

# **PROGRAMMING FORM**

## **FA160C 2-PARTITION SECURITY SYSTEM**

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*Principal changes in this issue are indicated by margin lines.*

Local programming requires the use of a 2-line Alpha keypad connected to partition 1 keypad terminals on the control.

NOTE: For UL installations, the system may be configured as a single partition only.

Field	Function	Programmed Values	[ ] = Default Value
<b>SYSTEM SETUP (*20 – *30)</b>			
*20	INSTALLER CODE	Enter 4 digits, 0–9 [ 4 1 1 2 ]	<input type="text"/>
*21	QUICK ARM ENABLE	[0 = no]; 1 = yes	Partition 1 † <input type="checkbox"/> Partition 2 † <input type="checkbox"/>
*22	RF SYSTEM	[0 = none]; 1 = 5800 (5881)	<input type="checkbox"/>
*23	FORCED BYPASS	[0 = none]; 1 = bypass open zones 2 = bypass open zones + (if in system) 17, 30, 31, 46, 47. Must be "0" for UL	Partition 1 † <input type="checkbox"/> Partition 2 † <input type="checkbox"/>
*24	RF HOUSE ID CODE	[0][0] Enter 01–31 if using 5827 keypad. Part'n 2 RF House Code = Entered (Part'n 1) Code + 1	<input type="text"/>
*25	WIRED ZONE EXPANSION	[0 = none]; 1 = 4219; 2 = 4229; 3 = 4204	† <input type="checkbox"/>
*27	X–10 HOUSE CODE	[0 = A]; 1 = B, 2 = C, 3 = D, 4 = E, 5 = F, 6 = G, 7 = H, 8 = I, 9 = J, #10 = K, #11 = L, #12 = M, #13 = N, #14 = O, #15 = P	<input type="text"/>
*28	VOICE MODULE ACCESS CODE (FA4285)	(Partition 1 only) 1st digit: enter 1–9; 2nd digit: enter # + 11 for "*", or # + 12 for "#". Default = 00 (no Voice Module).	<input type="text"/>
*29	OUTPUT TO LONG RANGE RADIO	To enable, enter Trouble code 1–9, B (# + 11), C (# + 12), D (# + 13), E (# + 14), or F (# + 15). The 2nd digit of Trouble Dialer Report is automatically entered from field *60.	<input type="checkbox"/>
*30	KEYSWITCH ENABLE (ZONE 7)	Enter 1 to enable, [0 to disable]. Note: If using only LEDs as arming status indicators (no actual keyswitch), enter "0" to disable. See Instructions.	<input type="checkbox"/>
<b>ZONE SOUNDS AND TIMING (*32 – *38)</b>			
*32	SINGLE ALARM SOUNDING/ZONE	1 = yes; [0 = no]. Must be "0" for UL.	† <input type="checkbox"/>
*33	FIRE SOUNDER TIMEOUT	[0 = timeout]; 1 = no timeout.	† <input type="checkbox"/>
*34	ALARM BELL TIMEOUT	0 = none; [1 = 4 min]; 2 = 8 min; 3 = 12 min. Must be "1" for UL.	† <input type="checkbox"/>
*35	ZONE TYPE 01 ENTRY DELAY	0 = 0, 1 = 20 secs, [2 = 30 secs], 3 = 45 secs, 4 = 60 secs; 5 = 90 secs. Must be "1" for UL. Zone Type 02 Entry Delay = Zone Type 01 Delay + 30 secs. Exit Delay = Zone Type 01 Entry Delay + 40 secs.	Partition 1 † <input type="checkbox"/> Partition 2 † <input type="checkbox"/>
*36	AUDIBLE EXIT WARNING	0 = no; [1 = yes].	Partition 1 † <input type="checkbox"/> Partition 2 † <input type="checkbox"/>
*37	CONFIRMATION OF ARMING DING	[0 = no]; 1 = yes.	Partition 1 † <input type="checkbox"/> Partition 2 † <input type="checkbox"/>
*38	POWER UP IN PREVIOUS STATE	0 = no; [1 = yes]. Must be "1" for UL.	† <input type="checkbox"/>
<b>DIALER PROGRAMMING (*40 – *53)</b> 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 4 digits. If less than 4 digits are entered, exit by pressing * (and press 41, if entering next field). To clear entries, press *40* .	<input type="text"/>
*41	PRIMARY PHONE No.	Enter up to 12 digits. Do not fill unused spaces. If fewer than 12 digits entered, exit by pressing * (and press 42, if entering next field). To clear entries from field, press *41* .	<input type="text"/>
*42	SECONDARY PHONE No.	Enter up to 12 digits. Do not fill unused spaces. If fewer than 12 digits entered, exit by pressing * (and press 43, if entering next field). To clear entries from field, press *42* .	<input type="text"/>
*43	PRIMARY SUBS ACCT # (PART'N 1)	PRIMARY RECEIVER <input type="text"/> *44 SECONDARY SUBS ACCT # (PART'N 1)	SECONDARY RECEIVER <input type="text"/>
*45	PRIMARY SUBS ACCT # (PART'N 2)	PRIMARY RECEIVER <input type="text"/> *46 SECONDARY SUBS ACCT # (PART'N 2)	SECONDARY RECEIVER <input type="text"/>
<p>† Entry of a number other than one specified will give unpredictable results.</p> <p>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*, *44*, *45*, or *46* .</p> <p>Examples: For Acct No. <b>1234</b>, enter: <input type="text"/></p> <p>For Acct No. <b>B234</b>, enter: <input type="text"/></p> <p>For Acct No. <b>123</b>, enter: <input type="text"/></p>			

- \*47 PHONE SYSTEM SELECT If Cent. Sta. /S NOT on a WATS line: [0 = Pulse Dial]; 1 = Tone Dial †   
 If Cent. Sta. /S on a WATS line: 2 = Pulse Dial ; 3 = Tone Dial.
- \*48 REPORT FORMAT, PRIMARY/SECONDARY Primary  Secondary   
 [0 = 3+1, 4+1 ADEMCO L/S STANDARD] 6 or undefined = 4+2 ADEMCO EXPRESS  
 1 = 3+1, 4+1 RADIONICS STANDARD 7 = ADEMCO CONTACT ID REPORTING  
 2 = 4+2 ADEMCO L/S STANDARD 8 = 3+1, 4+1 ADEMCO L/S EXPANDED  
 3 = 4+2 RADIONICS STANDARD 9 = 3+1, 4+1 RADIONICS EXPANDED
- \*49 SPLIT/DUAL REPORTING [0 = Disable (Backup report only)]   
**TO PRIMARY** **TO SECONDARY**  
 1 = Alarms, Restore, Cancel Others  
 2 = All except Open/Close, Test Open/Close, Test  
 3 = Alarms, Restore, Cancel All  
 4 = All except Open/Close, Test All  
 5 = All All
- \*50 15 SEC DIALER DELAY (BURG) [0 = no]; 1 = yes. Must be "0" for UL. †
- \*51 PERIODIC TEST REPORT [0 = none]; 1 = 24 hours; 2 = weekly; 3 = 30 days. †   
 (Enter Test Code in field \*64. Reports with Partition 1 subscriber No.)
- \*52 TEST REPORT OFFSET 0 = 24 hours; 1 = 6 hours; [2 = 12 hours]; 3 = 18 hours. †   
 (Time to 1st report from programming or downloading).
- \*53 SESCOA/RADIONICS SELECT [0 = Radionics (0-9, B-F reporting)]; 1 = SESCOA (0-9 only reporting)   
 Select 0 for all other formats.

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

\*56 **ZONE ASSIGNMENT/ALARM REPORT CODES** — This field is an interactive mode. Fill in the required data on the worksheet below (and on next page) and follow the programming procedure in the installation manual.

**ZONES ON CONTROL:**

See explanation of headings at top of next page ➡ ➡

ZONE DESCRIPTION	ZONE No. (Zn)	ZONE TYPE (ZT)	PART'N No. (P)	ALARM RPT CODE (Hex) (RC)	INPUT TYPE (In)	RESPONSE TIME (RT)
Wired Zone 1*	0 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HW	<input type="checkbox"/>
Wired Zone 2	0 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HW	<input type="checkbox"/>
Wired Zone 3	0 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HW	<input type="checkbox"/>
Wired Zone 4	0 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HW	<input type="checkbox"/>
Wired Zone 5	0 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HW	<input type="checkbox"/>
Wired Zone 6	0 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HW	<input type="checkbox"/>
Wired Zone 7 ‡	0 7	‡ <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HW	<input type="checkbox"/>
Wired Zone 8**	0 8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HW	<input type="checkbox"/>
Expansion Module Supervision	0 9	0 5	Both	<input type="checkbox"/>	—	—
Duress	9 2	— —	Both	<input type="checkbox"/>	—	—
Keypad Panic (1 & *, or A)	9 5	<input type="checkbox"/>	Both	<input type="checkbox"/>	—	<input type="checkbox"/>
Keypad Panic (3 & #, or C)	9 6	<input type="checkbox"/>	Both	<input type="checkbox"/>	—	<input type="checkbox"/>
Keypad Panic (* & #, or B)	9 9	<input type="checkbox"/>	Both	<input type="checkbox"/>	—	<input type="checkbox"/>

\*Zone 1 can be used as a 2-wire Fire zone. (Only zone 1 can be used as a Fire zone in UL installations)

\*\*Zone 8 can be used as a Glassbreak zone.

‡Zone 7 used for optional Keyswitch; shows as 77 for Zone Type (ZT).

**EXPANSION ZONES:**

Assign Zone Numbers (Zn) 10-17 to 4219/4229 Auxiliary Wired Loops A-H, if used. RF can use (Zn) 10-63 if 4219/4229 IS NOT used, (Zn) 18-63 if 4219/4229 IS used

ENTER FOR RF ONLY

ZONE DESCRIPTION	ZONE No. (Zn)	ZONE TYPE (ZT)	PART'N No. (P)	ALARM RPT CODE (Hex) (RC)	INPUT TYPE (In)	LEARNED RF INPUT (L)
4219/4229 Loop A, 1st Exp'n Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B, 2nd	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C, 3rd	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D, 4th	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E, 5th	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## EXPLANATION OF ZONE ASSIGNMENT TABLE HEADINGS

**Zn = ZONE No.** Zone Nos. are from 01 to 63, 92, 95, 96, 99. 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 (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 = Not Used	05 = Trouble Day/Alarm Night	20 = Arm–Stay
01 = Entry/Exit #1	06 = 24 Hr Silent	21 = Arm–Away
02 = Entry/Exit #2	07 = 24 Hr Audible	22 = Disarm
03 = Perimeter	08 = 24 Hr Aux	23 = No Alarm Response
04 = Interior Follower	09 = Fire	24 = Silent Burglary
	10 = Interior w/Delay	

DEFAULT VALUES					
Zn:	01	02	03	04	
ZT:	[09]	[01]	[03]	(03)	
Zn:	05	06	07	08	99
ZT:	[03]	[03]	[03]	[03]	[06]

**P = PARTITION No.** 1 or 2 Default Values for zones 01 – 08 = [1].  
**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 as the first digit, there will be no report for that zone.  
 For contact ID reporting, this is enabling code only. Enter any hex digit (other than 00) in the first pair of boxes. The second pair of boxes is ignored.

**In = LOOP INPUT TYPE**

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

These are automatically assigned, except zones.

**RT = RESPONSE TIME** 0 = 10msec; 1 = 350 msec; 2 = 700 msec. Default Values for zones 01 – 08 = 1 (350 msec)

**L = LEARNED RF INPUT** Used with 5800 RF Loop Input Devices. Record transmitter input number.

CONTINUED FROM PREVIOUS PAGE

ZONE DESCRIPTION	ZONE No. (Zn)	ZONE TYPE (ZT)	PART'N No. (P)	ALARM RPT CODE (Hex) (RC)	INPUT TYPE (In)	LEARNED RF INPUT (L)	ENTER FOR RF ONLY
4219/4229 Loop F, 6th Exp'n Zone	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
G, 7th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
H, 8th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
11th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
12th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
13th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
14th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
15th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
16th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
17th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
18th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
19th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
20th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
21st	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
22nd	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
23rd	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
24th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
25th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
26th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
27th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
28th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
29th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
30th	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**TO PROGRAM SYSTEM STATUS, & RESTORE REPORT CODES (\*59 – \*76, & \*89):**

**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:

For Code **32** (two digits), enter:

For Code **B2** (Hexadecimal), enter:

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

- \*59 EXIT ERROR REPORT CODE
- \*60 TROUBLE REPORT CODE
- \*61 BYPASS REPORT CODE
- \*62 AC LOSS REPORT CODE ▼
- \*63 SYSTEM LOW BAT REPORT CODE ▼
- \*64 TEST REPORT CODE
- \*65 OPEN REPORT CODE Part. 1  ††  
Part. 2  ††
- \*66 ARM AWAY/STAY RPT CODE Part. 1   ††  
AWAY STAY  
Part. 2   ††
- † 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.
- †† 2nd digit 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 – \*76)**

- \*69 NOT USED
- \*70 ALARM RESTORE RPT 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 RPT CODE
- \*72 BYPASS RESTORE RPT CODE
- \*73 AC RESTORE RPT CODE ▼
- \*74 SYSTEM LOW BAT RESTORE RPT CODE ▼
- \*75 RF XMTR LO BAT RESTORE RPT CODE

▼ Reports with Partition 1 Subscriber No.

\*76 TEST RESTORE RPT CODE

**OUTPUT AND SYSTEM SETUP (\*80 – \*93)**

*80 OUTPUT RELAYS AND POWERLINE CARRIER DEVICES	<i>Program only if Relays and/or Powerline Carrier devices are to be used. See next page.</i>
*81 ZONE LISTS FOR OUTPUT DEVICES	

- \*82 CUSTOM ALPHA EDITING (Also entered from field \*56). See procedure in instructions.
- \*83 ADD/DELETE RF INPUT IDs (Also entered from field \*56). See procedure in instructions.
- \*89 EVENT LOG 80% FULL RPT CODE

\*90 EVENT LOGGING   
 0 = None; 1 = Alarm/Alarm Restore; 2 = Trouble/Trouble Restore; 4 = Bypass/Bypass Restore; 8 = Open/Close.  
*Example:* To select "Alarm/Alarm Restore", and "Open/Close", enter 9 (1 + 8); To select all, enter #15. Default = 3.  
**Note:** System messages are logged when any non-zero selection is made.

\*91 OPTION SELECTION (see field \*98 also)   
 [0 = none selected] 4 = AAV (Audio Alarm Ver- + AAV. fication). 6 = Sounder Delay + AAV.  
 1 = Local lockout. 2 = Sounder delay. 3 = Local lockout + sounder delay. 5 = Local lockout + AAV. 7 = Local lockout + Sounder delay + AAV.  
 Only "1", "2", and "3" can be used in uL installations.

\*92 PHONE LINE MONITOR ENABLE   
 [0 = Not used]  
 1 = Keypad display when line is faulted  
 2 = Keypad display plus keypad trouble sound  
 3 = Same as "2", plus Device #2 STARTS. If either partition is armed, external sounder activates also.  
**Note:** Device #2 must either be programmed to be STOPPED in field \*80 or STOPPED by Code + # + 8 + 2.

\*93 NUMBER OF REPORTS IN ARMED PERIOD   
 [0 = 10 Alarm/Alarm Restore Reports]; 1 = Unlimited..  
 Must be "1" for uL installations.

**DOWNLOAD INFORMATION (\*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)  
**Note:** Do not enter "0" if using FA4285 Voice Module.

◇ In uL installations, downloading may only be performed if a technician is at the site.

*96 INITIALIZES DOWNLOAD ID, SUBSCRIBER ACCOUNT No. FOR INITIAL DOWNLOAD: Press *96.
*97 SETS ALL PROGRAM FIELDS TO DEFAULT VALUES: Press *97.

\*98 and \*99 USED TO EXIT PROGRAM MODE (see page 7)

# OUTPUT RELAYS/POWERLINE CARRIER DEVICES WORKSHEET FOR \*80, and \*81.

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

**\*80 OUTPUT DEVICES** – This is an interactive menu mode. Fill in the required data on this worksheet on the back of the device and follow the programming procedure in the installation manual as you would for any other device. The device will be programmed in sequence.

- Notes:**
1. For Relays, field \*25 must be programmed for a valid partition.
  2. For Powerline Carrier devices, field \*27 is programmed for a valid partition.
  3. Tamper contacts or expansion units cannot be used to operate devices.

DEVICE NUMBER	X-10 SELECT	ACTION (A)	START either or both				STOP either or both		
			EVENT (EV)	ZONE LIST (ZL)	ZONE TYPE /SYST OP'N (ZT)	PART'N No. (P)	RESTORE of ZONE LIST (ZL)	ZONE TYPE /SYST OP'N (ZT)	PART'N No. (P)
OUTPUT RELAY OR P.L.C.D.* 01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
OUTPUT RELAY OR P.L.C.D.* 02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
OUTPUT RELAY OR P.L.C.D.* 03	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
OUTPUT RELAY OR P.L.C.D.* 04	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
P.L.C.D.* 05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
P.L.C.D.* 06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
P.L.C.D.* 07	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
P.L.C.D.* 08	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

\*P.L.C.D. = Powerline Carrier Device (X-10).

Where:

**X-10 SELECT** = **Powerline Carrier Device** Enter "1" if Powerline Carrier Device is being used, enter "0" if relay is being used.

**A = DEVICE 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, device action will START.

"STOP" RESTORE of ZONE LIST: Upon restore of ALL zones on this list, device 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                | 07 = 24 Hr Audible    |
| 01 = Entry/Exit#1            | 08 = 24 Hr Aux        |
| 02 = Entry/Exit#2            | 08 = 24 Hr Aux        |
| 03 = Perimeter               | 09 = Fire Trouble     |
| 04 = Interior Follower       | 10 = Interior w/Delay |
| 05 = Trouble Day/Alarm Night | 24 = Silent Burglary  |
| 06 = 24 Hr Silent            |                       |

**Choices for System Operation are:**

- |                             |                            |
|-----------------------------|----------------------------|
| 20 = Arming-Stay            | 39 = Any Fire Alarm        |
| 21 = Arming-Away            | 40 = Bypassing             |
| 22 = Disarming (Code + OFF) | 41 = **AC Power Failure    |
| 31 = End of Exit Time       | 42 = **System Battery Low  |
| 32 = Start of Entry Time    | 43 = Communication Failure |
| 33 = Any Burglary Alarm     | 52 = Kissoff               |
| 36 = **At Bell Timeout***   | 58 = Duress                |
| 38 = Chime                  |                            |

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

\*\*\* Or at Disarming, whichever occurs earlier.

**P = PARTITION No.** 1, 2, or 0 for Any

**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.

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

**\*81 ZONE LISTS FOR OUTPUT DEVICES** – This is an interactive mode. Fill in the required data on the worksheet below and follow the procedure in the installation manual as you enter the data during the displays and prompts that appear in sequence.

**Note:** Record desired zone numbers below. 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.

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## SPECIAL MESSAGES

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

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

After powering up, **AC**, **d1** (disabled) or **System Busy** and **NOT READY** will be displayed after approximately 4 seconds. This will revert to **READY** in appx. 1 minute, which allows PIRS, etc. to stabilize. To bypass this delay, press: **[#] + [0]**.

If **E4** or **E8** appears, more zones than the expansion units can handle have been programmed. Correct the programming and then completely de-power and re-power the control to clear this indication and remove the disable indication.

### TO ENTER PROGRAMMING MODE:

1. POWER UP, then depress **[\*]** and **[#]** both at once, within 50 seconds of powering up.  
OR
2. Initially, key: **Installer Code (4 + 1 + 1 + 2)** plus **8 + 0 + 0**.  
OR
3. If different **Installer Code** is programmed, key: **New Installer Code + 8 + 0 + 0**.  
(if \*98 was used to exit previously, method 1 above must have to be used to enter the program mode again – see \*98 below).

### TO EXIT PROGRAMMING MODE:

- \*98 Exits programming mode and *prevents* re-entry by (or, if Local lockout has been chosen in field \*91, *allows* re-entry *only* by): **Installer Code + 8 + 0 + 0**.
- \*99 Exits programming mode and *allows* re-entry by: **Installer Code + 8 + 0 + 0** or by: **Power-up** then press **[\*]** and **[#]**.



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