ADEMCO

Security System

VIA-30PSE

PROGRAMMING GUIDE

(Includes Programming Form)

Programming Guide • Programming Guide • Programming Guide • Programming Guide

N7225PR Rev B 4/99

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ADEMCO VIA-30P$_{SE}$ PROGRAMMING FORM

FIELD **FUNCTION** **PROGRAMMED VALUES** [ ] = Default Value

SYSTEM SETUP (*20-*27)

***20** INSTALLER CODE ☐☐☐☐ Enter 4 digits, 0-9...[4] [1] [1] [1]

***21** QUICK ARM ENABLE † ☐ [0 = no]; 1 = yes

***22** RF SYSTEM TYPE ☐ [0 = none]; 1 = 5700 (4281); 2 = 5800 (5881)

***23** FORCED BYPASS FUNCTION † ☐ [0 = none]; 1 = bypass open zones

***24** RF HOUSE ID CODE [0][0] ☐☐ MUST enter (01-31) for 5700 System. Enter also for 5827 Keypad or 5827BD Keypad.

***25** WIRED EXPANSION/RELAY USED † ☐ [0 = none]; 1 = 4219; 2 = 4229; 3 = 4204

***26** VOICE MODULE ACCESS CODE ☐☐ 1st digit: Enter 1–9; 2nd digit: Enter only #+11 for '✳', #+12 for '#'. [0] in either position = disabled.

***27** OUTPUT TO LONG RANGE RADIO† ☐ [0 = no]; 1 = yes. If yes selected, dialer reports to PRIMARY No. (field *47) will also be sent via LRR. All dialer and LRR reports will be in Contact ID format (overriding field *46 selection).

ZONE SOUNDS AND TIMING (*28-*39)

***28** SINGLE ALARM SOUNDING/ZONE † ☐ [0 = no]; 1 = yes

***29** FIRE SOUNDER TIMEOUT † ☐ [0 = fire sounder timeout]; 1 = no fire sounder timeout

***30** ALARM BELL TIMEOUT † ☐ 0 = none; [1= 4 min]; 2 = 8 min; 3 = 12 min.; 4 = 16 min.

***38** ENTRY DELAY † ☐ 0 = 0 sec ; 1= 20 sec; [2 = 30 sec]; 3 = 45 sec; 4 = 60 sec; 5 = 90 sec
EXIT Delay = ENTRY Delay + 15 sec

***39** AUDIBLE EXIT WARNING † ☐ 0 = no; [1 = yes]

DIALER PROGRAMMING (*40-*50)

In fields *40, *41, *42, enter up to the number of digits shown. Do not fill unused spaces. Enter 0-9; #+11 for '✳'; #+12 for '#'; #+13 for a pause.

***40** PABX ACCESS CODE ☐☐☐☐ Enter up to 4 digits.
If fewer than 4 digits entered, exit by pressing ✳ (and press 41, if entering next field). To clear entries from field, press ✳40✳.

***41** PRIMARY PHONE No. ☐☐☐☐☐☐☐☐☐☐☐☐ Enter up to 12 digits.
If fewer than 12 digits entered, exit by pressing ✳ (and press 42, if entering next field). To clear entries from field, press ✳41✳.

***42** SECONDARY PHONE No. ☐☐☐☐☐☐☐☐☐☐☐☐ Enter up to 12 digits.
If fewer than 12 digits entered, exit by pressing ✳ (and press 43, if entering next field). To clear entries from field, press ✳42✳.

***43** SUBSCRIBER ACCT No. ☐☐☐☐ Enter 0-9; #+11 for B; #+12 for C; #+13 for D; #+14 for E; [#+15 for F]. Enter ✳ as 4th digit, if 3+1 dialer reporting is to be used.
If only 3 digits used, exit by pressing ✳(and press next field). To clear entries from field, press ✳43✳.

Examples: For Acct No. **1234**, enter:	1	2	3	4
For Acct No. **B234**, enter:	#+11	2	3	4
For Acct No. **123**, enter:	1	2	3	✳

***45** PHONE SYSTEM SELECT † ☐ If Cent. Sta. *IS NOT* on a WATS line: [0 = Pulse Dial]; 1 = Tone Dial
If Cent. Sta. *IS* on a WATS line: 2 = Pulse Dial ; 3 = Tone Dial

***46** REPORT FORMAT ☐ Also see field *27.

[0 = 3+1, 4+1 ADEMCO L/S STANDARD]
1 = 3+1, 4+1 RADIONICS STANDARD
2 = 4+2 ADEMCO L/S STANDARD
3 = 4+2 RADIONICS STANDARD
6 or undefined = 4+2 ADEMCO EXPRESS
7 = ADEMCO CONTACT ID REPORTING
8 = 3+1, 4+1 ADEMCO L/S EXPANDED
9 = 3+1, 4+1 RADIONICS EXPANDED

***47** SPLIT/DUAL REPORTING ☐ [0 = Disable (Backup report only)]

	TO PRIMARY PHONE No.	**TO SECONDARY PHONE No.**
1 =	Alarms, Restore, Cancel	Other Reports
2 =	All Reports except Open/Close, Test	Open/Close, Test
3 =	Alarms, Restore, Cancel	All Reports
4 =	All Reports except Open/Close, Test	All Reports
5 =	All Reports (*Dual Reporting*)	All Reports

	TO PRIMARY PHONE No.	**TO PAGING No.* (SECONDARY)**
6 =	All reports except Open/Close	** Alarms, Open/Close, Troubles
7 =	All reports	** Alarms, Troubles
8 =	All reports	** Alarms, Open/Close, Troubles
9 =	All reports except Open/Close	** Alarms, Open/Close for Users 5 – 25, Troubles

** A 10-digit code is sent to the pager consisting of a 4-digit Subscriber #, a 3-digit Event code, & a 3-digit User or Zone #. See Installation Instructions for an explanation of the 10-digit code.

* Can only be used if Primary reporting is Ademco Contact ID.

† Entry of a number other than one specified will give unpredictable results.

***48** 15 SEC DIALER DELAY (BURG) † ☐ [0 = no]; 1 = yes

***49** PERIODIC TEST MESSAGE † ☐ [0 = none]; 1 = 24 hrs; 2 = wkly; 3 = mnthly. Enter Test Code in field *64.

***50** SESCOA/RADIONICS SELECT † ☐ [0 = Radionics (0-9, B-F reporting)]; 1 = SESCOA (0-9 only reporting) Select 0 for all other formats.

***51** CONFIRMATION OF ARMING DING † ☐ [0 = no]; 1 = yes, but with RF arming only.

† Entry of a number other than one specified will give unpredictable results.

***56** ZONE ASSIGNMENT/ALARM REPORT CODES (See explanation on next page) ⟶

ZONE DESCRIPTION	ZONE No. (Zn)	ZONE TYPE (ZT)	ALARM RPT CODE (Hex) (RC)	INPUT DEVICE (In)	LEARNED RF INPUT (L)
ZONES ON CONTROL:					
Zones 1–4 are not present					
Wired Zone 5	05	09		HW	—
Wired Zone 6	06	**07**		HW	—
Keypad Panic (✳ &#, or B)	07	**06**		—	—
Duress	08	— —		—	—
Tamper	09	05		—	—
Keypad Panic (1 & ✳, or A)	95	**00**		—	—
Keypad Panic (3 & #, or C)	96	**00**		—	—
EXPANSION ZONES: 4219/4229 can add up to 8 wired expansion zones. With 4281L, up to 4 RF expansion zones also available; 4281M/5881L, up to 8; 5881M, up to 16; 4281H/5881H, up to 30 (minus, in the last case, the number of 4219/4229 zones used).				**ENTER FOR ↓5800 0NLY↓**	
4219/4229 Loop A, 1st Exp'n Zone					
B, 2nd					
C, 3rd					
D, 4th					
E, 5th					
F, 6th					
G, 7th					
H, 8th					
9th					
10th					
11th					
12th					
13th					
14th					
15th					
16th					
17th					
18th					
19th					
20th					
21st					
22nd					
23rd					
24th					
25th					
26th					
27th					
28th					
29th					
30th					

IN THE PREVIOUS PAGE'S ZONE ASSIGNMENT TABLE:

Zn = ZONE NUMBER Zone Nos. are from 05 to 63, 95, 96. Some are pre-assigned.
With Field *25 set for auxiliary wired loops (4219 or 4229), use Zone Nos. 10–17 for loops A-H.
With Field *22 set for RF (5700 or 5800), use Zone Nos. 18-63 if 4219/4229 is ALSO used, or 10-63 if 4219/4229 is NOT used.

ZT = ZONE TYPE

00 = Zone Not Used	05 = Trouble Day/Alarm Night	10 = Interior w/Delay
01 = Entry/Exit	06 = 24 Hr Silent	20 = Arm–Stay*
02 = *Do not use*	07 = 24 Hr Audible	21 = Arm–Away*
03 = Perimeter	08 = 24 Hr Aux	22 = Disarm*
04 = Interior Follower	09 = Fire	23 = No Alarm Response

DEFAULT VALUES

Zn:	05	06	07	95	96
ZT:	[09]	[07]	[06]	[00]	[00]

*** 20, 21, and 22 used for 5800 RF systems only.**

RC = ALARM REPORT CODE Two Hex Digits. For each Hex Digit, enter: 00–09 for 0–9, 10 for A, 11 for B, 12 for C, 13 for D, 14 for E, 15 for F.

If "00" is entered in the first pair of boxes, there will be no report for that zone.

For contact ID reporting, this is an enabling code only. Make any hex digit entry (other than "00") in the first pair of boxes. The second pair of boxes will be ignored.

In = LOOP INPUT DEVICE

HW: Hard Wire
AW: Aux Wire (4219 or 4229)
Enter 3 for RF: Supervised RF
Enter 4 for UR: Unsupervised RF
Enter 5 for BR: Button Type RF

These are automatically assigned, except "UR" and "BR" for 5800 RF.

L = LEARNED RF INPUT Used with self-learning (5800) RF Loop Input Devices. Record transmitter input number.

TO PROGRAM SYSTEM STATUS, & RESTORE REPORT CODES (*60-*75):

With a 3+1 or 4+1 Standard Format: Enter a code in the *first* 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* box will disable a report.

A "0" (*not* "#+10") in the *second* box 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 (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]

SYSTEM STATUS REPORT CODES (*60-*68)

***60** TROUBLE REPORT CODE [ ] [ ]

***61** BYPASS REPORT CODE [ ] [ ]

***62** AC LOSS REPORT CODE [ ] [ ]

***63** LOW BATTERY REPORT CODE [ ] [ ]

***64** TEST REPORT CODE [ ] [ ]

***65** OPEN/EXIT ALARM REPORT CODE [ ] / [ ]
2nd digit of OPEN REPORT is automatically sent as the user number if expanded or 4+2 reporting is selected.
2nd digit of EXIT ALARM REPORT is automatically sent as the 2nd digit of the zone alarm report code programmed in *56, if expanded or 4+2 reporting is selected.

***66** AWAY/STAY CLOSE REPORT CODE [ ] / [ ]
2nd digit of any CLOSE REPORT is automatically sent as the user number, if expanded or 4+2 reporting is selected.

***67** RF XMTR LOW BAT REPORT CODE [ ] [ ]

***68** CANCEL REPORT CODE [ ] [ ]

RESTORE REPORT CODES (*70-*75)

***70** ALARM RESTORE REPORT CODE [ ]
2nd digit is automatically sent as the 2nd digit of the zone alarm report code programmed in *56, if expanded or 4+2 reporting is selected.

***71** TROUBLE RESTORE REPORT CODE [ ] [ ]

***72** BYPASS RESTORE REPORT CODE [ ] [ ]

***73** AC RESTORE REPORT CODE [ ] [ ]

***74** LOW BAT RESTORE REPORT CODE [ ] [ ]

***75** RF XMTR LO BAT RST REPORT CODE [ ] [ ]

OUTPUT AND SYSTEM SETUP (*80-*92)

***80** OUTPUT RELAYS

***81** ZONE LISTS FOR OUTPUT RELAYS

Program only if Relays are to be used. See next page.

***82** CUSTOM ALPHA EDITING: (Also entered from field *56): *See procedure in instructions.*

***83** SEQUENTIAL MODE: Used for enrolling transmitters after all other zone information has been programmed.
(*See procedure in iInstallation Instructions)*

***91** OPTION SELECTION [0 = None]; 4 = AAV [ ]
"0" for UL installations

***92** REPORTS PER ARMED PERIOD [ ]
[0 = 10 max total alrm + alrm restore], 1 = unlimited

DOWNLOAD INFO (*94, *95)

***94** DOWNLOAD PHONE No.

[ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

Enter up to 12 digits: 0-9; #+11 for '✳'; #+12 for '#'; #+13 for a pause. Do not fill unused spaces. If fewer than 12 digits entered, exit field by pressing ✳ (and press 95, if entering next field).
To clear entries from field, press ✳94✳.

***95** RING DET 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)

***96** INITIALIZES DOWNLOAD ID , SUBSCRIBER ACCOUNT No. FOR INITIAL DOWNLOAD: No entry required.

***97** SETS ALL PROGRAM FIELDS TO DEFAULT VALUES: No entry required.

TO EXIT PROGRAM MODE (*98 or *99)

Press ✳98 or ✳99 if exiting programming, or next field number if continuing.

***98** EXITS PROGRAMMING MODE and *prevents* re-entry by: Installer Code + Code + 0.

***99** EXITS PROGRAMMING MODE and *allows* re-entry by: Installer Code + Code + 0 or by: Power-up + ✳ + #.

OUTPUT RELAYS WORKSHEET FOR FIELDS *80, and *81.

Applicable only if relays are to be used.

Fill in required data and follow detailed programming procedure
described in *PROGRAMMING DATA FIELDS* section of Installation Instructions

***80** OUTPUT RELAYS

Notes: **1.** Field *25 must be programmed for a 4229 (Relays 01 and 02) or a 4204 (Relays 01 to 04).

2. Tampers of contacts or expansion units cannot be used to operate relays.

		S T A R T ←either or both→			**S T O P** ←either or both→	
OUTPUT RELAY	**RELAY ACTION (A)**	**EVENT (EV)**	**ZONE LIST (ZL)**	**ZONE TYPE /SYST OP'N (ZT)**	***"RESTORE of"* ZONE LIST (ZL)**	**ZONE TYPE /SYST OP'N (ZT)**
01	☐	☐	☐	☐☐	☐	☐☐
02	☐	☐	☐	☐☐	☐	☐☐
03	☐	☐	☐	☐☐	☐	☐☐
04	☐	☐	☐	☐☐	☐	☐☐

Where: **A = RELAY ACTION** 0 = No Response; 1 = Close for 2 sec; 2 = Close and stay closed; 3 = Pulse on and off

EV = EVENT 0 = Not used; 1 = Alarm; 2 = Fault; 3 = Trouble

ZL = ZONE LIST 1,2, or 3 (from Field *81) or 0 = Not Used.

START ZONE LIST : Upon alarm, fault, or trouble of ANY zone on this list, relay action will START.

STOP *"RESTORE of"* ZONE LIST: Upon restore of ALL zones on this list, relay action will STOP. It need not be same list as used for START.

ZT = ZONE TYPE/SYSTEM OPERATION

Choices for Zone Types are:

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

Note: *Any* zone in "ZT" going into alarm, fault, or trouble will actuate relay. *Any* zone of that type that restores will stop relay action.

Choices for System Operation are:

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

**Or at Disarming, whichever occurs earlier.

***81** ZONE LISTS FOR OUTPUT RELAYS Record desired zone numbers. More or fewer boxes than shown may be needed, since any list may include *any* or *all* of system's zone numbers.

Zone List 1: Started or stopped by zone numbers (enter 00 to end entries).

☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐ ...etc.

Zone List 2: Started or stopped by zone numbers (enter 00 to end entries).

☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐ ...etc.

Zone List 3: Started or stopped by zone numbers (enter 00 to end entries).

☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐ ...etc.

MECHANICS OF PROGRAMMING

This section provides information on how programming is performed in this system. It will enable you to understand how to enter and exit the programming mode, and how to program the data fields and the user-friendly interactive menu modes (✶56, ✶80, ✶81, ✶82, ✶83). We therefore urge you to read and understand the following before proceeding with any programming.

The following program fields **must be** programmed (as required) before doing any zone programming.

✶22. RF SYSTEM TYPE

✶25. WIRED EXPANSION/RELAY USED

Explanations of these fields are found in *the DATA FIELD DESCRIPTIONS* section in this manual.

General Programming Information

Characteristics for each installation are stored in non-removable, electrically erasable, non-volatile EEROM memory. These must be programmed for the particular installation to establish its specific alarm and reporting features.

It is possible to program the system at any time, even at the installer's premises prior to the actual installation. Simply apply power temporarily to the control and then program the unit as desired.

Note: **You cannot enter the programming mode unless the system is disarmed.**

There are two programming modes: data field programming and interactive menu mode programming. Data field programming is used for setting various system options and menu mode programming is used for programming zone information, programming relay outputs, and for entering 5800 series transmitter serial numbers.

To program the system, you must use a 5137AD or 6139 2-line Alpha keypad connected to the keypad terminals on the control (4, 5, 6, & 7). The Alpha keypad need not necessarily remain in the system after programming.

Programming can also be performed remotely from the installer's office/home, using an IBM personal computer, a modem, and *Windows* downloading software. See the *REMOTE PROGRAMMING AND CONTROL (DOWNLOADING)* section in this manual.

Entering the Program Mode

You may use one of the following methods:

(a) Press both the **[✶]** and **[#]** keys at the same time **within 50 seconds after power is applied to the Control,** or

(b) After power up, enter the INSTALLER code **(4 1 1 1) + 8 + 0.**

Method (b) is disabled if you exit the program mode using ✶98 instead of ✶99. See "Exiting the Program Mode" paragraph later in this section.

If a different INSTALLER code is subsequently programmed, use it instead of 4111 to gain access to the Programming mode.

Following entry into the program mode, data field ✶20 will be displayed (this is the first field in the system). The system will now accept entries for field ✶20. You can then proceed with the required programming (see the next paragraph "Programminng a Data Field").

Programming a Data Field

1. Press **[✶]** plus **Field No.** (for example, ✶21), then make the desired entry.
2. When you have completely programmed a data field, the keypad will "beep" three times and then automatically display the next data field in sequence. To go to a different field, press **[✶]** plus the desired field No.
3. If the number of digits that you need to enter in a data field is less than the maximum digits available (for example, the phone number field), enter the desired data, then press ✶ and the next data field number to be programmed.
4. If you try to enter a non-existent field, an Alpha keypad will display **NOT USED** and **EE (**Entry Error). Simply key [✶] again plus a valid field number.

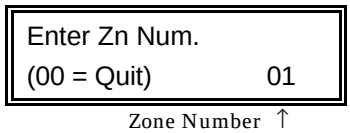
Reviewing a Data Field/Erasing an Entry in a Data Field

Press **[#]** plus **Field No.** Data will be displayed for that field number. **No changes will be accepted in this mode.**

To delete an entry in a field, press **[✶]** plus **Field No.** + **[✶]. (**Applies only to fields ✶40 – ✶42, and ✶94.)

Interactive Menu Mode Programming (✶56, ✶80, ✶81, ✶82 and ✶83)

Typical prompt displayed during interactive menu mode programming



Press **[✶]** plus **menu mode No.** (for example, ✶56). The Alpha keypad will display the first of a series of prompts requesting entries.

A detailed procedure (with displays of prompts) is provided in those sections in the Installation Instructions where programming in the menu mode is to be performed.

Menu Mode	Used To Program
✶56 Zone Programming	Zone characteristics, report codes, alpha descriptors and serial numbers for 5800 transmitters
✶80 Relay Programming	4204 Relay modules
✶81 Zone List Programming	Zone Lists for 4204 relay activation
✶82 Alpha Programming	Zone alpha descriptors
✶83 Sequential Enrolling	5800 series transmitter serial numbers

Loading Factory Defaults

To load the factory defaults, enter the programming mode, press ✶97, then exit the programming mode.

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

✶96 resets the Subscriber Account number and CSID in preparation for an initial download.

Programming System Setup Fields

*IMPORTANT: The following program fields **must be** programmed before doing any zone programming.*

✶22 RF SYSTEM TYPE (Default is **0)**.
Enter "1" if 5700 RF system type is being used; enter "2" if a 5800 RF system type is being used; enter "0" if no RF is being used.

✶25 WIRED EXPANSION/RELAY USED (Default is **0)**.
Enter "1" if a 4219 Expansion Module is being used, "2" if a 4229 Expansion/Relay Module is being used, "3" if a 4204 Relay Module is being used, or "0" if a relay is not being used.

Exiting the Programming Mode

✶98 EXITS PROGRAMMING MODE and *prevents* re-entry by **Installer Code** + **[Code]** + **[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** [#] both at once, within 50 seconds of powering up.

✶99 EXITS PROGRAMMING MODE and *allows* re-entry by:
Installer Code + **[Code]** + **[0]** or by:
Pressing [✶] **and** [#] at the same time, within 50 seconds of powering up the system.

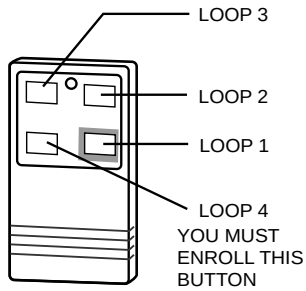
5800 Series Transmitter Input Loop Identification

- All of the transmitters illustrated below have one or more unique factory assigned input (loop) ID codes. *Each of the inputs requires its own programming zone* (e.g., a 5804's four inputs require four programming zones).
- Transmitter inputs entered as:

  "**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.

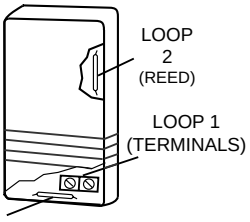
  "UR" (Unsupervised RF) Type send all the signals that the "RF" Type does, but the control does not supervise the check-in signals. The transmitter may, therefore, be carried off-premises.

  "**BR**" **(Unsupervised Button RF) Type** only send fault signals. Restore or check-in signals are not sent, but low battery signals are sent when a button is pressed. The transmitter may be carried off-premises. The transmitter may be carried off-premises.

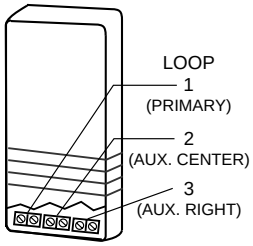


5801
ENROLL AS "UR" OR "RF"

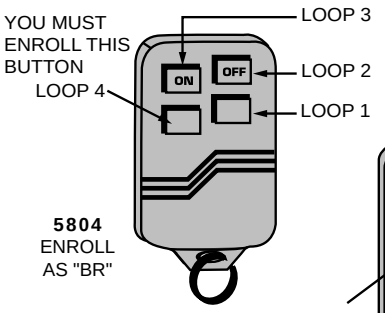
5802MN
ENROLL AS "UR" OR "RF"



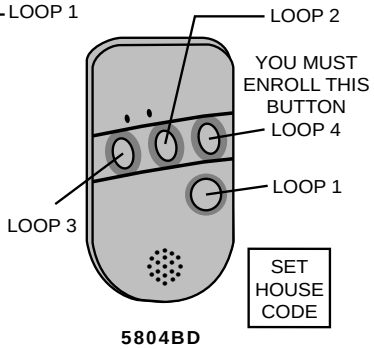
5816MN
ENROLL AS "RF"



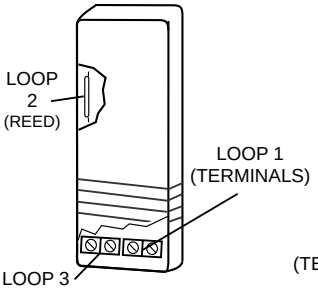
5817
ENROLL AS "RF"



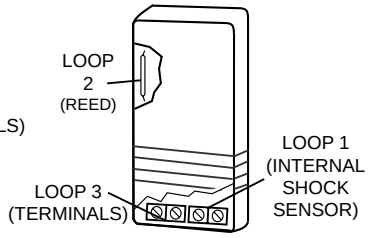
5804
ENROLL AS "BR"



5804BD
ENROLL AS "BR"



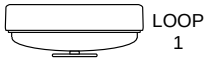
5819
ENROLL AS "RF"



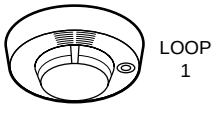
5819S (WHS & BRS)
ENROLL AS "RF"

5827
SET HOUSE CODE

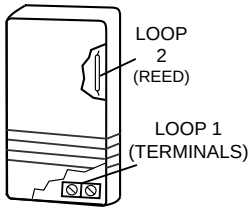
5827BD
SET HOUSE CODE



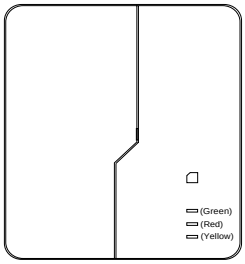
5809
ENROLL AS "RF"



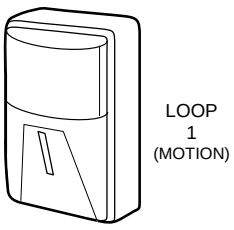
5808
ENROLL AS "RF"



5816
ENROLL AS "RF"



5850 (GBD)
ENROLL AS "RF"



5890
ENROLL AS "RF"

ALPHA VOCABULARY LIST
(For Entering Zone Descriptors)

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

000 *(Word Space)*

A

- **001 AIR**
- **002 ALARM**

004 ALLEY
005 AMBUSH

- **006 AREA**
- **007 APARTMENT**
- **009 ATTIC**

010 AUDIO

B

- **012 BABY**
- **013 BACK**
- **014 BAR**
- **016 BASEMENT**
- **017 BATHROOM**
- **018 BED**
- **019 BEDROOM**

020 BELL

- **021 BLOWER**
- **022 BOILER**

023 BOTTOM
025 BREAK

- **026 BUILDING**

C

028 CABINET

- **029 CALL**

030 CAMERA
031 CAR
033 CASH
034 CCTV
035 CEILING
036 CELLAR

- **037 CENTRAL**

038 CIRCUIT

- **040 CLOSED**
- **046 COMPUTER**

047 CONTACT

D

- **048 DAUGHTERS**

049 DELAYED

- **050 DEN**

051 DESK

- **052 DETECTOR**
- **053 DINING**

054 DISCRIMINATOR
055 DISPLAY

- **057 DOOR**
- **059 DOWN**
- **060 DOWNSTAIRS**

061 DRAWER

- **062 DRIVEWAY**
- **064 DUCT**

E

- **065 EAST**

066 ELECTRIC
067 EMERGENCY
068 ENTRY

- **069 EQUIPMENT**
- **071 EXIT**

072 EXTERIOR

F

- **073 FACTORY**

075 FAMILY

- **076 FATHERS**
- **077 FENCE**
- **079 FIRE**
- **080 FLOOR**

081 FLOW
082 FOIL

- **083 FOYER**

084 FREEZER

- **085 FRONT**

G

- **089 GARAGE**
- **090 GAS**

091 GATE

- **092 GLASS**

093 GUEST
094 GUN

H

- **095 HALL**
- **096 HEAT**

098 HOLDUP
099 HOUSE
100 INFRARED

- **101 INSIDE**

102 INTERIOR
103 INTRUSION

J

104 JEWELRY

K

- **105 KITCHEN**

L

- **106 LAUNDRY**
- **107 LEFT**

108 LEVEL

- **109 LIBRARY**
- **110 LIGHT**

111 LINE

- **113 LIVING**
- **114 LOADING**

115 LOCK
116 LOOP
117 LOW

- **118 LOWER**

M

- **119 MACHINE**

121 MAIDS
122 MAIN

- **123 MASTER**
- **125 MEDICAL**

126 MEDICINE
128 MONEY
129 MONITOR

- **130 MOTHERS**
- **131 MOTION**

132 MOTOR

N

- **134 NORTH**

135 NURSERY

O

- **136 OFFICE**
- **138 OPEN**

139 OPENING

- **140 OUTSIDE**

142 OVERHEAD

P

143 PAINTING

- **144 PANIC**

145 PASSIVE

- **146 PATIO**

147 PERIMETER

- **148 PHONE**

150 POINT
151 POLICE
152 POOL

- **153 POWER**

R

155 RADIO

- **156 REAR**

R

155 RADIO

- **156 REAR**

157 RECREATION
159 REFRIGERATION
160 RF

- **161 RIGHT**
- **162 ROOM**

163 ROOF

S

164 SAFE
165 SCREEN
166 SENSOR

- **167 SERVICE**
- **168 SHED**

169 SHOCK

- **170 SHOP**

171 SHORT

- **173 SIDE**

174 SKYLIGHT
175 SLIDING

- **176 SMOKE**
- **178 SONS**
- **179 SOUTH**

180 SPRINKLER

- **182 STATION**

184 STORE

- **185 STORAGE**

186 STORY
190 SUPERVISED
191 SUPERVISION
192 SWIMMING
193 SWITCH

T

194 TAMPER
196 TELCO
197 TELEPHONE

- **199 TEMPERATURE**

200 THERMOSTAT

- **201 TOOL**

202 TRANSMITTER

U

- **205 UP**
- **206 UPPER**
- **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 Phone Module. If using a Phone module, and words other than these are selected for Alpha descriptors, the module will not provide annunciation of those words.

CHARACTER (ASCII) CHART
(For Adding Custom Words)

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

ZONE RESPONSE TYPE DEFINITIONS

Type 00
Zone Not Used

Program a zone with this zone type if the zone is not used.

Type 01
Entry/Exit Burglary

This zone type provides entry delay whenever the zone is faulted if the control is armed in the AWAY or STAY modes. When the panel is armed in the Instant or Maximum modes, no entry delay is provided. Exit delay begins whenever the control is armed, regardless of the arming mode selected. These delays are programmable. This zone type is usually assigned to sensors or contacts on doors through which primary entry and exit will take place.

Type 02

Not used in this system.

Type 03
Perimeter Burglary

This zone type gives an instant alarm if the zone is faulted when the panel is armed in the AWAY, STAY, INSTANT or MAXIMUM modes. This zone type is usually assigned to all sensors or contacts on exterior doors and windows.

Type 04
Interior, Follower

This zone type is active when the panel is armed in the AWAY or MAXIMUM modes. Entry delay (using the programmed entry time) results if the panel is armed in the AWAY mode and the entry/exit zone is faulted first. Otherwise this zone type gives an instant alarm. *Exit* delay is present for *any* arming mode. This zone type is usually assigned to a zone covering an area such as a foyer, lobby, or hallway through which one must pass (upon entry, after faulting the entry/exit zone) to reach the keypad to disarm the system. Since this zone type is designed to provide an instant alarm if the entry/exit zone is not violated first, it will protect an area in the event an intruder hides on the premises prior to the system being armed, or gains access to the premises through an unprotected area. **This zone type is bypassed automatically when the panel is armed STAY or INSTANT**.

Type 05
Trouble by Day/
Alarm by Night

This zone type will give an instant alarm if faulted when armed in the AWAY, STAY, INSTANT or MAXIMUM (night) modes. During the disarmed state (day), the system will provide a latched trouble sounding from the keypad (and a central station report, if desired). This zone type is usually assigned to a zone which contains a foil-protected door or window (such as in a store), or to a zone covering a "sensitive" area such as a stock room, drug supply room, etc. This zone type can also be used on a sensor or contact in an area where immediate notification of an entry is desired.

Type 06
24-hour Silent Alarm

This zone type sends a report to the Central Station but provides no keypad display or sounding. This zone type is usually assigned to a zone containing an Emergency button.

Type 07
24-hour Audible Alarm

This zone type sends a report to the Central Station, and provides a rapid beeping sound at the keypad, and an audible external alarm. This zone type is usually assigned to a zone that has an Emergency button.

Type 08
24-hour
Auxiliary Alarm

This zone type sends a report to the Central Station and provides a rapid beeping sound at the keypad. **(No bell output is provided).** This zone type is usually assigned to a zone containing a button for use in personal emergencies, or to a zone containing monitoring devices such as water or temperature sensors, etc.

Type 09
Supervised Fire

This zone type provides a fire alarm on short circuit and a trouble condition on open circuit. The bell output will pulse when this zone type is faulted. This zone type is always active and cannot be bypassed. This zone type can be assigned to control panel wired zone 5 and to certain wireless zones.

Type 10
Interior w/Delay

This zone type gives *entry* delay (using the programmed entry time), if tripped when the panel is armed in the Away mode, regardless of whether or not an entry/exit delay zone was tripped first. This zone type is also active during MAXIMUM mode, but *no* entry delay is provided (an alarm occurs immediately if the zone is tripped). *Exit* delay is present for *any* arming mode. **This zone type is bypassed automatically when the panel is armed Stay or Instant .**

Type 20
Arm–Stay

This is a special-purpose zone type used with 5800 series wireless pushbutton units which will result in arming the system in the STAY mode when the zone is activated. Pushbutton units send zone number as a user number to central station when arming or disarming.

Type 21
Arm–Away

This is a special-purpose zone type used with 5800 series wireless pushbutton units which will result in arming the system in the AWAY mode when the zone is activated. Pushbutton units send zone number as a user number to central station when arming or disarming.

Type 22
Disarm

This is a special-purpose zone type used with 5800 series wireless pushbutton which will result in disarming the system when the zone is activated.

Type 23
No Alarm Response

This is a special-purpose zone type that can be used on a zone when an output relay action is desired, but with no accompanying alarm (e.g., lobby door access).

By using a 4281/5881 type RF Receiver and the appropriate 5700/5800 series transmitters, all of the zone types listed are available for the wireless portion of the system.

DATA FIELD DESCRIPTIONS

The blank programming form in this manual should be used to record the data for this installation.

The following is a list of all data fields in this control (presented in numerical order). This list provides an explanation of each data field, and will serve as a reference for all fields in the system. Defaults (where applicable) are indicated in the text for each field in this list.

✶20 INSTALLER CODE Default is **4-1-1-1**.

The Installer code is used to program the system, and to assign the 4-digit Master security code **in the normal operation mode**, via the keypad See "Master Code" in the *SYSTEM OPERATION* section in the Installation Instructions for the procedure.

Enter 4 digits, 0–9.

✶21 QUICK ARM ENABLE *(1-Digit Entry)* Default is **0**.

If enabled, the [#] key can be used instead of the security code when **arming** the system. Enter 0 for disabled or 1 for enabled. **This feature will function only if the Master Code is programmed.**

✶22 RF SYSTEM TYPE *(1-Digit Entry)*

Default is **0** (none).

This option is enabled if a wireless receiver is used.

Enter 1 for 4281 series RF receivers, 2 for 5881* series RF receivers. Enter 0 if no receiver is being used.

* 5882 series RF receivers in Canada.

✶23 FORCED BYPASS FUNCTION *(1-Digit Entry)* Default is **0**.

This feature allows all faulted zones to be bypassed automatically.
All zones that are bypassed by this function will be displayed after the bypass is initiated:

0 = No forced bypass; 1 = Allows automatic bypass of all open zones.

✶24 RF HOUSE ID CODE *(2-Digit Entry)* Default is **00** .

The House ID identifies receivers and wireless keypads in a 5700 type system, and must be assigned (01–31).

If a 5827 or 5827BD Wireless keypad is to be used in a 5800 RF system, a House ID code MUST also be entered (01–31), and the keypad should be set to the same ID. In a 5800 system with no 5827 or 5827BD wireless keypad, enter 00 (no House ID).

✶25 WIRED EXPANSION/ RELAY USED *(1-Digit Entry)* Default is **0**.

Enter "1" if a 4219 Expansion Module is being used, "2" if a 4229 Expansion/Relay Module is being used, "3" if a 4204 Relay Module is being used, or "0" if a relay is not being used.

✶26 VOICE (PHONE) MODULE ACCESS CODE *(2-Digit Entry)* Default is **00**.

The use of a 4285 Phone Module requires a 2-digit code.

Enter a 2-digit phone access code as follows: For first digit, enter any digit from 1 to 9; for second digit, enter # +11 for "✶", or # +12 for "#".

Example: If the desired access code is 7✶ , **7** is the first entry, and **# + 11** (for ✶) is the second entry.

"00" = Phone Module disabled. **Note:** A "0" in *either* digit will disable the 4285 Phone Module.

✶27 OUTPUT TO LONG RANGE RADIO *(1-Digit Entry)* Default is **0**.

0= no, 1 = yes. If output to LRR is selected here (1), all messages that are programmed to go to the primary telephone line receiver will also be sent to the radio (e.g., 7720 PLUS or 7820). These messages will always be in Contact ID format (overriding the selection in field ✶46). The data line is supervised ,as well as certain functions in the radio.

If communication is lost or a trouble develops, a message will be attempted to be sent via both radio and telephone to the central station.

Normal trouble restore report (✶71) is sent on restore of the condition.

Note: The Radio should be programmed for device address 3 on the keypad lines.

ZONE SOUNDS AND TIMING (✶28–✶39)

✶28 SINGLE ALARM SOUNDING PER ZONE (Per Armed Period) *(1-Digit Entry)* Default is **0**.
This field limits external alarm sounding to once per arming period for a given zone. Enter 1 for yes; 0 for no.

UL For UL installations, enter 0 for unlimited Alarm Soundings

✶29 FIRE SOUNDER TIMEOUT *(1-Digit Entry)* Default is **0**.
This field determines whether the external sounder will shut off after time allotted, or continue until manually turned off. Enter 0 for sounder timeout, or 1 for no timeout. Default is **0**.

✶30 ALARM BELL TIMEOUT *(1-Digit Entry)* Default is **1**.
This field determines whether the external sounder will shut off after time allotted, or continue until manually turned off. Enter as follows:
0 = No timeout; 1 = 4 min (default); 2 = 8 min; 3 = 12 min; 4 = 16 min.

✶38 ENTRY DELAY *(1-Digit Entry)* Default is **2**.
System will wait the time allotted before sounding alarm upon entering. May be selected individually
0 = 0 seconds; 1 = 20 seconds; 2 = 30 seconds; 3 = 45 seconds;
4 = 60 seconds; 5 = 90 seconds.

(EXIT delay = Entry delay plus 15 seconds).

UL For UL installations, entry delay can be no greater than 45 seconds.

✶39 AUDIBLE EXIT WARNING *(1-Digit Entry)* Default is **1**.
If enabled, this field provides exit warning sound when armed AWAY or MAXIMUM.
Warning sound consists of slow continuous beeps until last 5 seconds, when it changes to fast beeps. The warning sound will end at the termination of Exit time.
0 = no; 1 = yes.

DIALER PROGRAMMING (✶40–✶50)

✶40 PABX ACCESS CODE (See Box at Left)
Enter up to 4 digits if PABX is needed to access an outside line. If fewer than 4 digits are needed to be entered, exit by pressing ✶ and next field number (e.g., 41). To clear entries from field, press ✶40✶.

Fields ✶40, ✶41, ✶42:
Enter up to the number of digits shown. Do not fill unused spaces.
Enter 0–9,
+ 11 for '✶'
+ 12 for '#'
+ 13 for a pause (2.5 secs)

✶41 PRIMARY PHONE No. (See Box at Left)
Enter up to 12 digits. If fewer than 12 digits entered, exit by pressing ✶ and next field number (e.g., 42). To clear entries from field, press ✶41✶.

Note: Back-up reporting (8 calls are made to the secondary phone number if no kiss-off is received after 8 attempts to primary number) is automatic only if there is a secondary phone number (field ✶42).

✶42 SECONDARY PHONE No. (See Box at Left)
Enter up to 12 digits. If fewer than 12 digits entered, exit by pressing ✶ and next field number (e.g., 43). To clear entries from field, press ✶42✶. See *Note* in field ✶41 also.

Note: If you wish to send a report to a pager, see field ✶47 on next page .

✶43 SUBSCRIBER ACCOUNT. No. *(Enter up to 4 digits).*
Enter digits 0–9, #+11=B, #+12=C, #+13=D, #+14=E, or #+15=F. Enter ✶ as the fourth digit if a 3 digit account no. (for 3+1 dialer reporting format) is used. Enter 0 as the first digit of a 4-digit account no. for nos. 0000–0999. End field by pressing ✶ (and press next field) if only 3 digits are used.
This field is also used as the Long Range Radio Subscriber Account #.

✶45 PHONE SYSTEM SELECT *(1-Digit Entry)* Default is **0**.

If Central Station Receiver *is not* on WATS line:
0 = Pulse Dial 1 = Tone Dial

If Central Station Receiver *is* on WATS line:
2 = Pulse Dial 3 = Tone Dial

✶46 REPORT FORMAT *(1-Digit Entry)* Default is **0**.

Determine which format is to be used to report to the central station. Enter 1 digit (0–9).

For an explanation of these formats, see the *SYSTEM COMMUNICATION* section in the Installation Instructions.

0 = 3+1; 4+1 ADEMCO Lo Speed Standard (this is the default)
1 = 3+1; 4+1 Radionics Standard
2 = 4+2 ADEMCO Lo Speed Standard
3 = 4+2 Radionics Standard
6 = 4+2 ADEMCO Express
7 = ADEMCO Contact ID Reporting
8 = 3+1; 4+1 ADEMCO Lo Speed Expanded
9 = 3+1; 4+1 Radionics Expanded

(Enter ✶ as the 4th digit of ✶43 if 3+1 dialer reporting is to be used.)

Note: The maximum number of alarm and alarm restore reports during one armed period is determined by field ✶92.

See field ✶27, which may override this field's selection.

✶47 SPLIT/DUAL REPORTING *(1-Digit Entry)* Default is **0**.

Enter 0 to disable (Backup report only).

Entries 1 through 9 can be made, as indicated in the table below. Entries 6 through 9 will send a report to a pager (in addition to the selected primary phone number), *but you must enter the pager number as the secondary phone number in field ✶42.*

	TO PRIMARY PHONE #	**TO SECONDARY PHONE #**
1 =	Alarms, Restore, Cancel	Other Reports
2 =	All except Open/Close, Test	Open/Close, Test
3 =	Alarms, Restore, Cancel	All reports
4 =	All except Open/Close, Test	All reports
5 =	All reports	All reports
	TO PRIMARY PHONE #	**TO PAGING No.* (Secondary)**
6 =	All reports except Open/Close	Alarms/Open/Close, Troubles
7 =	All reports	Alarms, Troubles
8 =	All reports	Alarms/Open/Close, Troubles
9 =	All reports except Open/Close	Alarms, Open/Close for users #5–25‡ Troubles

‡ Will report only Users 5–9. If using 5800 series wireless button-type devices, the zone number of the arm or disarm button (10–25) will be sent as the user number.

* Can only be used if the Primary reporting format is Ademco Contact ID. If reporting to a Pager, choose from 6, 7, 8, or 9, as desired.

Entries 6 through 9 will send a report to a pager (in addition to the selected primary phone number), but you must enter the pager number as the secondary phone number in field ✶42.

A 10-digit code is sent to the pager which will take the following format:

† 4-digit Subscriber No. (as entered in field ✶43) →SSSS–EEE–NNN ←3-digit User or Zone No.

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.)

† 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.**

(Continued)

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.

✶48 15-SECOND DIALER DELAY (BURGLARY) Default is **0**.
Single-digit entry. If selected, will provide 15-second delay of burglary alarm report to the central station. Allows time for subscriber to avoid a false alarm transmission.
0 for no delay, or 1 for 15-second delay.

✶49 PERIODIC TEST REPORT *(1-Digit Entry)* Default is **0**.
Select the desired test report interval.
0 = none; 1 = 24 hours; 2 = weekly; 3 = 30 days.
Test Report code entered in field ✶64 is sent; reports with Subscriber No.

UL For UL installations, 24 hours (1) must be selected

✶50 SESCOA/RADIONICS SELECT *(1-Digit Entry)* Default is **0**.
0 = Radionics (0–9, B–F reporting)
1 = SESCOA (0–9 only reporting)
Select 0 for all other formats.

✶51 CONFIRMATION OF ARMING DING *(1-Digit Entry)* Default is **0**.
Enter 1 to enable 1/2 second external alarm sounding "ding" when closing report goes in, or at the end of exit delay. Enter 2 for alarm sounding ding with RF arming (this will work with either a button RF unit or a 5827.
0 disables the "ding".

✶56 ZONE ASSIGNMENT/ALARM REPORT CODES

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 ADD/DELETE 5800 RF INPUT field in ✶83, *but only after all other zone programming has been completed in ✶56).*

Alpha descriptors can also be entered for zones in ✶56 (alternatively, Alpha descriptors can be entered in menu mode ✶82).

Refer to the *BASIC HARDWIRED ZONES 5 and 6* section in the Installation Instructions for detailed hardwired zone programming, and the *WIRELESS (RF) ZONE EXPANSION (5700 & 5800 RF SYSTEMS)* section for detailed wireless zone expansion programming, and the *WIRED ZONE EXPANSION (4219 & 4229)* section for detailed wired zone expansion programming.

Refer also to the zone assignment table for ✶56 in the programming form in this manual.

TO PROGRAM SYSTEM STATUS AND RESTORE 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

SYSTEM STATUS REPORT CODES (✶60 –✶68)

✶60 **TROUBLE REPORT CODE** (See box above.) *(2-Digit Entry)*

✶61 **BYPASS REPORT CODE** (See box above.) *(2-Digit Entry)*

✶62 **AC LOSS REPORT CODE** (See box above.) *(2-Digit Entry)*
Reports with Subscriber No. Timing of this report is random with up to a 48-minute delay. The Restore report has a random delay of up to about 12 minutes. If AC restores before the report goes out, there is no AC restore report.

✶63 **LOW BAT REPORT CODE** (See box above.) *(2-Digit Entry)*
Reports with Subscriber No.

✶64 **TEST REPORT CODE** (See box above.) *(2-Digit Entry)*
Periodic Reports with Subscriber No.

✶65 **OPEN/EXIT ALARM REPORT CODE, 1st DIGITS** *(2-Digit Entry)*
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 #.

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.

✶66 AWAY/STAY CLOSE REPORT CODE *(2-Digit Entry)*
(See box on previous page.)
To enable, enter a code (or 0 to disable) in either or both boxes.
For expanded or 4+2 reporting, 2nd digit for each = User # .

✶67 RF XMTR. LOW BATTERY REPORT CODE *(2-Digit Entry)*
(See box on previous page).

✶68 CANCEL REPORT CODE *(2-Digit Entry)*
(See box on previous page.)

RESTORE REPORT CODES (✶70 – ✶75)

✶70 ALARM RESTORE REPORT CODE
(See box on previous page). For expanded or 4+2 reporting, a 2nd digit is automatically sent, and is the same as the 2nd digit of the zone alarm report code programmed in field ✶56.

✶71 TROUBLE RESTORE REPORT CODE *(2-Digit Entry)*
(See box on previous page). This is sent when a trouble in a zone is restored.

✶72 BYPASS RESTORE REPORT CODE *(2-Digit Entry)*
(See box on previous page) . This is sent when a zone that has been bypassed is un-bypassed.

✶73 AC RESTORE REPORT CODE *(2-Digit Entry)*
(See box on previous page) . Reports with Subscriber No.

✶74 LOW BAT RESTORE REPORT CODE *(2-Digit Entry)*
(See box on previous page). Reports with Subscriber No.

✶75 RF XMTR. LOW BATTERY RESTORE CODE *(2-Digit Entry)*
(See box on previous page). This is sent when a transmitter that previously sent in a low battery message has sent a message indicating it no longer has a low battery condition.

✶80 OUTPUT RELAYS
This is an interactive menu mode that is applicable only if 4229 or 4204 relays are to be used ("2 or 3" in field ✶25). See the *RELAY OUTPUTS* section in the Installation Instructions for a detailed programming procedure. Also refer to the OUTPUT RELAYS table for field ✶80 in the Programming Form in this manual.

✶81 ZONE LISTS FOR OUTPUT DEVICES
This is an interactive menu mode that is applicable only if field ✶25 is programmed for a 4204 or a 4229 relay. Refer to *the RELAY OUTPUTS* section in the Installation Instructions for a detailed programming procedure. Also refer to the ZONE LISTS FOR OUTPUT RELAYS table for ✶81 in the Programming Form in this manual.

✶82 CUSTOM ALPHA EDITING
See *the ALPHA DESCRIPTION PROGRAMMING* section in the Installation Instructions for procedure.

✶83 SEQUENTIAL MODE
May be used to enroll transmitters in a 5800 RF system **after all other zone information has been programmed in ✶56.** See the Installation Instructions for a detailed programming procedure.

✶91 OPTION SELECTION *(1-Digit Entry)*
Enter "4" if an Audio Alarm Verification (AAV) unit is connected in the system (1–3 not used); enter "0" if an AAV unit is not being used.
For UL installations, the AAV option must be disabled (0).
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 take place.

✶92 NUMBER OF REPORTS IN ARMED PERIOD Default is **0**.
(1-Digit Entry). This option can be used to limit the number of messages (alarm & alarm restore reports) sent to the central station in an armed period. "0" limits reports to a total of 10; "1" allows an unlimited number of reports.

UL	"1" must be selected for UL installations

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
Enter number of rings before control picks up phone line (or 0 or 15). Refer to the chart below and program this field accordingly.

Phone 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 Phone Module
Yes be turned	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 Phone Module can still accessed if the answering machine is 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	Yes	No	Enter "0".
No	No	Yes	Enter 1–14.
No	Yes	Yes	Enter 15. See Important Note below.

Important Note: If "15" is entered in field ✶95 to bypass an answering machine, and a 4285 Phone 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 Phone Module will now seize the line, and 2 long tones will heard, followed by the usual voice prompt for the 2-digit phone access code. If this procedure is not followed, Phone Module operation will not be possible.

✶96 INITIALIZE DOWNLOAD ID AND SUBSCRIBER ACCT. No. FOR DOWNLOADING
(No data entry required; press ✶96)

✶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 and *prevents* re-entry by :
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 depress [✶] **and** [#] both at once, within 50 seconds of powering up.

✶99 EXITS PROGRAMMING MODE and *allows* re-entry 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.)**.**

REMOTE PROGRAMMING AND CONTROL (DOWNLOADING)

General Information

The VIA–30PSE can be remotely programmed from an IBM compatible Personal Computer (PC), a HAYES Modem, and either Ademco's v-Link® downloading software (Rev. 4 or higher), or Ademco's *Compass* Windows downloading software (as specified below).

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 preprogrammed 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:

- VIA–30PSE and keypad.

At the installer's office/home:

- An IBM PC compatible computer.
- *Either* a HAYES brand SMARTMODEM 1200 [Level 1.2 or higher external or Level 1.1 or higher (with 4 position DIP switch) internal style],*or* a HAYES brand Optima 24 Plus FAX96 Modem.
- Ademco's v-Link® downloading software (Rev. 4 or higher), or 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 (non-payment of monitoring fees in an owned system).

- Shut Down all Security System Functions (non-payment for a leased system).
- Inhibit Local Keypad Programming (prevents account takeover).
- Read: Arming Status, AC Power Status, Lists of Faulted Zones, Bypassed Zones, Zones Currently in Alarm, Zones Currently in Trouble, and RF Sensors with Low Battery Conditions.

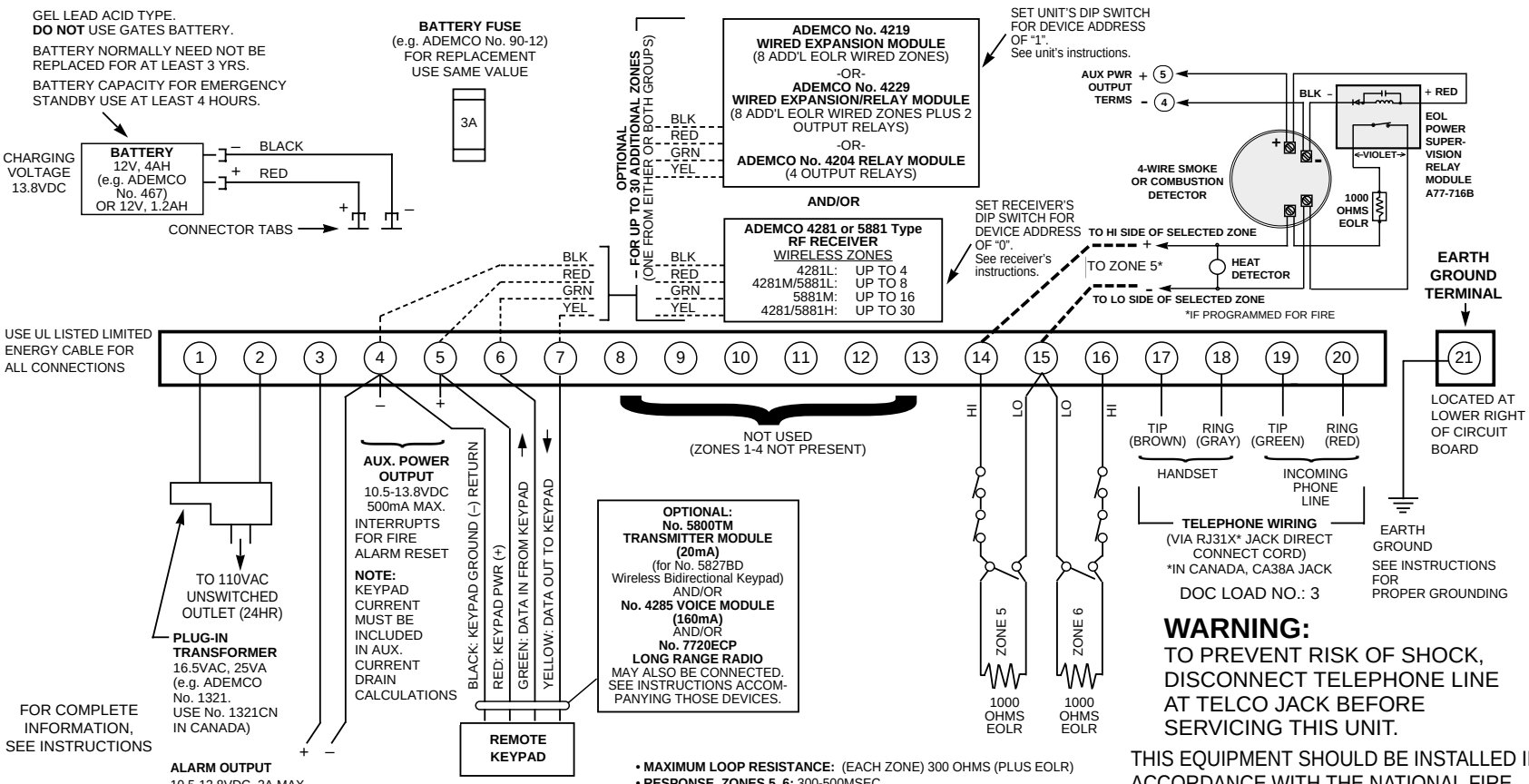
Note: After the control and the PC have established valid communication, each keypad on the system will become inactive and will display "**CC**" or "**MODEM COMM**.". The control, however, will still be scanning its zones and looking for alarms. If an alarm does occur, after communication is broken off, alarms are sounded and the proper dialer reports are sent to the central station. The keypads will become active after the download communication is terminated.

The detailed operation of the download functions is covered in the installation instructions for the *Windows* Downloading Software .

Remote Programming Advisory Notes

- Alarm and trouble reporting may be delayed during the time that the system and the Downloader are linked to each other following a valid exchange of codes, but the proper message will get through to the Central Station after the link is broken.
- Keypad entries are ignored during the time interval stated above.
- A copy of the program downloaded may be produced from the IBM PC compatible computer, using the product's internal report generator, when an optional printer is connected (consult your PC manual for proper printer and connections).
- Program Upload or Download Time—Approximately one minute fifteen seconds for a complete program.

– NOTES –


GEL LEAD ACID TYPE.
DO NOT USE GATES BATTERY.
BATTERY NORMALLY NEED NOT BE REPLACED FOR AT LEAST 3 YRS.
BATTERY CAPACITY FOR EMERGENCY STANDBY USE AT LEAST 4 HOURS.
CHARGING VOLTAGE 13.8VDC
BATTERY 12V, 4AH (e.g. ADEMCO No. 467) OR 12V, 1.2AH
BLACK
RED
CONNECTOR TABS
BATTERY FUSE (e.g. ADEMCO No. 90-12) FOR REPLACEMENT USE SAME VALUE
3A
OPTIONAL – FOR UP TO 30 ADDITIONAL ZONES (ONE FROM EITHER OR BOTH GROUPS)
BLK
RED
GRN
YEL
ADEMCO No. 4219 WIRED EXPANSION MODULE (8 ADD'L EOLR WIRED ZONES)
-OR-
ADEMCO No. 4229 WIRED EXPANSION/RELAY MODULE (8 ADD'L EOLR WIRED ZONES PLUS 2 OUTPUT RELAYS)
-OR-
ADEMCO No. 4204 RELAY MODULE (4 OUTPUT RELAYS)
SET UNIT'S DIP SWITCH FOR DEVICE ADDRESS OF "1". See unit's instructions.
AUX PWR OUTPUT TERMS
AND/OR
ADEMCO 4281 or 5881 Type RF RECEIVER
WIRELESS ZONES
4281L: UP TO 4
4281M/5881L: UP TO 8
5881M: UP TO 16
4281/5881H: UP TO 30
SET RECEIVER'S DIP SWITCH FOR DEVICE ADDRESS OF "0". See receiver's instructions.
4-WIRE SMOKE OR COMBUSTION DETECTOR
BLK
+ RED
VIOLET
EOL POWER SUPER-VISION RELAY MODULE A77-716B
1000 OHMS EOLR
TO HI SIDE OF SELECTED ZONE
TO ZONE 5*
HEAT DETECTOR
TO LO SIDE OF SELECTED ZONE
*IF PROGRAMMED FOR FIRE
EARTH GROUND TERMINAL
USE UL LISTED LIMITED ENERGY CABLE FOR ALL CONNECTIONS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
NOT USED (ZONES 1-4 NOT PRESENT)
HI LO LO HI
TIP (BROWN) RING (GRAY) TIP (GREEN) RING (RED)
HANDSET
INCOMING PHONE LINE
TELEPHONE WIRING (VIA RJ31X* JACK DIRECT CONNECT CORD) *IN CANADA, CA38A JACK
LOCATED AT LOWER RIGHT OF CIRCUIT BOARD
EARTH GROUND
SEE INSTRUCTIONS FOR PROPER GROUNDING
DOC LOAD NO.: 3
TO 110VAC UNSWITCHED OUTLET (24HR)
PLUG-IN TRANSFORMER 16.5VAC, 25VA (e.g. ADEMCO No. 1321. USE No. 1321CN IN CANADA)
FOR COMPLETE INFORMATION, SEE INSTRUCTIONS
AUX. POWER OUTPUT 10.5-13.8VDC 500mA MAX.
INTERRUPTS FOR FIRE ALARM RESET
NOTE: KEYPAD CURRENT MUST BE INCLUDED IN AUX. CURRENT DRAIN CALCULATIONS
BLACK: KEYPAD GROUND (–) RETURN
RED: KEYPAD PWR (+)
GREEN: DATA IN FROM KEYPAD
YELLOW: DATA OUT TO KEYPAD
OPTIONAL: No. 5800TM TRANSMITTER MODULE (20mA) (for No. 5827BD Wireless Bidirectional Keypad) AND/OR No. 4285 VOICE MODULE (160mA) AND/OR No. 7720ECP LONG RANGE RADIO MAY ALSO BE CONNECTED. SEE INSTRUCTIONS ACCOM-PANYING THOSE DEVICES.
REMOTE KEYPAD
ZONE 5
ZONE 6
1000 OHMS EOLR
1000 OHMS EOLR
ALARM OUTPUT 10.5-13.8VDC, 2A MAX. (600mA MAX FOR UL USAGE, INCLUDING AUX. POWER)
STEADY FOR BURGLARY/PANIC, PULSING FOR FIRE (e.g. USE ADEMCO No. 740 SOUNDER, No.702 OR 719 SIREN, OR 12V BELL)
REMOTE KEYPADS SYSTEM MUST BE PROGRAMMED WITH A No. 5137AD OR 6139. IT NEED NOT REMAIN IN SYSTEM.
AFTER PROGRAMMING, THE SYSTEM CAN USE: No. 4127(20mA), 4137AD (60mA), 5137AD (90mA), 6127 (20mA), 6128 (30mA), 6137 (85mA), 6138 (100mA), OR 6139 (100mA).
MULTIPLE KEYPADS MAY BE USED, BUT USE MAX. OF 220 FT. OF #22 WIRE OR 550 FT. OF #18.
• MAXIMUM LOOP RESISTANCE: (EACH ZONE) 300 OHMS (PLUS EOLR)
• RESPONSE, ZONES 5, 6: 300-500MSEC
• ZONE 5 CAN BE PROGRAMMED FOR USE AS A FIRE ZONE. SEE DIAGRAM.
THIS DEVICE COMPLIES WITH PART 15 OF FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.
COMPLIES WITH FCC RULES, PART 68
FCC REGISTRATION NO. AC398U-68192-AL-E
RINGER EQUIVALENCE: 0.7B.
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 74 (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.
CONNECTION OF THE FIRE ALARM SIGNAL TO A FIRE ALARM HEADQUARTERS OR A CENTRAL STATION SHALL BE PERMITTED ONLY WITH THE PERMISSION OF THE LOCAL AUTHORITY HAVING JURISDICTION. THE BURGLAR ALARM SIGNAL SHALL NOT BE CONNECTED TO A POLICE EMERGENCY NUMBER.
WARNING: OWNER'S INSTRUCTION NOTICE NOT TO BE REMOVED.
WEEKLY TESTING IS REQUIRED TO ENSURE PROPER OPERATION OF THIS SYSTEM.

ALARM DEVICE MANUFACTURING CO.
A DIVISION OF PITTWAY CORPORATION
165 Eileen Way, Syosset, New York 11791

N7225PR Rev B 4/99