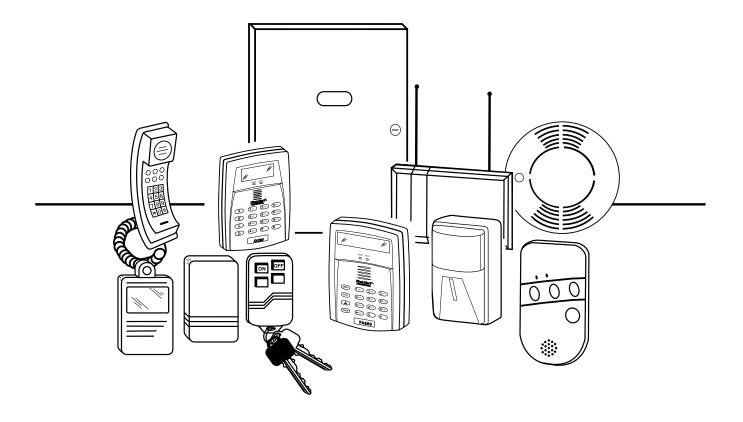
FA168C / FA168C-CN FA148CP / FA148CP-CN

Programming Guide





TO ENTER PROGRAMMING MODE:

Local programming requires the use of an alpha keypad connected to the keypad terminals on the control.

- POWER UP, then depress [*] and [#] both at once, within 50 seconds of powering up.
- Initially, key: Installer Code (default = 4112) plus 8 + 0 + 0.
 (if *98 was used to exit previously, see To Exit Programming Mode paragraph below.

Data Field Programming Procedures

Task	Procedure	
Go to a Data Field	Press [*] + [Field Number], followed by the required entry.	
Entering Data	When the desired field number appears, simply make the required entry. When the entry for a field is entered, the keypad beeps three times and automatically displays next data field in sequence. If the number of digits that you need to enter in a data field is less than the maximu digits available (for example, the phone number fields *41, *42), enter the desired of then press [*] and the next data field number to be programmed to end the entry.	
Review a Data Field	Press [#] + [Field Number]. Data will be displayed for that field number. No changes will be accepted in this mode.	
Deleting an Entry	Press [*] + [Field Number] + [*]. (Applies only to fields *40–*46, *94, and pager programming fields)	

Interactive Mode Programming (*56, *57, *58, *79, *80, *81, *82)

Press [*] + [Interactive Mode No.] (for example, *56). The alpha display keypad will display the first of a series of prompts requesting entries.

Interactive Mode	Used to Program
★56 Zone Programming	Zone characteristics, report codes, alpha descriptors, and serial numbers for 5800 RF transmitters.
★57 Function Key Programming	Unlabeled keypad keys (known as ABCD keys) for special functions
★58 Zone Programming (Expert mode)	Same options as *56 mode, but with fewer prompts. Intended for those familiar with this type of programming, otherwise *56 mode is recommended.
⋆79 Output Device Mapping	Assign module addresses and map individual relays/powerline carrier devices
★80 Output Programming	4229 or 4204 Relay modules, Powerline Carrier devices, or on-board triggers
★81 Zone List Programming	Zone Lists for relay/powerline carrier activation, chime zones, pager zones, etc.
★82 Alpha Programming	Zone alpha descriptors

INITIALIZE DOWNLOAD and RESET DEFAULTS

- **★96** Initializes download ID and subscriber account number.
- **★97** Sets all data fields to original factory default values.

TO EXIT PROGRAMMING MODE:

- *98 Exits programming mode and *prevents* re-entry by: **Installer Code** + 8 + 0 + 0. To reenter the programming mode, the system must be powered down, then powered up, then press both [*] and [#] at same time within 50 seconds of powering up (method 1 described above), UNLESS Local Lockout (in field *91) is enabled. If so, re-entry to programming mode is permitted *only* by **Installer Code** + 8 + 0 + 0 (method 2 described above).
- *99 Exits programming mode and allows re-entry by: Installer Code + 8 + 0 + 0 or method 1 above.

Special Messages

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

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

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

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

PROGRAMMING FORM

Entry of a number other than one specified will give unpredictable results. Values shown in brackets are factory defaults. Entries shown in dashed boxes indicate partition entries for FA168C only (not applicable for FA148CP).

	Function	Data Entries	Programmable Values
	EM SETUP (*20-*29)		
* 20	INSTALLER CODE	[4112]	4 digits, 0–9
*21	QUICK ARM ENABLE	[0,0] Part. 1 Part.2	0 = no; 1 = yes
*22	RF JAM OPTION	[0]	0 = no RF Jam detection; 1 = send RF Jam report UL: must be 1 if wireless devices are used
*23	FORCED BYPASS	[0,0] Part. 1 Part. 2	0 = none UL: must be "0" 1 = bypass open zones
* 24	RF HOUSE ID CODE	Part. 1 Part. 2 Common	00 = disable all wireless keypad usage 01–31 = using 5827, 5827BD or 5804BD keypad [00,00,00]
*26	CHIME BY ZONE	[0]	0 = no; 1 = yes (select zones to chime on zone list 3, using *81 Menu mode)
*27	X-10 HOUSE CODE	[0]	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 UL: not for fire or UL installations
*28	ACCESS CODE FOR 4285/4286 PHONE MODULE	[00] (Partition 1 only)	00 = disable; 1st digit: enter 1–9; 2nd digit: enter # + 11 for "≯", or # + 12 for "#". UL: must be "00" for UL Commercial Burg. installations
* 29	LONG RANGE RADIO OUTPUT	[0]	0 = disable; 1 = enable
ZONE	SOUNDS AND TIMING (*31 – *39)		
*31	ONE AUDIBLE ALARM PER ZONE	[0]	0 = no UL: must be "0"; 1 = yes
*32	FIRE ALARMSOUNDER TIMEOUT	[0]	0 = sounder stops at timeout; 1 = no sounder timeout UL: must be "1" for fire install.
*33	ALARM SOUNDER TIMEOUT	[1]	0 = none; 1 = 4 min; 2 = 8 min; 3 = 12 min; 4 = 16 min; UL: minimum "1" (4 min.)
*34	EXIT DELAY	Part. 1 Part. 2	00–99 = seconds of exit delay time for each partition Common zones use same delay as partition 1.
*35	ENTRY DELAY #1 (zone type 01)	[30,30] Part. 1 Part. 2	00–99 = seconds of entry delay #1 time for each partition; UL: 45 seconds max. Common zones use same delay as partition 1.
*36	ENTRY DELAY #2 (zone type 02)	[] [60,60] Part. 1 Part. 2	00–99 = entry delay #2 time for each partition; UL: 60 seconds max. Common zones use same delay as partition 1.
* 37	AUDIBLE EXIT WARNING	[] [1,1] Part. 1 Part. 2	0 = no; 1 = yes
*38	CONFIRMATION OF ARMING DING	[] [0,0] Part. 1 Part. 2	0 = no; 1 = yes (wired keypads and RF) 2 = yes, RF only
⊁39	POWER UP IN PREVIOUS STATE	[1]	0 = no; 1 = yes UL: must be "1"
DIALE	ER PROGRAMMING (*40 – *42)		
Enter t			; #+12 for '#'; #+13 for a 2-second pause. If fewer than the
* 40	PABX ACCESS CODE	Enter up to 6 digits. To clea	r entries from field, press ★40★ .
* 41	PRIMARY PHONE No	ts. To clear entries, press *41	
* 42	SECOND PHONE No		2*.

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

For fields *43-*46: Enter 0-9; #+11 for B; #+12 for C; #+13 for D; #+14 for E; #+15 for F. Enter [*] as the fourth digit if a 3-digit account number (for 3+1 dialer reporting format) is used. Enter 0 as the first digit of a 4-digit account number for Nos. 0000-0999. Exit field by pressing * (and press next field number) if only 3 digits are used. E.g., For Acct. B234, enter: #+11 2 3 4

* 43	PARTITION 1 PRIMARY SUBS. AC	CCT. No.		FFFF]	See box above for entries. To cl from field, press *43*.	ear entries
* 44	PARTITION 1 SECONDARY SUBS	. ACCT. No.		FFFF]	See box above for entries. To cl from field, press *44*.	ear entries
* 45	PARTITION 2 PRIMARY SUBS. AC	CCT. No.		[FFFF]	See box above for entries. To cl from field, press *45*.	ear entries
* 46	PARTITION 2 SECONDARY SUBS	. ACCT. No.	[[]]	FFFF]	See box above for entries. To cl from field, press *46*.	ear entries
*47	PHONE SYSTEM SELECT		[1]		If Cent. Sta. <i>IS NOT</i> on a WATS line: 0=Pulse Dial; 1=Tone Dial; if Cent. Sta. <i>IS</i> on a WATS line: 2 = Pulse Dial; 3 = Tone Dial	
*48	REPORT FORMAT		primary sec	[70] condary	0 = 3+1, 4+1 ADEMCO L/S STA 1 = 3+1, 4+1 RADIONICS STAI 2 = 4+2 ADEMCO L/S STANDA 3 = 4+2 RADIONICS STANDA 6 = 4+2 ADEMCO EXPRESS 7 = ADEMCO CONTACT ID® F 8 = 3+1, 4+1 ADEMCO L/S EXI 9 = 3+1, 4+1 RADIONICS EXP	NDARD ARD RD REPORTING PANDED
*49	SPLIT/DUAL REPORTING		[0]		0 = Disable (Backup report only Primary Phone No.) Second
					Phone No. 1 = Alarms, Restore, Cancel 2 = All except Open/Close, Tes 3 = Alarms, Restore, Cancel	Others Open/Close Test All
					4 = All except Open/Close, Tes 5 = All	
*50	15 SEC DIALER DELAY (BURG)		[0]		0 = no UL: must be "0"; 1 = yes	1
⊁53	SESCOA/RADIONICS SELECT		[0]		0 = Radionics (0-9, B-F) 1 = SESCOA (0-9 only reportir Select "0" for all other formats.	ng)
★54	DYNAMIC SIGNALING DELAY		[0]		Delay selectable from 0 to 225 increments. 0 = no delay (both signals sent) 2 = 30 secs, etc. UL: must be '	<u>, 1</u> = 15 secs,
* 55	DYNAMIC SIGNALING PRIORITY		[0]		0 = Primary Dialer first; 1 = Lon first.	
For 3 A 0 For E A 0 For A	ROGRAM SYSTEM STATUS, & RESTOR 1 or 4+1 Standard Format: Enter a code in the (not #+10) in the first box will disable a report. A expanded or 4+2 Format: Enter codes in both be (not #+10) in the second box will eliminate the edemco Contact ID® Reporting: Enter any digit (not #+10) in the first box disables the report.	e first box: 1–9, #+10 for 0 (not #+10) in the seco oxes (1st and 2nd digits) xpanded message for that (other than 0) in the first	0, #+11 for B, #+ nd box will result for 1–9, 0, or B- at report. A 0 (no t box, to enable 2	12 for C, #+13 for in automatic adv F, as described t #+10) in both become to report (en	vance to the next field. above. oxes will disable the report.	
	EM STATUS REPORT CODES (*5	<u></u>	O a a b a a	-1		
*59 *60	EXIT ERROR REPORT CODE TROUBLE REPORT CODE	[0]	See box			
★61	BYPASS REPORT CODE	[00]				
*62	AC LOSS REPORT CODE	[00]				
★63	LOW BAT REPORT CODE	[00]	-			
*64	TEST REPORT CODE	[00]	-	above. Use So	cheduling mode to set periodic tes	t reports.
*65	OPEN REPORT CODE		[0,0,0]	See box al	bove.	
* 66	ARM AWAY/STAY RPT CODE		2 Common Vay Stay Part. 2	Away Stay	[0,0,0,0,0,0] See box above.	

⊁67	RF XMTR LOW BAT REPORT CODE	[00]	See box on previous page.
			UL: must be enabled if wireless devices are used
*68	CANCEL REPORT CODE	[00]	See box on previous page.
REST	ORE REPORT CODES (*70 – *76)		
*70	ALARM RESTORE RPT CODE	[0]	See box on previous page.
*71	TROUBLE RESTORE RPT CODE	[00]	See box on previous page.
⊁72	BYPASS RESTORE RPT CODE	[00]	See box on previous page.
⊁73	AC RESTORE RPT CODE	[00]	See box on previous page.
⊁74	LOW BAT RESTORE RPT CODE	[00]	See box on previous page.
*75	RF XMTR LO BAT RST RPT CODE	[00]	See box on previous page.
v ===	TEOT DECTORE DET 000E		UL: must be enabled if wireless devices are used
*76	TEST RESTORE RPT CODE	[00]	See box on previous page.
	PUT AND SYSTEM SETUP (*77 – *93) DAYLIGHT SAVINGS TIME START∖END MONTH	[4][10]	0 = Disabled 1-12 = January-September (1 = Jan, 2 = Feb, etc) #+10 = October; #+11 = November; #+12 = December
* 78	DAYLIGHT SAVINGS TIME START\END WEEKEND	[1][5]	0 = disabled, 1 = first, 2 = second, 3 = third 4 = fourth, 5 = last, 6 = next to last, 7 = third to last
⊁84	AUTO STAY ARM	[0]	0 = no, 1 = partition 1 only 2 = partition 2 only, 3 = both partitions
⊁ 85	CROSS ZONE TIMER	[0]	0 = 15 seconds 6 = 2-1/2 min #+12 = 8 min 1 = 30 seconds 7 = 3 min #+13 = 10 min
	This option not for use in UL installations.		2 = 45 seconds 8 = 4 min #+15 = 10 min 3 = 60 seconds 9 = 5 min #+15 = 15 min 4 = 90 seconds #+10 = 6 min 5 = 2 minutes #+11 = 7 min (assign cross zones on zone list 4, with *81 Menu mode)
⊁86	CANCEL VERIFY	[0]	0 = no, 1 = yes
*87	MISC. FAULT DELAY TIME (used with Configurable Zone Types "digit 6")	[0]	0 = 15 seconds 6 = 2-1/2 min #+12 = 8 min 1 = 30 seconds 7 = 3 min #+13 = 10 min 2 = 45 seconds 8 = 4 min #+14 = 12 min 3 = 60 seconds 9 = 5 min #+15 = 15 min 4 = 90 seconds #+10 = 6 min 5 = 2 minutes #+11 = 7 min UL: may only be used on non-burglar alarm/ non-fire alarm
			zones when used in fire and/or UL burglar alarm installation
⊁89	EVENT LOG FULL REPORT CODE	[00]	See box on previous page for report code entries.
*90	EVENT LOG ENABLES	NOTE: System messages are logged when any non-zero selection is made.	0 = None; 1 = Alarm/Alarm Restore 2 = Trouble/Trouble Restore; 4 = Bypass/Bypass Restore; 8 = Open/Close. <i>Example</i> : To select "Alarm/Alarm Restore", and "Open/Close", enter 9 (1 + 8); To select all, enter #15.
*91	OPTION SELECTION	[8]	0 = None 1 = Local Lockout 4 = AAV UL: do not use AAV 2 = Sounder Delay 8 = Exit Delay Restart E.g. (multiple choice): for AAV (4) plus Exit Delay restart (8) enter # + 12; for all (1 + 2 + 4 + 8), enter # + 15.
*92	PHONE LINE MONITOR ENABLE	[0,0]	Digit 1:: 0 = disabled, 1-15 = 1 min - 15 min (#+10 = 10 min; #+11 = 11 min; #+12 = 12 min;
⊁ 93	UL: see Inst. Instructions for requirements No. OF REPORTS IN ARMED PERIOD	[O]	#+13 = 13 min; #+14 = 14 min; #+15 = 15 min) Digit 2: 0 = Keypad display when line is faulted 1 = Keypad display plus keypad trouble sound 2 = Same as "1", plus programmed output device STARTS. If either partition is armed, external sounder activates also. NOTE: Output Device must either be programmed to be STOPPED in field *80 or STOPPED by Code + # + 8 + output number. 0 = Unlimited Reports; 1 = 1 report; 2 = 2 reports
	PER ZONE (Swinger Suppression)		UL: must be "0"

DOWNLOAD INFORMATION (*94, *9	5)	
★94 DOWNLOAD PHONE No.		
space	ces. If fewer than 20 digits, exit field by	12 for '#'; #+13 for a 2-second pause. Do not fill unused pressing ★ (and press 95, if entering next field). To clear pading may be performed only if a technician is at the site.
★95 RING COUNT FOR DOWNLOAD	DING [15]	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 4285/4286 Phone Module
PAGER OPTIONS (*160-*172)		
★160 PAGER 1 PHONE No.		
En	ter up to 20 digits. 0–9; #+11 = '≯'; #+1	12 = '#'; #+13 = 2-second pause.
★161 PAGER 1 CHARACTERS		
	Enter the optional prefix cl 0-9; #+11 = $'*$ '; #+12 = '#	
*162 PAGER 1 REPORTING OPTION	S [1] [1] [1] Part. 1 Part. 2 common [0,0,0]	For each partition, select from the following options: 0 = no reports sent 1 = Open/closes all users 4 = All alarms and troubles 5 = All alarms / troubles, and open/closes for all users 12 = Alarms / troubles for zones entered in zone list 9 13 = Alarms / troubles for zones entered in zone list 9, and open/closes for all users
*163 PAGER 2 PHONE No.		
En	ter up to 20 digits. 0–9; #+11 = '★'; #+1	12 = '#'; #+13 = 2-second pause.
★164 PAGER 2 CHARACTERS		
	Enter the optional prefix of $0-9$; $\#+11 = '*+'$; $\#+12 = '#+'$	
★165 PAGER 2 REPORTING OPTION	S [[0,0,0]] Part. 1 Part. 2 common	See field *162 for reporting options. Select for each partition (use zone list 10 if using options 12 or 13).
*166 PAGER 3 PHONE No.		
★167 PAGER 3 CHARACTERS		
★168 PAGER 3 REPORTING OPTION	S [0,0,0] Part. 1 Part. 2 common	See field *162 for reporting options. Select for each partition (use zone list 11 if using options 12 or 13).
169 PAGER 4 PHONE No.	ter up to 20 digits. 0–9; #+11 = ''; #+1	
★170 PAGER 4 CHARACTERS	Enter the optional prefix cl 0–9; #+11 = '*+'; #+12 = '#	
★171 PAGER 4 REPORTING OPTION	S [0,0,0] Part. 1 Part. 2 common	See field *162 for reporting options. Select for each partition (use zone list 12 if using options 12 or 13).
*172 PAGER DELAY OPTION FOR A	LARMS [3]	0 = none, 1 = 1 minute, 2 = 2 minutes, 3 = 3 minutes This delay is for ALL pagers in the system. NOTE: The delay does not reset for new alarms occurring while an existing pager delay is in progress.
MISCELLANEOUS SYSTEM FIELDS (*174-*181)	
★174 CLEAN ME REPORTING OPTIO (for ESL smoke detectors)	NS [0]	0 = disable; 1 = Clean Me signal reports; Note: If Clean Me is enabled, you must enter "3" in field ★56 programming for zone 1 response time.
★177 DEVICE DURATION 1, 2 (used in *80 Menu mode-Device Action	ons 5/6)	0 = 15 seconds 6 = 2-1/2 min #+11 = 7 min 1 = 30 seconds 7 = 3 min #+12 = 8 min 2 = 45 seconds 8 = 4 min #+13 = 10 min 3 = 60 seconds 9 = 5 min #+14 = 12 min 4 = 90 seconds #+10 = 6 min #+15 = 15 min
*181 50/60 HERTZ AC OPERATION	□ roı	5 = 2 minutes 0 = 60 Hz; 1 = 50 Hz

CONFIGURABLE ZONE TYPE OPTIONS (*182-*185)	
*182 CONFIGURABLE ZONE TYPE 90	next page. Each entry is the (0-9, #+10=10, #+11=11, #+ UL: Do not configure zones	5 6 7 8 9 10 for each entry, 1-10, based on the charts provided on e sum of the values of its selected options +12=12, #+13=13, #+14=14, #+15=15). s as a fire alarm or UL burglar alarm zone.
183 ZONE TYPE 90 REPORT CODES IMPORTANT: Use existing Contact ID® codes, if appropriate, or define unique codes in CID code range 750-789. See important note in installation instructions.	90 ALARM ID: XXX TROUBLE ID: XXX	Enter the desired 3-digit Contact ID® report codes for alarms and troubles occurring on zones assigned to this zone type. Enter the codes sequentially (all 6 digits). When entering digits, [#] moves cursor back, [] moves forward. Press [*] when done to continue.
*184 CONFIGURABLE ZONE TYPE 91	next page. Each entry is the (0-9, #+10=10, #+11=11, #+	5 6 7 8 9 10 for each entry, 1-10, based on the charts provided on e sum of the values of its selected options +12=12, #+13=13, #+14=14, #+15=15). s as a fire alarm or UL burglar alarm zone.
★185 ZONE TYPE 91 REPORT CODES IMPORTANT: Use existing Contact ID® codes, if appropriate, or define unique codes in CID code range 750-789. See important note in installation instructions.	91 ALARM ID: XXX TROUBLE ID: XXX	Enter the desired 3-digit Contact ID® report codes for alarms and troubles occurring on zones assigned to this zone type. Enter the codes sequentially (all 6 digits). When entering digits, [#] moves cursor back, [*] moves forward. Press [*] when done to continue.
KEYPAD OPTIONS (*190-*196 NOTE: Options	s for keypad address 16 a	re set by the factory and cannot be changed.)
NOTE: Each keypad must be assigned a unique unpredictable results.	e address. Keypads progra	ammed with the same address will give
* 190 KEYPAD 2 ADDRESS 17	Partition/ Sound Enable FA168C: enter partition FA148CP: 1 = enable 0 = disable	Partition: 0 = keypad disabled; 1-3 = part. no. (3 = com) Sound: 0 = no suppression 1 = suppress arm/disarm and E/E beeps 2 = Suppress chime beeps only 3 = suppress arm/disarm, E/E, and chime beeps
★ 191 KEYPAD 3 ADDRESS 18	Part./Enable [†] Sound	See field *190 for entries. † FA168C: enter partition FA148CP: 1 = enable; 0 = disable
* 192 KEYPAD 4 ADDRESS 19	Part. /Enable [†] Sound	See field *190 for entries. † FA168C: enter partition FA148CP: 1 = enable; 0 = disable
★ 193 KEYPAD 5 ADDRESS 20	Part. /Enable [†] Sound	See field *190 for entries. † FA168C: enter partition FA148CP: 1 = enable; 0 = disable
★ 194 KEYPAD 6 ADDRESS 21	Part. /Enable [†] Sound	See field *190 for entries. † FA168C: enter partition FA148CP: 1 = enable; 0 = disable
★ 195 KEYPAD 7 ADDRESS 22	Part. /Enable [†] Sound	See field *190 for entries. † FA168C: enter partition FA148CP: 1 = enable; 0 = disable
★ 196 KEYPAD 8 ADDRESS 23	Part. /Enable [†] Sound	See field *190 for entries. † FA168C: enter partition FA148CP: 1 = enable; 0 = disable
★ 197 EXIT TIME DISPLAY INTERVAL	[0]	0 = no display; 1-5 = seconds between display refresh
★ 198 DISPLAY PARTITION NUMBER (for Alpha Display Keypads)	[0]	0 = no; 1 = yes (partition no. appears on Alpha Display)
★ 199 ECP FAIL DISPLAY	[0]	0 = 3-digit display ("1" + device address) 1 = 2-digit fixed-display as "91"

Configurable Zone Types Worksheets

Configurable zone types 90 and 91 can be programmed via downloader software or from a keypad using data fields*182-*185. Configurable zone types 92 and 93 (FA168C only) can only be programmed using the downloader software.

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

ENTRY 1 (see n	ote 5 for RF zones)	ENTRY 2 (see r	note 5 for RF zones)	
Response when Intact EOL RF zone normal	system disarme Open RF zone N/A	d and zone is: Shorted RF zn off-normal	Auto Restore	Vent Zone
0 = normal 1 = alarm 2 = trouble 3 = fault	0 = normal 4 = alarm 8 = trouble 12 = fault	0 = normal 1 = alarm 2 = trouble 3 = fault	0 = no 4 = yes	0 = no 8 = yes
Entry 1 = EOL +	Open	Entry 2 = Short -	+ auto restore + ve	ent zone

ENTRY 3 (see n	ote 5 for RF zones)	ENTRY 4 (see r	note 5 for RF zones)	
Response when Intact EOL RF zone normal	armed STAY an Open RF zone N/A	d zone is: Shorted RF zn off-normal	Byp. when disarmed	Byp. when armed
0 = normal 1 = alarm 2 = trouble 3 = fault	0 = normal 4 = alarm 8 = trouble 12 = fault		-	0 = no 8 = yes
Entry $3 = EOL +$	Open	Entry 4 = Short +	byp. disarmed +	byp. armed

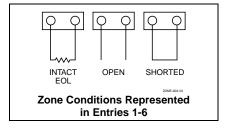
ENTRY 5 (see n	ote 5 for RF zones)	ENTRY 6(see no	ote 5 for RF zones)	
Response when Intact EOL RF zone normal	armed AWAY ar Open RF zone N/A	nd zone is: Shorted RF zn off-normal	Dial Delay (see field *50)	Fault Delay (see field *87)
0 = normal	0 = normal	0 = normal	0 = no	0 = no
1 = alarm	4 = alarm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

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

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

Entries for Fields *182 and *184											
Zone Type 90 (field *182)	Zone Type 91 (field *184)										
·											
	Zone Type 90										

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



NOTES:

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

*56 ZONE PROGRAMMING WORKSHEET (FA148CP supports up to 32 zones: 1-6, 9-34) [default shown in brackets]

7000	Zn Type	Dort		Input Type	Loop	Rsp. Time	Coriol No.	Location
					гоор		Serial No.	Location
1	[09]	[1]		[HW]		[1]		
2	[01]	[1]		[HW]		[1]		
3	[03]	[1]		[HW]		[1]		
4	[03]	[1]		[HW]		[1]		
	[03]			[HW]				
5		[1]				[1]		
6	[03]	[1]		[HW]		[1]		
7	[03]	[1]	1	[HW]	į	[1]	i !	
8	[03]		i	[HW]		[1]		;i
9	[00]	[.1	i e	[1.144]	1	1.1		
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	1							
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31								
	1							
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38	<u>. i</u>	<u>:</u>	<u>:</u>		<u>:</u>		<u> </u>	<u></u>
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41	· 				†	!	1	<u> </u>
		!			:			
42 43	. }	i	i		i		¦ 	
43	. <u>.</u>	i	i	i 	i 		i 4	<u> </u>
44	1	1	i i		1		1 1	;
45		;	,	, · ·	,		1	
46	· 	<u> </u>			<u> </u>			
	. .	<u></u>	<u>:</u>		:			
47	. 	i	i		i		; 	
48	1		1	<u> </u>			I	
49	1	[1]		[BR]				
50		[1]		[BR]				
51	 	[1]		[BR]	 			
	1				1			
52		[1]		[BR]				
53	<u> </u>	[1]		[BR]	<u>L</u>		<u> </u>	<u> </u>
54		[1]		[BR]				
¬ 55	1	[1]		[BR]	1			
	1				1			
56	1	[1]		[BR]				
57	i	[1]	i J	[BR]	j	i !	i !	
58	·	[1]		[BR]			7	
e 59		[1]		[BR]			* I	·
	·}	밝	-				 	<u></u>
60	. 	[1]	¦	[BR]				
61		[1]	! 	[BR]		! 	· ·	, ,
62		[1]	- -	[BR]				
e 63	· } ·	[1]	i	[BR]			†	
00		. [1]		[BR]			<u>.</u>	·
64	1	[1]	1			N 1 / A	I Intra	1,547,45
95	[00]			N/A			N/A	keypad [1] / [*]
96	[00]			N/A	N/A	N/A	N/A	keypad [3] / [#]
99	[06]			N/A			N/A	keypad [*] / [#]
		1	l .				AW (2-zones 9-48) RF (3-zones 9-48)	11D // 2 / 2 / 2 / 2

Reserved Zones

91 = addressable device report enable/disable default zone type = [05].

92 = Duress report enable/disable

99 [06] N/A N/A N/A N/A N/A keypad [*] / [#]

NOTES: Zone Type: see chart on page 12; Input Type: HW (1-zones 1-8), AW (2-zones 9-48), RF (3-zones 9-48), UR (4-zones 9-48), BR (5-zones 49-64); Response Time: 0 (10msec), 1 (350msec), 2 (700msec), 3 (1.2 sec)

*57 FUNCTION KEY PROGRAMMING

Option	Function	Α	В	С	D	Comments
01	Paging					
02	Time Display					
03	Arm AWAY					
04	Arm STAY					
05	Arm NIGHT-STAY					
06	Step Arming					
07	Device Activation					Device:
80	Comm. Test					
09	Macro Key 1					
10	Macro Key 2					
11	Macro Key 3		!	<u> </u>	!	
12	Macro Key 4]		
00	Emergency Keys:					
	Personal Emergency					
	Silent Alarm					
	Audible Alarm					
	Fire					
	Emergency Keys: A	= [1] /	[*]	B = [*	:] / [#]	C = [3] / [#]

OUTPUT RELAYS/POWERLINE CARRIER DEVICES WORKSHEET FOR *79, *80 and *81.

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

*79 RELAY/POWERLINE CARRIER DEVICE MAPPING (Must program before using *80)

	OUTPU	Г ТҮРЕ		
	Re	lay	X10	
Output	Module	Pos	Unit	
No.	Addr.	(1-4)	No.	Description
01				
02				
03				
04				
05				
06				
07				
08				

	regram zere denig et/										
	OUTPU	T TYPE	(09-16 a	pply to FA168C only)							
	Rel	lay	X10								
Output	Module	Pos	Unit								
No.	Addr.	(1-4)	No.	Description							
09			 								
10			 								
11			i · · · · · · · · · · · · ·								
12			! !								
13											
14											
15			!								
16											
17	On-Board Trigger 1										
18	On-Board Trigger 2										

★81 ZONE LISTS FOR OUTPUT DEVICES

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

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

List No.	Used For	Contains These Zones
01	General Purpose (GP)	
02	General Purpose	
03	Chime-by-Zone or GP	
04	Cross Zones	
05	Night-Stay Zones or GP	
06	General Purpose	
07	General Purpose	
08	General Purpose	
09	Zones activating pager 1	
10	Zones activating pager 2	
11	Zones activating pager 3	
12	Zones activating pager 4	

***80 OUTPUT DEFINITIONS**

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

Notes: 1. For Relays, 4229 and 4204 devices are programmed in *79, *80, and *81 modes.

- 2. For Powerline Carrier devices (plcd), field *27 must be programmed with a House Code.
- 3. Tampers of expansion units cannot be used to operate devices.

Output	Ad	ctivation Typ	e and Detai	I	Partition	Event (for zone	list/activated by)	Action	Output	Device
Function	Activated by	Zone List	Zone Type	Zone No.	Number	By Zone List	By Zone No.	0 = off	Number	Type
Number	0=delete	(ZL)	(ZT)	(ZN)		_,	_,	1 = close 2 secs		· .
(V20P=1-48)		1-8 = list	(see table	00=none	(P) (if using ZT trig)	0 = restore	0 = restore		FA168C:	R = relay
(V15P=1-24)	2-zn type	. 0 –	below)	01-64	0 = any	1 = alarm	1 = alrm/flt/trbl	3 = pulse	1-18	T = trigger
(3=zn no.		50.0117	0.04	1 = partition 1	2 = fault		4 = toggle		X = X10
	3-211 110.				2 = partition 2	3 = trouble		5 = duration 1††	EA1/8CD:	X = X10
					3 = common	3 = trouble		6 = duration 2††	1-8 17 18	
1					o = common			0 = duration 2	1-0, 17, 10	
2										
3										
4										
5										
6										
7										
8										
9										
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47	<u></u>	 		 	 	 				j
48										

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

 00 = Not Used
 05 = Trouble Day/Alarm Night
 10 = Interior w/Delay
 24 = Silent Burglary

 01 = Entry/Exit#1
 06 = 24 Hr Silent
 12 = Monitor Zone
 77 = Keyswitch

 02 = Entry/Exit#2
 07 = 24 Hr Audible
 14 = Carbon Monoxide
 90-93 = Configurable

03 = Perimeter 08 = 24 Hr Aux 16 = Fire w/Verification 04 = Interior Follower 09 = Fire 23 = No Alarm Response

Choices for System Operation are:

 20 = Arming-Stay
 38 = Chime
 52 = Kissoff

 21 = Arming-Away
 39 = Any Fire Alarm
 54 = Fire Zone Reset

 22 = Disarming (Code + OFF)
 40 = Bypassing
 58 = Duress

 31 = End of Exit Time
 41 = **AC Power Failure
 60 = AAV Trigger

 32 = Start of Entry Time
 42 = **System Battery Low
 66 = Function key†

33 = Any Burglary Alarm
36 = **At Bell Timeout***

43 = Communication Failure
68 = TELCO Line Fault

78 = keyswitch red LED††† 79 = keyswitch green LED††† Note: In normal operation mode:

Code + # + 7 + NN Key Entry **starts** Device Code + # + 8 + NN Key Entry **stops** Device

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

*** Or at Disarming, whichever occurs earlier.

† Use *57 Menu mode to assign the function key.

†† Duration is set in program field *177.

††† Device action not used for these choices.

Zone Type Definitions

Type 00 Zone Not Used
Type 01 Entry/Exit Burglary #1

Use this zone type if the zone is not used.

Type 01 • Assign to zones that are used for primary entry and exit.

- Provides entry delay if the control is armed in the Away or Stay modes.
- No entry delay is provided when the panel is armed in the Instant mode.
- Entry delay #1 is programmable from 0 to 99 seconds for each partition.
- Exit delay begins whenever the control is armed, regardless of the arming mode selected, and is independently programmable from 0 to 99 seconds (field *34).

Type 02 Entry/Exit Burglary #2

- Assign to zones that are used for entry and exit and require more time than the primary entry/exit point.
- Provides a secondary entry delay, in same manner as entry delay #1.
- Entry delay #2 is programmable from 0 to 99 seconds for each partition.
- Exit delay is same as described for Type 01.

Type 03 Perimeter Burglary

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

Type 04 Interior Follower

- Assign to a zone covering an area such as a foyer, lobby, or hallway through which one must pass upon entry (to and from the keypad).
- Provides a delayed alarm (using the programmed entry/exit time) if the entry/exit zone is faulted first.
 Otherwise this zone type gives an instant alarm.
- · Active when the panel is armed in the Away mode.
- Bypassed automatically when the panel is armed in the Stay or Instant modes.

Type 05 Trouble by Day/ Alarm by Night

- Assign to a zone that contains a foil-protected door or window (such as in a store), or to a zone covering a sensitive area such as a stock room, drug supply room, etc.
- Can also be used on a sensor or contact in an area where immediate notification of an entry is desired.
- Provides an instant alarm if faulted when armed in the Away, Stay, or Instant (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).

Type 06 24-hour Silent Alarm

- Usually assigned to a zone containing an emergency button.
- Sends a report to the central station but provides no keypad display or sounding.

Type 07 24-hour Audible Alarm

- Assign to a zone that has an emergency button.
- Sends a report to the central station, and provides an alarm sound at the keypad, and an audible external alarm.

Type 08 24-hour Auxiliary Alarm

- Assign to a zone containing an emergency button, or to a zone containing monitoring devices such as water or temperature sensors.
- Sends a report to the central station and provides an alarm sound at the keypad. (No bell output is provided.)

Type 09 Fire

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

Note: Hardwired zone 1 should be used with 2-wire smoke detectors; zones 2-8 can be used with 4-wire smoke detectors; any wireless zone can be used as a fire zone.

Type 10 Interior w/Delay

- Provides entry delay (using the programmed entry time), if tripped when the panel is armed in the Away mode.
- Entry Delay begins whenever sensors in this zone are violated, regardless of whether or not an entry/exit delay zone was tripped first.
- Bypassed when the panel is armed in the Stay or Instant modes.

Type 12 Monitor Zone

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

Type 14 Carbon Monoxide

- Assigned to any zone with a carbon monoxide detector.
- The bell output will pulse when this zone type is alarmed.
- · Always active and cannot be bypassed.

Type 16 Fire w/Verification

- Provides a fire alarm when zone is shorted, but only after alarm verified.
- System verifies alarm by resetting zones for 12 seconds after short is detected. A subsequent short circuit within 90 seconds triggers fire alarm.
- Provides a trouble response when zone is open.
- UL: may not be used on zone 1.

Type 20 Arm-Stav

- Arms the system in Stay mode when the zone is activated.
- Pushbutton units send the user number to the central station when arming or disarming.
- User code for button must be assigned.

• Arms the system in Away mode when the zone is activated. Arm-Away · Pushbutton units send the user number to the central station when arming or disarming. · User code for button must be assigned. Type 22 • Disarms the system when the zone is activated. Disarm · User code for button must be assigned. Type 23* • Can be used on a zone when an output relay action is desired, but with no accompanying alarm (e.g., lobby door access). No Alarm Response Type 24 • Usually assigned to all sensors or contacts on exterior doors and windows where bells and/or sirens are NOT desired. Silent Burglary · Provides an instant alarm, with NO audible indication at any keypad or external sounder, if the zone is faulted when the system is armed in the Away, Stay, or Instant, modes. · A report is sent to the central station. **Type 77** · Assign to zone wired to a keyswitch. Keyswitch Types 90-93 • These zone types can be programmed for various custom responses. See data fields *182-*185.

Installer Defined UL: Zone types 90-93 may not be used as fire or burglar zones in fire or UL burglar alarm installations.

*The system can still be armed when these zone types are in a faulted condition.

Schedules (installer code + [#] + [6] [4]; master code can only access schedules 01-16 for FA168C, 01-04 for FA148CP, and events

00-07 for both controls; FA148CP supports up to 8 schedules, FA168C supports up to 32 schedules)

No.	Event	Device No.	Group No.	Partition	Start Time/	Stop Time/	Repeat	Random
	(see list below)	for "01" events: enter 01-18	for "02" events: enter 1-8	for "04-06" events: enter 1, 2, or 3	Days	Days	(yes/no)	(yes/no)
00								
01								
02								
03								
04								
05								
06								
07								
08								
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10								
11								
12								
13								
14								
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16			1					
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18								
19								
20								
21								
22								
22 23								
24	-							
25								
26	-			+				†
27	-		†	†				†
28	-			+		-		†
- 9 29			ļ					
2 9 30	-		ļ					
30 31	-		·			-		<u> </u>
32	-	.	·			-		
J <u>L</u>		. L	1	1	J		.	1

Events: Master/Installer Installer Installer Only

01 = device on/off 05 = forced AWAY arm
02 = user access 06 = auto disarm 11 = peridoic test report
03 = latch key report 07 = display "reminder"

04 = forced STAY arm

ALPHA VOCABULARY LIST (For Entering Zone Descriptors)

000	(Word Space)	• 057	DOOR			- L -		– R –			– V –
	– A –	• 059	DOWN	•	106	LAUNDRY	155	RADIO		209	VALVE
001	AIR	• 060	DOWNSTAIRS	•	107	LEFT	• 156	REAR		210	VAULT
002	ALARM	061	DRAWER		108	LEVEL	157	RECREATION		212	VOLTAGE
004	ALLEY	• 062	DRIVEWAY	•	109	LIBRARY	159	REFRIGERATION			– W –
005	AMBUSH	• 064	DUCT	•	110	LIGHT	160	RF		213	WALL
006	AREA	• • • • • • • • • • • • • • • • • • • •	-E-		111	LINE	• 161	RIGHT		214	WAREHOUSE
007	APARTMENT	. 005		•	113	LIVING	• 162	ROOM		216	WEST
009	ATTIC	• 065	EAST	•	114	LOADING	163	ROOF		217	WINDOW
010	AUDIO	066	ELECTRIC		115	LOCK		-S-		219	WING
010		067	EMERGENCY		116	LOOP	164	SAFE	•	220	WIRELESS
	– B –	068	ENTRY		117	LOW	_			220	
-	BABY	• 069	EQUIPMENT	•	118	LOWER	165	SCREEN			– X –
013	BACK	• 071	EXIT	_	110		166	SENSOR		222	XMITTER
014	BAR	072	EXTERIOR			– M –	• 167	SERVICE			– Y –
016	BASEMENT		– F –	•	119	MACHINE	• 168	SHED		223	YARD
017	BATHROOM	• 073	FACTORY		121	MAIDS	169	SHOCK			– Z –
018	BED	075	FAMILY		122	MAIN	• 170	SHOP		224	ZONE (No.)
019	BEDROOM	• 076	FATHERS	•	123	MASTER	171	SHORT		225	ZONE
020	BELL	• 077	FENCE	•	125	MEDICAL	• 173	SIDE		226	0
021	BLOWER	• 079	FIRE		126	MEDICINE	174	SKYLIGHT		227	1
022	BOILER	• 080	FLOOR		128	MONEY	175	SLIDING	•	228	1 1ST
023	BOTTOM	081	FLOW		129	MONITOR	• 176	SMOKE		229	2
025	BREAK	082	FOIL	•	130	MOTHERS	• 178	SONS	•	-	
026	BUILDING	• 083	FOYER	•	131	MOTION	• 179	SOUTH	•	230	2ND
	- C -	084	FREEZER		132	MOTOR	180	SPRINKLER		231	3
020	_	• 085	FRONT			– N –	• 182	STATION		232	3RD
028	CABINET	- 005		•	134	NORTH	184	STORE	•	233	4
029	CALL		- G -		135	NURSERY	• 185	STORAGE	•	234	4TH
030	CAMERA	• 089	GARAGE			-0-	186	STORY		235	5
031	CAR	• 090	GAS		136	OFFICE	190	SUPERVISED	•	236	5TH
033	CASH	091	GATE				191	SUPERVISION	•	237	6
034	CCTV	• 092	GLASS	•	138	OPENING	192	SWIMMING	•	238	6TH
035	CEILING	093	GUEST		139	OPENING	193	SWITCH	•	239	7
036	CELLAR	094	GUN	•	140	OUTSIDE		-T-	•	240	7TH
037	CENTRAL		– H –		142	OVERHEAD	194	TAMPER	•	241	8
038	CIRCUIT	• 095	HALL			– P –	194	TELCO	•	242	8TH
040	CLOSED	• 096	HEAT		143	PAINTING	196	TELEPHONE	•	243	9
046	COMPUTER	098	HOLDUP	•	144	PANIC	_		•	244	9TH
047	CONTACT	099	HOUSE		145	PASSIVE	• 199	THERMOSTAT			
	– D –	100	INFRARED	•	146	PATIO	200	THERMOSTAT		245	Custom Word #
048	DAUGHTERS	• 101	INSIDE		147	PERIMETER	• 201	TOOL		246	Custom Word #
049	DELAYED	102	INTERIOR	•	148	PHONE	202	TRANSMITTER		247	Custom Word #
050	DEN	103	INTRUSION		150	POINT		– U –		248	Custom Word #
051	DESK	100			151	POLICE	• 205	UP		249	Custom Word #
052	DETECTOR	404	- J -		152	POOL	• 206	UPPER		250	Custom Word #
053	DINING	104	JEWELRY	•	153	POWER	• 207	UPSTAIRS		251	Custom Word #
054	DISCRIMINATOR		– K –			=	• 208	UTILITY		252	Custom Word #
055	DISPLAY	• 105	KITCHEN							253	Custom Word #
(7,);)	DIOFLAI									254	Custom Word #

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

CHARACTER (ASCII) CHART (For Adding Custom Words)

			•		(2.10.011)	, • ,		9	• • • • • • • • • • • • • • • • • • • •	,			
32 (sp	oace)	41)	50	2	59	;	68	D	77	M	87	W
33	!	42	*	51	3	60	<	69	Ε	78	Ν	88	Χ
34	"	43	+	52	4	61	=	70	F	79	0	89	Υ
35	#	44	,	53	5	62	>	71	G	80	Р	90	Z
36	\$	45	_	54	6	63	?	72	Н	81	Q		
37	%	46		55	7	64	@	73	I	82	R		
38	&	47	/	56	8	65	Α	74	J	83	S		
39	•	48	0	57	9	66	В	75	K	84	Т		
40	(49	1	58	:	67	С	76	L	85	U		
										86	V		

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. They do not send restore or check-in signals. They will indicate a low battery condition when tested or activated normally. The transmitter may be carried off-premises.

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

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

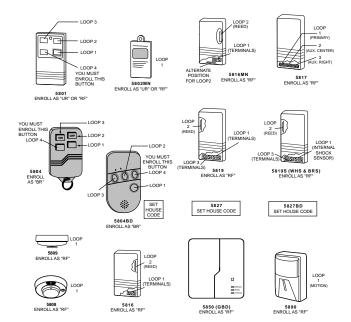


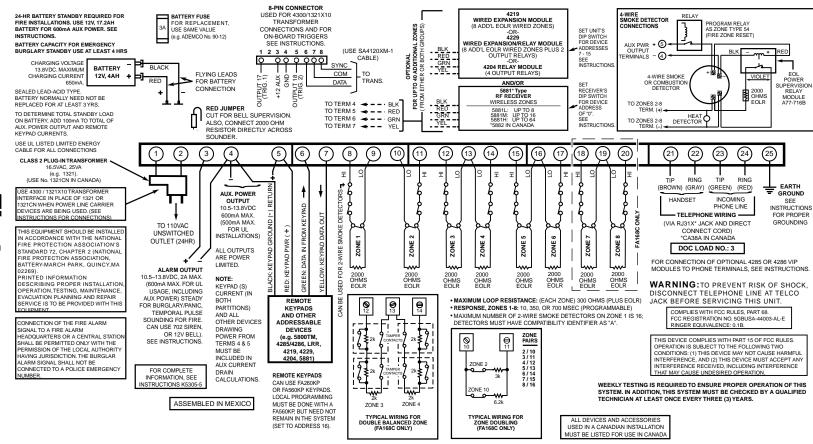
Table of Device Addresses

Address	Report ^{††}	Device	Programmed by
00	100	RF Receiver	*56 zone programming: input device type entry
03	103	Long Range Radio	automatic if output to long range radio field *29 enabled
04	104	4286 Voice Module	automatic if phone module access code field *28 enabled
07	107	Zone Expanders (4219/4229): module 1 zones 09 - 16	*56 zone programming: input device type entry, then: • automatic if zone no. 9-16 entered as AW type or relay assigned
08	108	module 2 zones 17 - 24	automatic if zone no. 17-24 entered as AW type or relay assigned
09 [†]	109	module 3 zones 25 - 32	• automatic if zone no. 25-32 entered as AW type or relay assigned
10 [†]	110	module 4 zones 33 - 40	• automatic if zone no. 33-40 entered as AW type or relay assigned
11 [†]	111	module 5 zones 41 - 48	automatic if zone no. 41-48 entered as AW type or relay assigned
		Relay Modules (4204):	*79 output device programming: device address prompt:
12	112	module 1	entered at device address prompt
13	113	module 2	entered at device address prompt
14 [†]	114	module 3	entered at device address prompt
15 [†]	115	module 4	entered at device address prompt
		Keypads:	data field programming as listed below:
16	n/a	keypad 1	always enabled for partition 1, all sounds enabled.
17	n/a	keypad 2	data field *190
18	n/a	keypad 3	data field *191
19	n/a	keypad 4	data field *192
20	n/a	keypad 5	data field *193
21	n/a	keypad 6	data field *194
22	n/a	keypad 7	data field *195
23	n/a	keypad 8	data field *196
28	n/a	5800TM Module	automatic

[†] These module addresses apply to FA168C only.

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





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