. | 1d. Check for large metal obstructions, then relocate transmitter if necessary. |
| | 1e. Transmitter malfunctioning. | 1e. Verify by activating 5881 with another, similar transmitter. If OK now, return defective transmitter. |
| | 1f. 5881 RF receiver malfunctioning. | 1f. Verify by making sure other transmitters cannot activate 5881. If defective, replace and return original 5881. |
| | 1g. Transmitter no. (zone) not programmed. | 1g. Verify programming. |
| | 1h. 5881 RF receiver address incorrect. | 1h. Set DIP switch on 5881 for address “0.” |
| | 1i. Field ✶22 not set properly. | 1i. Program ✶22 for option 1 or 4. |
| | 1j. 5881 RF receiver experiencing interference. | 1j. 5881 system set for RF Jam detection (option 4 in field ✶22). Check for source of interference. If necessary, set for "no RF Jam Detection" (option 1). |
| **2. Transmitter zone number appears during Transmitter Sniffer test but does not clear.** | 2a. Transmitter zone type (ZT) is set to **00** (Not Used). | 2a. Set ZT to a valid active zone type in field ✶56 or ✶58. |
| | 2b. Transmitter battery not installed. | 2b. Install proper battery. |
| | 2c. 5800 system transmitter's DIP switch not set properly (house ID and transmitter ID). | 2c. Check and set the DIP switch. |
| | 2d. 5800 system transmitter serial number not entered in system. | 2d. Enter unit's serial number in field ✶56 or ✶58. |
| | 2e. With 5800 system, no response at all to *any* transmitter. | 2e. Check 5881 RF receiver. |
| **3. Low Battery message on keypad** | 3a. **BAT** or **SYSTEM LO BAT** (no zone nos.). | 3a. System battery is low or missing. Replace battery. |
| | 3b. **BAT** or **LO BAT** + **00** | 3b. Remote RF keypad battery is low - replace |
| | 3c. **BAT** or **LO BAT** + **nn** | 3c. Transmitter in zone “nn” has a low battery – replace. |
| **4. Periodic beep(s) from keypad.** | 4a. System is in TEST mode. | 4a. Enter 4-digit security Code + OFF [1] key to exit TEST mode. |
| | 4b. A transmitter low battery has occurred and is displayed. | 4b. Enter 4-digit security Code + OFF [1] key and replace the battery. |
| | 4c. A supervision CHECK has occurred. | 4c. Check the transmitter in the zone indicated. Restore communication to the receiver to cancel the condition. |
| **5. With 5800 system, no response to a transmitter in normal operation, although zone number clears during Transmitter Sniffer test.** | Control not in TEST mode. | Put control in TEST mode. If zone does not respond, try operating the tamper switch or substitute another transmitter. |
| | 5a. If another transmitter causes the zone to be displayed, the wrong loop transmitter was enrolled when programming. | 5a. Delete input's serial number (not the zone), and enroll the proper input (see field ✶56 or ✶58). |

## Troubleshooting Guide (continued)

### SYSTEM (including Wireless)

| SYMPTOM | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| | 5b. If no response at all from this transmitter, this physical transmitter has not been enrolled by the system. Transmitter Sniffer display is being cleared by another transmitter programmed for this zone. | 5b. Determine which transmitter is programmed for this zone and reprogram as necessary. |
| **6. Nuisance or phantom alarm.** | 6a. Sensors not properly installed, wired, or monitored.<br>6b. Transmitter (5800 series) programmed wrong. | 6a. Check installation to see if in accordance with established procedure.<br>6b. Check transmitter serial number. |
| **7. Intrusion alarm for no apparent reason.** | 7a. Protected door or window inadvertently opened while system is armed.<br>7b. Improper user operation of exit/entry delays.<br>7c. Magnets located too far from switches, and/or doors and windows not properly aligned. | 7a. Check with all occupants of protected premises.<br>7b. Check setting of entry delay time. Exit delay is 15 seconds longer than the programmed entry delay time. Remind user of same.<br>7c. Check all openings for proper switch and magnet orientation. |
| **8. Repeated low battery signal.** | 8a. Transmitter located where temperature drops below 32 F.<br>8b. Poor quality or unspecified battery in transmitter.<br>8c. Transmitter malfunctioning. | 8a. Change location. Use magnetic contacts to protect opening.<br>8b. Check battery. Use only batteries specified in the instructions (does not apply to transmitters with nonreplaceable batteries).<br>8c. Replace faulty transmitter. |
| **9. Local bell and keypad sound continuously after arming.** | 9. Exit or interior zone contained a fault at end of Exit Delay time (e.g., Exit door left open).<br>*The Exit Alarm display, etc. will also result if an alarm from an exit or interior zone occurs within two minutes after the end of an exit delay.* | 9a. If system is disarmed *before* ensuing entry time runs out, **CA** or **Canceled Alarm** will be displayed. Sounding will stop.<br>9b. If system is *not* disarmed before entry time ends, **EA** or **Exit Alarm** message is sent to central station. Sounding will continue until system is disarmed or timeout occurs.<br>Clear display be entering code + OFF [1] key a second time. Avoid fault when rearming. |
| **10. Continuous beeping at the keypad, accompanied by a display of Bell Failure on alpha keypads, or CHECK 70 on Fixed-Word keypads.** | 10. External sounder wiring loop either shorted or open. | 10. Check wiring to sounder and connections at sounder itself. Make sure a 1000 ohm resistor is connected across the sounder terminals, and **not directly across the control's alarm output terminals**. |

### SMOKE DETECTOR

| SYMPTOM | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| **1. Detector alarms, no apparent reason.** | 1a. Dust, dirt in sensing chamber.<br>1b. Improper location<br>1c. Unit malfunctioning. | 1a. Clean unit's sensing chamber with vacuum cleaner per unit's instructions.<br>1b. See unit's instructions for locations to avoid. Relocate as necessary.<br>1c. Replace detector. |
| **2. Detector's siren sounds.** | 2a. Unit not receiving required power.<br>2b. Unit malfunctioning. | 2a. Check for proper installation of battery. Try new battery.<br>2b. Replace detector. |

SECTION 12

# Remote Programming and Control (Downloading)

## About Remote Programming

The VISTA–10SE can be remotely programmed from an IBM compatible Personal Computer (PC), a modem, and ADEMCO's *Compass* Windows downloading software.

Programming the control from a remote location is protected against compromise by someone attempting to defeat the system, using multi-levels of security protection:

1. **Security Code Handshake:** An 8-digit download ID code must be matched between the control and the downloader.
2. **Site-Initiated Remote Programming:** Telco Hand-off feature allows the technician at the site to call the downloading facility from the control panel phone line, initiate a site download (Installer or Master Code + # + 1), and the control will immediately be on-line with the modem at the downloading facility. Also, if a local computer has a modem, the telephone line terminals of the control can be connected to the modem, and a direct download connection can be established with the new downloader program.
3. **Station-Initiated Remote Programming:** The operator calls the site from your office to initiate the download call. The control hangs up and then calls back the PC via the pre-programmed telephone number. The unit can then be uploaded, downloaded, or controlled from your office.

   The control can also be set for no callback by the downloader.
4. **Data Encryption:** Data passed between the PC and the control is encrypted for security so that it is very difficult for a foreign device tapped into the phone line to take over communication and substitute system-compromising information.

**UL** Downloading is not permissible for UL installations unless an installer is present at the installation site.

## Equipment Required

**At the premises:**

- VISTA–10SE and keypad.

**At the installer's office/home:**

- An IBM PC-compatible computer
- *Either* a HAYES OPTIMA 336 External, *or* an Optima 24 Plus FAX96 Modem
- ADEMCO's *Compass* Windows downloading software
- Appropriate interconnecting cables.

## Remote Programming Information

The downloading system can perform many functions when in communication with the control unit. Besides uploading and downloading, the status of the system can be observed and various commands can be initiated, as follows:

Arm the system in the AWAY mode; disarm the system.

Bypass a zone.

Shut down communication (dialer) functions (e.g., for non-payment of monitoring fees in an owned system).

# Specifications and Accessories

## VISTA-10SE Security Control

1. **Physical:** 12-1/2" W x 14-1/2" H x 3" D (318mm x 368mm x 76mm)

2. **Electrical:**

   **VOLTAGE INPUT:** 16.5VAC from plug-in 25VA transformer, ADEMCO No. 1321

   **RECHARGEABLE BACKUP BATTERY:** 12VDC, 4AH-17.2AH (Sealed Lead Acid).

   Refer to *Backup Battery* paragraph in *SECTION 2: Installing the Control & Peripherals* to determine the actual battery size needed.

   Charging Voltage: 13.8VDC.

   **ALARM SOUNDER:** 12V, 2.0 Amp output can drive 12V BELLS or can drive one or two 702 (**series** connected) self-contained 20-watt sirens. Do **not** connect two 702s in parallel.

   **AUXILIARY POWER OUTPUT:** 12VDC, 600mA max. (500mA max for UL installations). Interrupts for 4-wire smoke detector reset.

   **UL INSTALLATIONS:** *Alarm Sounder plus Auxiliary Power currents must not exceed 600mA total.*

   **FUSE:** Battery (3A) No. 90–12.

3. **COMMUNICATION:**

   FORMATS SUPPORTED:

   **ADEMCO Contact ID® Reporting**

   10 characters/sec., DTMF (TouchTone) Data Tones, 1400/2300Hz ACK, 1400Hz KISSOFF.

   **ADEMCO Express (4 + 2)**

   10 characters/sec., DTMF (TouchTone) Data Tones, 1400/2300Hz ACK, 1400Hz KISSOFF.

   **ADEMCO Lo Speed**

   10 pulses/sec, 1900Hz Data Tone, 1400Hz ACK/KISSOFF.

   **Radionics/SESCOA**

   20 pulses/sec, 1800Hz Data Tone, 2300Hz ACK/KISSOFF. Can report 0-9 and B-F.

   **Radionics Standard/SESCOA (3 + 1, 4 + 1)**

   20 pulses/sec, 1800Hz Data Tone, 2300Hz ACK/KISSOFF. Can report 0-9 and B-F.

   **Radionics Expanded/SESCOA (3 + 1, 4 + 1)**

   20 pulses/sec, 1800Hz Data Tone, 2300Hz ACK/KISSOFF. Can report 0-9 and B-F.

   **Line Seize: Double Pole.**

   **Ringer Equivalence:** 0.7B.

   **FCC Registration No.:** AC 398U–68192–AL–E.

4. **MAXIMUM ZONE RESISTANCE:** Zones 1-6 = 300 ohms excluding EOLR.

5. **ZONE RESPONSE TIME:** Zones 1-6: 300-500mSec. Zone 3 can be programmed for N.C. sensor fast (10mSec max.) response to an open.

## Specifications and Accessories (continued)

### Compatible Devices

#### 6127 REMOTE KEYPAD

**1. Physical:** 5-3/4" W x 4-3/4" H x 1" D (146mm x 121mm x 26mm).

**2. Electrical:** Voltage Input: 12VDC; Current Drain: 20mA.

**3. Interface Wiring:** To control panel's keypad connection points.

RED: +12VDC input aux power
GREEN: Data Out to Control
YELLOW: Data In from Control
BLACK: Ground

#### 6128 REMOTE KEYPAD

**1. Physical:** 5-3/4" W x 4-3/4" H x 1" D (146mm x 121mm x 26mm).

**2. Electrical:** Voltage Input: 12VDC; Current Drain: 30mA.

**3. Interface Wiring:** Refer to 6127 keypad.

#### 6137 REMOTE KEYPAD

**1. Physical:** 6-1/4" W x 4-3/4" H x 1" D (159mm x 121mm x 26mm).

**2. Electrical:** Voltage Input: 12VDC; Current Drain: 85mA.

**3. Interface Wiring:** Refer to 6127 keypad.

#### 6138 & 6139 REMOTE KEYPADS

**1. Physical:** 6-1/4" W x 4-3/4" H x 1" D (159mm x 121mm x 26mm).

**2. Electrical:** Voltage Input: 12VDC; Current Drain: 100mA

**3. Interface Wiring:** Refer to 6127 keypad.

#### 5800 System RF Receivers (5881L, 5881M, 5881H)

**1. Physical:** 7-3/8" W x 4-3/8" H x 1-7/16" D (188mm x 112mm x 37mm).

**NOTE:** 10-7/8" H (277mm) with antennas installed.

**2. Electrical:** Voltage Input: 12VDC; Current Drain: 35mA

**3. Interface Wiring:** Refer to 6127 keypad.

**4. Range:** 200 ft (60m) nominal indoors from wireless transmitters (actual range to be determined with system in TEST mode).

**5. Zones:** (With the (*ADEMCO VISTA-10SE*)

5881L: accepts up to 8 transmitters

5881M/5881H: accepts up to 16 transmitters.

#### 5800TM Transmitter Module (used with 5827BD Wireless 2-Way Keypad)

**1. Physical:** 2-1/4" W x 4-1/8" H x 7/8" D (57mm x 105mm x 22mm).

**2. Electrical:** Voltage Input: 12VDC; Current Drain: 20mA

**3. Interface Wiring:** Refer to 6127 keypad.

#### 4204 Relay Module

**1. Physical:** 6-1/2" W x 4-1/4" H x 1-1/4" D (169mm x 108mm x 32mm).

**2. Electrical:** Voltage Input: 12VDC; Current Drain: 15mA (Relays off); 180mA (Relays on).

**3. Interface Wiring:** Refer to 6127 keypad.

**4. Four Output Relays:** SPDT Contacts. Rating: 2A max at 28VDC/AC.

## Specifications and Accessories (continued)

### 4285 and 4286 VIP Modules

**1. Physical:** 6-1/2" W x 4-1/4" H x 1-1/4" D (169mm x 108mm x 32mm).

**2. Electrical:** Voltage Input: 12VDC;
4285 Current Drain: 160mA
4286 Current Drain: 300mA.

**3. Device Address:** Permanently set to address 4.

**4. Interface Wiring:** See *4285/4286 VIP MODULE* paragraph in .

**5. Telephone Line Connections:** See *4285/4286 VIP MODULE* paragraph in *SECTION 2.*

### Long Range Radios – 7720/7820 PLUS/7835C

**1. Physical:** 8-1/2" W x 9-1/2" H x 1-3/4" D (216mm x 242mm x 45mm).

**2. Electrical:** Voltage Input: 12VDC; Current Drain: 150mA

**3. Device Address:** Set to address 3.

**4. Interface Wiring:** See *Long Range Radio paragraph in SECTION 2.*

### Accessories (Compatible Devices)

**1321** 16.5VAC, 25VA Plug-In Transformer (in USA)

### Compatible 4-Wire Smoke/Combustion Detectors

#### System Sensor

**1412** 4-wire ionization products of combustion detector.

**2412** 4-wire photoelectric smoke detector.

**2412TH** 4-wire photoelectric smoke detector w/135º F (57º C) heat detector.

**A77–716B** EOL relay module (supervisory module for wired 4-wire fire zone).

**2112/24T** Low-profile 4-wire photoelectric smoke detector w/135º F (57º C) heat detector.

### Compatible Sounders

| | |
|---|---|
| **ADEMCO AB-12M 10" Motorized Bell & Box** | Motor bell & box. UL Grade A. 100mA current drain. |
| **ADEMCO 1011BE12M 10" Motorized Bell & Box** | Motor bell & box. UL Listed. 100mA current drain. |
| **ADEMCO 702 Outdoor Siren** | Self-contained 6–12 volt siren (driver built-in) and weatherproof for outdoor use. Can be wired for either a steady or warble sound. 117dB @ 10 feet. 1500mA current drain. |
| **ADEMCO 719 2-Channel Siren** | Self-contained 6–12-volt siren (driver built in). Steady or warble sound. 109dB @ 10 feet. 550mA current drain. |
| **ADEMCO 747 Indoor Siren** | Self-contained 6–15 volt siren (driver built-in) for indoor wall mount. 747F available for flush mounting. 105dB @ 10 feet. 400mA current drain. |
| **ADEMCO 747UL Indoor Siren** | Self-contained 6–15 volt siren (driver built-in) for indoor wall mount. UL Listed. 85dB @ 10 feet. 320mA current drain. |
| **ADEMCO 744 Siren Driver** | 6 jumper-selected sound outputs. Rated at 119dB with use of an 8-ohm 30 watt speaker. 1.3 amps current drain. |

## Specifications and Accessories (continued)

**Compatible Sounders (continued)**

| | |
|---|---|
| **ADEMCO 745X3 Voice Siren Driver** | 12-volt voice siren driver with English, Spanish, and French voice messages. Separate messages for fire and burglary. Use with 8-ohm speaker. UL Listed. 1100mA current drain. **NOTE:** Requires special power wiring, using additional components. |
| **ADEMCO 705–820, 5-inch Round Speaker** | 20-watt, 8-ohm indoor or outdoor speaker. Requires a driver. |
| **ADEMCO 713 Speaker** | 40-watt, 8-ohm, indoor/outdoor speaker. Requires a driver. |
| **System Sensor PA400B (beige)/PA400R (red) Indoor Piezo Sounder** | Indoor piezo sounder (red or beige), rated at 90 dB @ 10 feet. |

**UL** Use only UL Listed sounding devices in UL installations.

# Regulatory Agency Statements

## FEDERAL COMMUNICATIONS COMMISSION (FCC) PART 15 STATEMENT

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user or installer may find the following booklet prepared by the Federal Communications Commission helpful: "Interference Handbook"

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402.

*The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.*

## FEDERAL COMMUNICATIONS COMMISSION (FCC) PART 68 STATEMENT

This equipment complies with Part 68 of the FCC rules. On the front cover of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

This equipment uses the following jacks: An RJ31X is used to connect this equipment to the telephone network.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact the manufacturer for repair and warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved.

There are no user serviceable components in this product, and all necessary repairs must be made by the manufacturer. Other repair methods may invalidate the FCC registration on this product.

This equipment cannot be used on telephone company-provided coin service. Connection to Party Line Service is subject to state tariffs.

This equipment is hearing-aid compatible.

When programming or making test calls to an emergency number, briefly explain to the dispatcher the reason for the call. Perform such activities in the off-peak hours; such as early morning or late evening.

## UL NOTICES

1. This is a "Grade A" residential system.
2. The 4285/4286 VIP Module and 7720PLUS, 7820, or 7835C Long-Range Radios are not approved for use in UL installations.
3. The Entry Delay (field ✶38) cannot be greater than 45 seconds for UL installations.
4. The maximum number of reports per armed period (field ✶92) must be unlimited (set to 1) for UL installations.
5. Periodic testing (field ✶49) must be at least every 24 hours (set to 1) for UL installations.
6. Alarm Sounder plus Auxiliary Power currents must not exceed 600mA total for UL installations.
7. Downloading is not permissible for UL installations unless an installer is present at the installation site.

## CALIFORNIA STATE FIRE MARSHAL (CSFM) AND UL RESIDENTIAL FIRE 24 HOUR BATTERY BACKUP REQUIREMENTS

The California State Fire Marshal and UL have regulations that require all residential fire alarm control panels to be provided with a backup battery that has sufficient capacity to operate the panel and its attached peripheral devices for 24 hours in the intended standby condition, followed by at least 4 minutes in the intended fire alarm signaling condition.

This control panel can meet these requirements without using a supplementary power supply, provided that the panel's auxiliary power and bell output currents are limited as indicated below.

**OUTPUT LIMITATIONS TO MEET CSFM 24 HOUR BATTERY BACKUP REQUIREMENTS AND UL LISTED RESIDENTIAL FIRE INSTALLATIONS**

| OUTPUT CURRENT LIMITATIONS | | BATTERY INFORMATION | |
|---|---|---|---|
| **OUTPUT CURRENT TOTAL** | **MAXIMUM AUXILIARY CURRENT** | **BATTERY CAPACITY TO USE (Amp/Hrs)** | **RECOMMENDED BATTERY (Yuasa Model No.)** |
| 600mA maximum total of auxiliary power plus bell output currents | 45mA<br>160mA<br>200mA<br>425mA<br>500mA | 4AH<br>7AH<br>8AH<br>14AH<br>17.2AH | NP4-12<br>NP7-12<br>NP4-12 (two)‡<br>NP7-12 (two)‡<br>NPG18-12 |

‡**NOTE:** Use two batteries, connected in parallel. Obtain an ADEMCO Battery Harness kit. A dual-battery harness is provided with the kit. Both batteries will fit inside the panel's cabinet.

*A P P E N D I X B*

# Limitations and Warranties

**WARNING**

**THE LIMITATIONS OF THIS ALARM SYSTEM**

While this System is an advanced design security system, it does not offer guaranteed protection against burglary, fire or other emergency. Any alarm system, whether commercial or residential, is subject to compromise or failure to warn for a variety of reasons. For example:

- Intrusion detectors (e.g., passive infrared detectors), smoke detectors, and many other sensing devices will not work without power. Battery-operated devices will not work without batteries, with dead batteries, or if the batteries are not put in properly. Devices powered solely by AC will not work if their AC power supply is cut off for any reason, however briefly.
- Signals sent by wireless transmitters may be blocked or reflected by metal before they reach the alarm receiver. Even if the signal path has been recently checked during a weekly test, blockage can occur if a metal object is moved into the path.
- A user may not be able to reach a panic or emergency button quickly enough.
- While smoke detectors have played a key role in reducing residential fire deaths in the United States, they may not activate or provide early warning for a variety of reasons in as many as 35% of all fires, according to data published by the Federal Emergency Management Agency. Some of the reasons smoke detectors used in conjunction with this System may not work are as follows. Smoke detectors may have been improperly installed and positioned. Smoke detectors may not sense fires that start where smoke cannot reach the detectors, such as in chimneys, in walls, or roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level of a residence or building. A second floor detector, for example, may not sense a first floor or basement fire. Finally, smoke detectors have sensing limitations. No smoke detector can sense every kind of fire every time. In general, detectors may not always warn about fires caused by carelessness and safety hazards like smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches, or arson. Depending on the nature of the fire and/or location of the smoke detectors, the detector, even if it operates as anticipated, may not provide sufficient warning to allow all occupants to escape in time to prevent injury or death.
- Passive Infrared Motion Detectors can only detect intrusion within the designed ranges as diagrammed in their installation manual. Passive Infrared Detectors do not provide volumetric area protection. They do create multiple beams of protection, and intrusion can only be detected in unobstructed areas covered by those beams. They cannot detect motion or intrusion that takes place behind walls, ceilings, floors, closed doors, glass partitions, glass doors, or windows. Mechanical tampering, masking, painting or spraying of any material on the mirrors, windows or any part of the optical system can reduce their detection ability. Passive Infrared Detectors sense changes in temperature; however, as the ambient temperature of the protected area approaches the temperature range of 90° to 105°F (32° to 40°C), the detection performance can decrease.
- Alarm warning devices such as sirens, bells or horns may not alert people or wake up sleepers if they are located on the other side of closed or partly open doors. If warning devices are located on a different level of the residence from the bedrooms, then they are less likely to waken or alert people inside the bedrooms. Even persons who are awake may not hear the warning if the alarm is muffled by noise from a stereo, radio, air conditioner or other appliance, or by passing traffic. Finally, alarm warning devices, however loud, may not warn hearing-impaired people.
- Telephone lines needed to transmit alarm signals from a premises to a central monitoring station may be out of service or temporarily out of service. Telephone lines are also subject to compromise by sophisticated intruders.
- Even if the system responds to the emergency as intended, however, occupants may have insufficient time to protect themselves from the emergency situation. In the case of a monitored alarm system, authorities may not respond appropriately.
- This equipment, like other electrical devices, is subject to component failure. Even though this equipment is designed to last as long as 20 years, the electronic components could fail at any time.

The most common cause of an alarm system not functioning when an intrusion or fire occurs is inadequate maintenance. This alarm system should be tested weekly to make sure all sensors and transmitters are working properly. The security keypad (and remote keypad) should be tested as well.

Wireless transmitters (used in some systems) are designed to provide long battery life under normal operating conditions. Longevity of batteries may be as much as 4 to 7 years, depending on the environment, usage, and the specific wireless device being used. External factors such as humidity, high or low temperatures, as well as large swings in temperature, may all reduce the actual battery life in a given installation. This wireless system, however, can identify a true low battery situation, thus allowing time to arrange a change of battery to maintain protection for that given point within the system.

Installing an alarm system may make the owner eligible for a lower insurance rate, but an alarm system is not a substitute for insurance. Homeowners, property owners and renters should continue to act prudently in protecting themselves and continue to insure their lives and property.

We continue to develop new and improved protection devices. Users of alarm systems owe it to themselves and their loved ones to learn about these developments.

## ADEMCO LIMITED WARRANTY

Alarm Device Manufacturing Company, a Division of Pittway Corporation, and its divisions, subsidiaries and affiliates ("Seller"), 165 Eileen Way, Syosset, New York 11791, warrants its products to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for 24 months from the date stamp control on the product or, for products not having an ADEMCO date stamp, for 12 months from date of original purchase unless the installation instructions or catalog sets forth a shorter period, in which case the shorter period shall apply. Seller's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any product which is proved not in compliance with Seller's specifications or proves defective in materials or workmanship under normal use and service. Seller shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than ADEMCO factory service. For warranty service, return product transportation prepaid, to ADEMCO Factory Service, 165 Eileen Way, Syosset, New York 11791.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO CASE SHALL SELLER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, OR UPON ANY OTHER BASIS OF LIABILITY WHATSOEVER, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

Seller does not represent that the products it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the products will in all cases provide adequate warning or protection. Customer understands that a properly installed and maintained alarm may only reduce the risk of a burglary, robbery, fire or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. HOWEVER, IF SELLER IS HELD LIABLE, WHETHER DIRECTLY OR INDIRECTLY, FOR ANY LOSS OR DAMAGE ARISING UNDER THIS LIMITED WARRANTY OR OTHERWISE, REGARDLESS OF CAUSE OR ORIGIN, SELLER'S MAXIMUM LIABILITY SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT, WHICH SHALL BE THE COMPLETE AND EXCLUSIVE REMEDY AGAINST SELLER. This warranty replaces any previous warranties and is the only warranty made by Seller on this product. No increase or alteration, written or verbal, of the obligations of this Limited Warranty is authorized.

## Canadian Department Of Communications (DOC) Statement

NOTICE

The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single-line individual service may be extended by means of certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

**Caution:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100.

### AVIS

L'étiquette du ministère des Communications du Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme à certaines normes de protection, d'exploitation et de sécurité des réseaux de télécommunications. Le ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunications. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. Dans certains cas, les fils intérieurs de l'entreprise utilisés pour un service individuel à la ligne unique peuvent être prolongés au moyen d'un dispositif homologué de raccordement (cordon prolongateur téléphonique interne). L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empèchet pas la dégradation du service dans certaines situations. Actuellement, les entreprises de télécommunications ne permettent pas que l'on raccorde leur matériel aux prises d'abonnés, sauf dans les cas precis prévus par les tarifs particuliers de ces entreprises.

Les réparations du matériel homologué doivent être effectuées pas un centre d'entretien canadien autorisé désigné par le fournisseur. La compagnie de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise en terre de la source d'énergie électrique, des lignes téléphoniques de réseau de conduites d'eau s'il y en a, soient raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales.

**Avertissement:** L'utilisateur ne doit pas tenter de faire ces raccordements lui-même il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas. L'indice de charge (IC) assigné à chaque dispositif terminal pour éviter toute surcharge indique le pourcentage de la charge totale qui peut être raccordé à un circuit téléphonique bouclé utilisé par ce dispositif. La terminaison du circuit bouclé peut être constituée de n'importe quelle combinaison de dispositifs, pourvu que la somme des indices de charge de l'ensemble des dispositifs ne dépasse pas 100.

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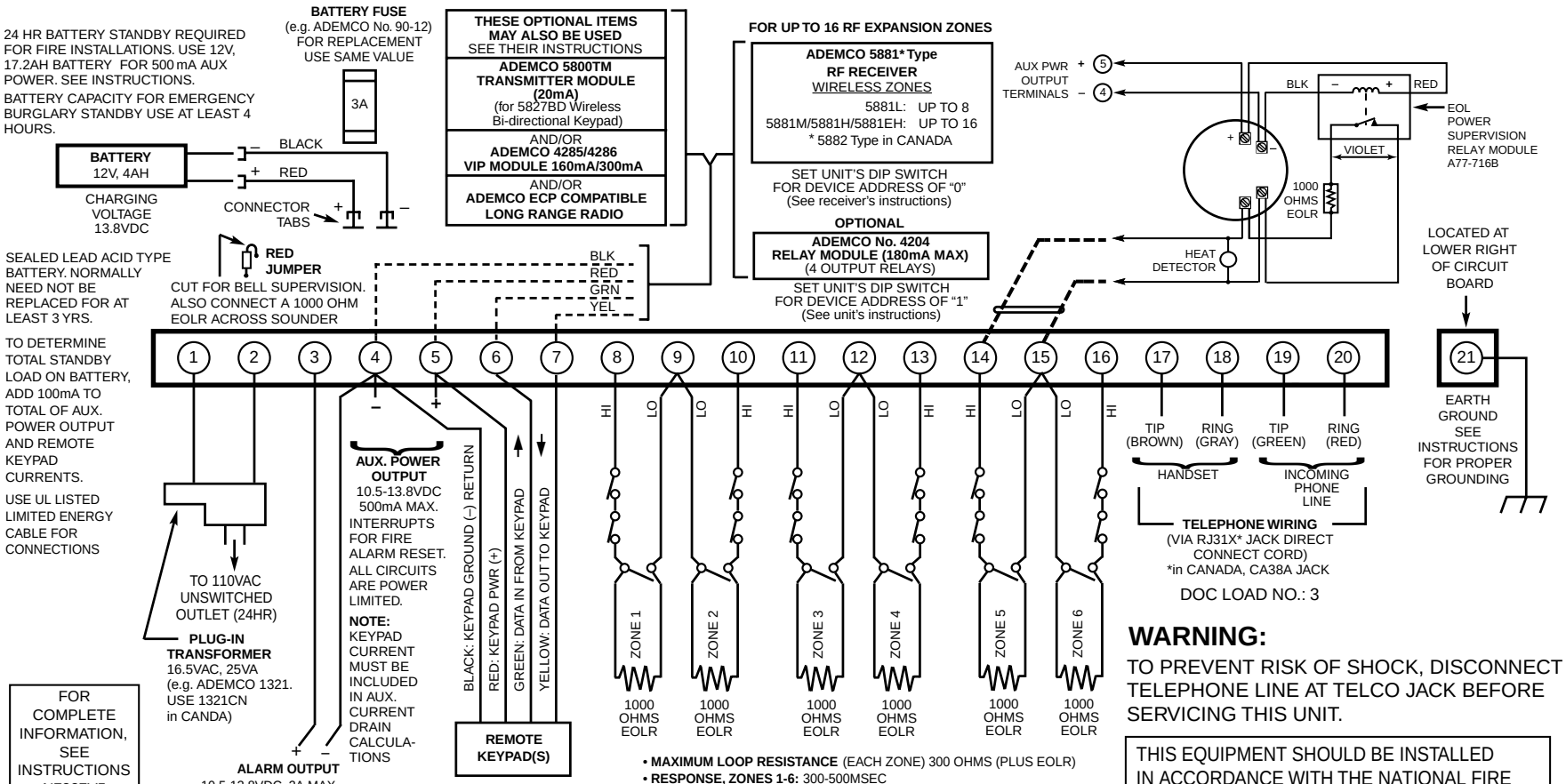
# VISTA–10SE SUMMARY OF CONNECTIONS DIAGRAM




DOC LOAD NO.: 3

## WARNING:

TO PREVENT RISK OF SHOCK, DISCONNECT TELEPHONE LINE AT TELCO JACK BEFORE SERVICING THIS UNIT.

THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 72, CHAPTER 2 (NATIONAL FIRE PROTECTION ASSOC., BATTERYMARCH PARK, QUINCY, MA 02269).
PRINTED INFORMATION DESCRIBING PROPER INSTALLATION, OPERATION, TESTING, MAINTENANCE, EVACUATION PLANNING AND REPAIR SERVICE IS TO BE PROVIDED WITH THIS EQUIPMENT.

**WARNING:** OWNER'S INSTRUCTION NOTICE NOT TO BE REMOVED. WEEKLY TESTING IS REQUIRED TO ENSURE PROPER OPERATION OF THIS SYSTEM.

V10SE-032-V0


**165 Eileen Way, Syosset, New York 11791**



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