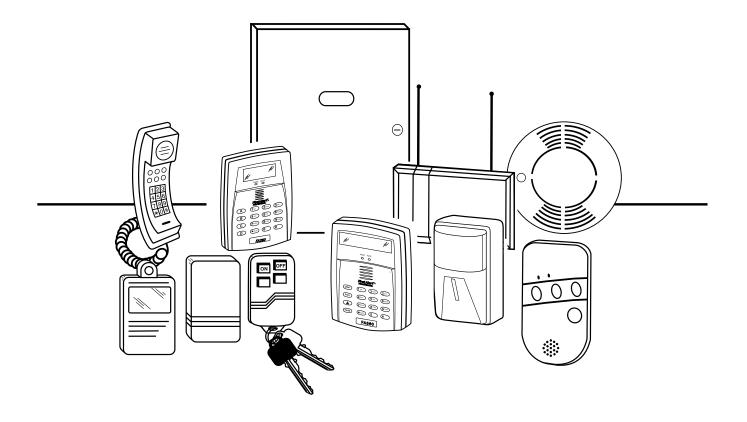
FA168C / FA168C-CN FA148CP / FA148CP-CN

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.
- 2. 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 last entry for a field is entered, the keypad beeps three times and automatically displays the next data field in sequence. 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 fields *41, *42), enter the desired data, 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**, **dl** (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).

Field	Function	Data Entries	Programmable Values
SYST	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	[70,70] 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"
Enter t	ER PROGRAMMING (*40 – *42) the number of digits shown. Do not fill unused solum digits entered, exit the field by pressing [*]		; #+12 for '#'; #+13 for a 2-second pause. If fewer than the
* 4n	PABX ACCESS CODE		
~ 40	TABA AGGEGG GODE	Enter up to 6 digits. To clea	r entries from field, press ★40★ .
.	PRIMARY PURNET.		
* 41	PRIMARY PHONE No. Enter up to 20 digi	ts. To clear entries, press *4′	
¥ 40	SECOND DUONE No.		
~ 42	SECOND PHONE No.	ts. To clear entries, press ⊁42	
	=:10: ap to 20 digi		

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.	[F	FFF]	See box above for entries. To cle from field, press *43*.	ear entries
* 44	PARTITION 1 SECONDARY SUBS	S. ACCT. No.	[F	FFF]	See box above for entries. To cle from field, press *44*.	ear entries
* 45	PARTITION 2 PRIMARY SUBS. AC	CCT. No.		[FFFF]	See box above for entries. To cle from field, press *45*.	ear entries
* 46	PARTITION 2 SECONDARY SUBS	S. ACCT. No.	[]]]]]][[FFF]	See box above for entries. To cle from field, press *46*.	ear entries
*47	PHONE SYSTEM SELECT		[1]		If Cent. Sta. IS NOT on a WATS 0=Pulse Dial; 1=Tone Dial; if Cent. Sta. IS on a WATS line: 2 = Pulse Dial; 3 = Tone Dial	
*48	REPORT FORMAT		primary seco] [70] ondary	0 = 3+1, 4+1 ADEMCO L/S STAN 1 = 3+1, 4+1 RADIONICS STAN 2 = 4+2 ADEMCO L/S STANDAR 3 = 4+2 RADIONICS STANDAR 6 = 4+2 ADEMCO EXPRESS 7 = ADEMCO CONTACT ID® R 8 = 3+1, 4+1 ADEMCO L/S EXP 9 = 3+1, 4+1 RADIONICS EXPA	IDARD RD ID EPORTING 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, Test 3 = Alarms, Restore, Cancel	Others Open/Close Test All
					4 = All except Open/Close, Test 5 = All	
⊁50	15 SEC DIALER DELAY (BURG)		[0]		0 = no UL: must be "0"; 1 = yes	
⊁53	SESCOA/RADIONICS SELECT		[0]		0 = Radionics (0-9, B-F) 1 = SESCOA (0-9 only reportin Select "0" for all other formats.	g)
★54	DYNAMIC SIGNALING DELAY		[0]		Delay selectable from 0 to 225 s increments. 0 = no delay (both signals sent), 2 = 30 secs, etc. UL: must be "t	1 = 15 secs,
*55	DYNAMIC SIGNALING PRIORITY		[0]		0 = Primary Dialer first; 1 = Long first.	g Range Radi
For 3 A 0 For E A 0 For A	ROGRAM SYSTEM STATUS, & RESTO +1 or 4+1 Standard Format: Enter a code in the (not #+10) in the first box will disable a report. A xpanded 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 seconoxes (1st and 2nd digits) appanded message for that (other than 0) in the first	0, #+11 for B, #+1 and box will result in for 1–9, 0, or B–F at report. A 0 (not to box, to enable zo	2 for C, #+13 for automatic adv , as described a #+10) in <i>both</i> be one to report (en	rance to the next field. above. oxes will disable the report.	
	EM STATUS REPORT CODES (*5	9–⊁ 68)				
⊁59	EXIT ERROR REPORT CODE	[0]	See box al			
*60 *61	TROUBLE REPORT CODE	[00]				
⊁61	BYPASS REPORT CODE	[00]	-			
*62 *63	AC LOSS REPORT CODE LOW BAT REPORT CODE	00]	-			
★64	TEST REPORT CODE	[00]	-		heduling mode to set periodic test	reports
★65	OPEN REPORT CODE		[0,0,0]	See box at	,	. 5001.01
⊁66	ARM AWAY/STAY RPT CODE	Part. 1 Part. Away Stay Av	2 Common	Away Stay	0,0,0,0,0,0] See box above.	
		Part. 1	Part. 2	Common		

*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.
* 76	TEST RESTORE RPT CODE	[00]	UL: must be enabled if wireless devices are used See box on previous page.
OUTE	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 #+14 = 12 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	[0]	0 = 15 seconds 6 = 2-1/2 min #+12 = 8 min
	(used with Configurable Zone Types "digit 6")		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	[3]	0 = None; 1 = Alarm/Alarm Restore 2 = Trouble/Trouble Restore:
		NOTE O	4 = Bypass/Bypass Restore;
		NOTE: System messages are logged when any non-zero	8 = Open/Close. <i>Example:</i> To select "Alarm/Alarm Restore", and "Open/Close", enter 9 (1 + 8); To select
.4		selection is made.	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;
	UL: see Inst. Instructions for requirements		#+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.
*93	No. OF REPORTS IN ARMED PERIOD PER ZONE (Swinger Suppression)	[0]	0 = Unlimited Reports; 1 = 1 report; 2 = 2 reports UL: must be "0"

DOWI	NLOAD INFORMATION (*94	, ⊁95)					
⊁94	DOWNLOAD PHONE No.						
		Enter up to 20	digits, 0-9; #+1	1 for ' * '; #+1	2 for '#'; #+13 for a	2-second pause	. Do not fill unused
		spaces. If few	er than 20 digits	, exit field by	pressing ★ (and pr	ess 95, if enterin	g next field). To clear chnician is at the site.
¥05	DINO COLINIT FOR DOMAIN		_	. OL. downloa		•	
*95	RING COUNT FOR DOWNL	OADING	[15]		0 = Disable Station 1–14 = number of		0 =10, # +11 =11,
					# +12 =12, # +13	=13, # +14 =14)	• •
					15 = answering m		· +15 =15). 285/4286 Phone Module.
DAGE	D ODTIONS (*400 *470)				NOTE. DO NOT en	iter o il usilig 42	.03/4200 i fiorie Module.
	R OPTIONS (*160-*172)			1 1 1			
~160	PAGER 1 PHONE No.						
		Enter up to 2	0 digits. 0–9; #-	-11 = ' * '; #+1	2 = '#'; #+13 = 2-se	econd pause.	
* 161	PAGER 1 CHARACTERS						
					naracters, up to 16 (
* 162	PAGER 1 REPORTING OPT	TIONS					following options:
102	TAGENT REFORMING OF I	10110	ني: ني:لــا		0 = no reports se	ent	Tollowing optionio.
			Part. 1 Part. 2 [0,0,0]	common	1 = Open/closes 4 = All alarms ar		
			[0,0,0]				n/closes for all users
					12 = Alarms / trou	ıbles for zones ei	ntered in zone list 9
						ibles for zones ei oses for all users	ntered in zone list 9,
* 163	PAGER 2 PHONE No.						
		Enter up to 2	0 digits. 0–9; #+	-11 = ' ⊁ '; #+1	2 = '#'; #+13 = 2-se	econd pause.	
* 164	PAGER 2 CHARACTERS			1 1 1 1			
			Enter the opti	onal prefix ch	aracters, up to 16	digits.	
					; #+13 = 2-second		
* 165	PAGER 2 REPORTING OPT	TIONS		[0 0 0]	See field *162 for	reporting options	s. Select for each
			Part. 1 Part. 2		partition (use zon	e list 10 if using o	options 12 or 13).
V 400	DAGED O DUONE N	;;;;	rait. 1 Fait. 2				
~166	PAGER 3 PHONE No.	Enter up to 2		_]][-11 = '*'· #+1	 2 = '#'; #+13 = 2-se	J_l_: econd pause	
¥167	PAGER 3 CHARACTERS	o. up to _			_		
107	PAGER 3 CHARACTERS		Enter the opti	onal prefix ch	IJL_L_IJ aracters, up to 16 (lL digits.	
					; #+13 = 2-second	•	
* 168	PAGER 3 REPORTING OPT	TIONS	1	0.0.0]	See field *162 for	reporting options	s. Select for each
			Part. 1 Part. 2		partition (use zon		
*169	PAGER 4 PHONE No.	Enter up to 2	_	_	_	cond pause.	
*170	PAGER 4 CHARACTERS		!				
	THOUR TOTAL OF ERO		Enter the opti	onal prefix ch	naracters, up to 16	digits.	
			0-9; #+11 = '	* '; #+12 = '#'	; #+13 = 2-second	pause.	
*171	PAGER 4 REPORTING OPT	TIONS	Part. 1 Part. 2		See field *162 for partition (use zon		
*172	PAGER DELAY OPTION FO	R ALARMS	[] [3]		0 = none, 1 = 1 m	ninute, 2 = 2 min	utes, 3 = 3 minutes
			[3]		This delay is for A	ALL pagers in the	system.
					NOTE: The delay		or new alarms delay is in progress.
MICC	FLI ANEQUE EVETEM FIFI	DC /*474 *40	4.		occurring write at	ir existing pager t	delay is in progress.
	ELLANEOUS SYSTEM FIEL	=	' <i>)</i>		0 4: 4 0	Nama Marair	
*174	CLEAN ME REPORTING OF (for ESL smoke detectors)	PHONS	[0]		0 = disable; 1 = C Note: If Clean M field ★56 program	e is enabled, you	must enter "3" in
¥177	DEVICE DURATION 1, 2				0 = 15 seconds	6 = 2-1/2 min	#+11 = 7 min
^ 1//	(used in *80 Menu mode-Device	Actions 5/6)		0] [0]	1 = 30 seconds	7 = 3 min	#+12 = 8 min
		,	1 2		2 = 45 seconds	8 = 4 min 9 = 5 min	#+13 = 10 min
					3 = 60 seconds 4 = 90 seconds	9 = 5 min #+10 = 6 min	#+14 = 12 min #+15 = 15 min
4 4 5 4	50/00 LIEDTT 4.0 0000 :=	ON			5 = 2 minutes		
* 181	50/60 HERTZ AC OPERATI	ON	[0]		0 = 60 Hz; 1 = 50	MZ	

CONFIGURABLE ZONE TYPE OF HONS (102-105)	
*182 CONFIGURABLE ZONE TYPE 90	1 2 3 4	5 6 7 8 9 10
	next page. Each entry is the (0-9, #+10=10, #+11=11, #+	for each entry, 1-10, based on the charts provided on esum of the values of its selected options -12=12, #+13=13, #+14=14, #+15=15).
VACC TONE TYPE OF REPORT CORES		
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 exam of the values of its selected options 12=12, #+13=13, #+14=14, #+15=15). So 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 ar	re set by the factory and cannot be changed.)
NOTE: Each keypad must be assigned a unique unpredictable results.	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 note 5 for RF zones)		
Response when Intact EOL RF zone normal	system disarme Open <i>RF zone N/A</i>	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 no	ote 5 for RF zones)	ENTRY 4 (see r	note 5 for RF zones)	
Intact EOL	armed STAY and Open	Shorted	Byp. when disarmed	Byp. when armed
RF zone normal	RF zone N/A	RF zn off-normal		
0 = normal	0 = normal	0 = normal	0 = no	0 = no
1 = alarm	4 = alarm	1 = alarm	4 = yes	8 = yes
2 = trouble	8 = trouble	2 = trouble		
3 = fault	12 = fault	3 = fault		
Entry $3 = EOL +$	Open	Entry 4 = Short -	⊦ byp. disarmed +	byp. armed

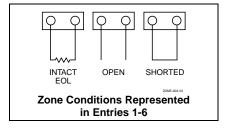
ENTRY 5 (see n	ote 5 for RF zones)	ENTRY 6(see no	ote 5 for RF zones)	
Response when armed AWAY and zone is: Intact EOL Open Shorted RF zone normal RF zone N/A RF zn off-no			Dial Delay (see field *50)	Fault Delay (see field *87)
0 = normal	0 = normal	0 = normal	0 = no	0 = no
1 = alarm	4 = alarm	1 = 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	0 = no 4 = yes see fields *32,	0 = no 8 = yes see zone type	0 = none 1 = periodic beep 2 = trouble	0 = no 4 = yes
and keypad 3 = pulsing bell and keypad	*33	09; see note 4	beeps	
Entry 9 = alarm s	ounds + bell time	out + fire zone	Entry 10 = troub	le sounds + chime

Е	Entries for Fields *182 and *184												
Entry	Zone Type 90 (field *182)	Zone Type 91 (field *184)											
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													

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]

<u> </u>	12 - 1000	D		I	1 (1 / 1 1 -	5001 3up	ports up to 52 2011cs. 1 0, 5 0	1) [uelault SHOWH III blackets]
	Zn Type			Input Type	Loop		Serial No.	Location
1	[09]	[1]		[HW]		[1]		
2	[01]	[1]		[HW]		[1]		
3	[03]	[1]		[HW]		[1]		
4	[03]	[1]		[HW]		[1]		
5	[03]	[1]		[HW]		[1]		
6	[03]	[1]		[HW]		[1]		
7	[03]			[HW]		[1]		!
		L'Y						
8	[03]	[1]	<u> </u>	[HW]	! !	[1]	! }	!
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
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21		<u> </u>			<u></u>			
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27								
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29								
30								
31								
32								
33								
34								
35	i	i	1	1	i		1	1
26							i	L
36 37	¦	;	¦	¦	;		<u> </u>	¦
37		J	, J	, J	J	!	 	, L
38	1	!	1	:	1		1	! !
39	!	! !	! !	! !	! !		!	!
40				i			ļ	}
	<u>;</u>	i	i		i			.
41	ļ	<u>;</u>	i		<u>;</u>		i 	i
42 43	1	1 1	1	:	1		1 	1 1
43	,							
	;			;		:		L
44	ļ			!	!			<u> </u>
45	ļ	!	! !	! !	! !		! !	, }
46		<u>:</u>		, !	<u>:</u>		1	
47		·						~
48	,	j	j	i	i		j	;
	 	F.4.7		1001			·	
49		[1]		[BR]				
50		[1]	<u> </u>	[BR]	<u></u>			
51		[1]		[BR]				
52		[1]		[BR]	t			
	-				 			
53		[1]		[BR]				
54		[1]		[BR]				
55		[1]		[BR]				
56				[BR]	 			
	<u> </u>	[1]			 			
57		[1]	, J	[BR]		! -	, 4	
58	• • • • • • • • • • • • • •	[1]	,	[BR]			1	
59		[1]		[BR]	;		*i	р I
	}	{ <u> </u> }		[57]			 	}
60	ļ	[1]	! !	[BR]	! !	 	! !	ı L
61	1 1	[1]	1	[BR]	!		1	1
62	!	[1]	 !	[BR]		! !	!	!
63	<u> </u>	[1]	{	[BR]			<u> </u>	<u> </u>
		<u>-</u>	-					
64	<u>i</u>	[1]	<u>i</u>	[BR]				
95	[00]	<u>L</u>	<u> </u>	N/A			N/A	keypad [1] / [*]
96	[00]			N/A	N/A		N/A	keypad [3] / [#]
99	[00]	1		N/A			N/A	keypad [3] / [#]
99	i iuni			ı IV/A	I IN/A	IIV/A	LIN/A	IKBV090 IXI / IXI

Reserved Zones

92 = Duress report enable/disable

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

^{99 [06]} 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)

	OUTPUT	ГТҮРЕ		
	Rel	ay	X10	
Output	Module	Pos	Unit	
No.	Addr.	(1-4)	No.	Description
01				
02				
03				
04				
05				
06				
07				
08				

OUTPUT TYPE (09-16 apply to FA168C only)											
	OUTPU	IITPE		pply to FAT68C only)							
	Rel	ay	X10								
Output			Unit								
No.	Addr.	(1-4)	No.	Description							
09			!								
10) · ·								
11			i · · · · · · · · · · · · ·								
12			; ;								
13											
14			! !								
15											
16			i !								
17	On-Boar	d Trigge	r 1								
18	On-Boar	d Trigge	r 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	J. Tallip	ctivation Typ	o and Datai	ı	Partition	Event (for zone	Action	Output	Device	
	Activated by	Zono Liet	Zone Type	Zone No	Number	By Zone List	By Zone No.	0 = off	Number	Type
Number	0=delete	(ZL)		(ZN)	(P)	by Zone List	by Zone No.	1 = close 2 secs	Number	Type
(V20P=1-48)		(ZL) 1-8 = list	(ZT) (see table		(if using ZT trig)	0 = restore	0 = restore	2 = stay closed	FA168C:	R = relay
(V15P=1-24)	2-zn typo	1-0 = 1151	below)	01-64	0 = any	1 = alarm	1 = airm/fit/trbi	3 = pulse	1-18	T = trigger
(VISF=1-24)	3=zn type		below)	01-04	1 = partition 1	2 = fault	i = airiii/ii/ii/ii	4 = toggle	1-10	X = X10
	3=211 110.				2 = partition 2	3 = trouble		5 = duration 1††	EA149CD:	X = X10
					3 = common	3 = trouble		6 = duration 2 _{††}	1_0 17 10	
1					0 - 00111111011			0 = duration 2	1-0, 17, 10	
2										
3										
4										
5										
7										
8										
9										
10										
11										
12										
13										
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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†

32 = Start of Entry Time 42 = **System Battery Low 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 Us	ed

Use this zone type if the zone is not used.

Type 01	Assign to zones that are used for primary entry and exit.
Entry/Exit Burglary #1	 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	Assign to zones that are used for entry and exit and require more time than the primary entry/exit point.
Entry/Exit Burglary #2	 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	 Assign to all sensors or contacts on exterior doors and windows.
Perimeter Burglary	 Provides an instant alarm if the zone is faulted when the panel is armed in the Away, Stay, or Instant modes.
Type 04	Assign to a zone covering an area such as a foyer, lobby, or hallway through which one must pass upon
Interior Follower	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	 Assign to a zone that contains a foil-protected door or window (such as in a store), or to a zone covering
Trouble by Day/	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.
Alarm by Night	 Can also be used on a sensor of contact in an area where infinediate 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	Usually assigned to a zone containing an emergency button.
24-hour Silent Alarm	 Sends a report to the central station but provides no keypad display or sounding.
Type 07	Assign to a zone that has an emergency button.
24-hour Audible Alarm	• Sends a report to the central station, and provides an alarm sound at the keypad, and an audible external
	alarm.
Type 08	Assign to a zone containing an emergency button, or to a zone containing monitoring devices such as
24-hour	 water or temperature sensors. Sends a report to the central station and provides an alarm sound at the keypad. (No bell output is
Auxiliary Alarm	provided.)
Type 09	Provides a fire alarm on short circuit and a trouble condition on open circuit. A fire alarm produces a
Fire	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
Type 10	smoke detectors; any wireless zone can be used as a fire zone. • Provides entry delay (using the programmed entry time), if tripped when the panel is armed in the Away
Interior w/Delay	mode.
interior wibelay	• 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	Works as a dynamic monitor of a zone fault/trouble. In the case of a short/open, the message, "ALARM-
Monitor Zone	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-Stay

- 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. • Pushbutton units send the user number to the central station when arming or disarming. Arm-Away · User code for button must be assigned. • Disarms the system when the zone is activated. Type 22 Disarm · User code for button must be assigned. • Can be used on a zone when an output relay action is desired, but with no accompanying alarm (e.g., Type 23* 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. · Assign to zone wired to a keyswitch. **Type 77** Keyswitch

Types 90-93 **Installer Defined**

• These zone types can be programmed for various custom responses. See data fields *182-*185. 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 (see list below)	Device No. for "01" events:	Group No. for "02" events:	Partition for "04-06" events:	Start Time/ Davs	Stop Time/ Days	Repeat (yes/no)	Random (yes/no)
	(occ not bolow)	enter 01-18	enter 1-8	enter 1, 2, or 3	Juje	Jujo	(900/110)	(300/110)
00								
01								
02								
03								
04								
05								
06								
07								
08								
09		L						
10								
11								
12								
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14								
15								
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25			†					
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32		.	ļ					ļ
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Events: Master/Installer

01 = device on/off

02 = user access

03 = latch key report

04 = forced STAY arm

05 = forced AWAY arm

06 = auto disarm

07 = display "reminder"

Installer Only

10 = display custom words 8-10

11 = peridoic test report

ALPHA VOCABULARY LIST (For Entering Zone Descriptors)

No					
■ 001 AIR	,		– R –		– V –
• 002 ALARM 061 DRAWER 108 LEVEL 157 RECREATION 212 VOLT 004 ALLEY • 062 DRIVEWAY • 109 LIBRARY 159 REFRIGERATION 212 VOLT 005 AMBUSH • 064 DUCT • 110 LIBRAY 159 REFRIGERATION 213 WALL • 006 AREA − E − • 111 LINE • 161 RIGHT 214 WARE • 007 APARTMENT • 065 EAST • 113 LIVING • 162 ROOM • 216 WARE • 009 ATTIC • 065 EAST • 113 LOODING • 163 ROOF • 217 WING • 012 BABY • 069 EMERGENCY • 116 LOOP • 164 SAFE 220 WIRE • 012 BABY • 069 EQUIPMENT • 117 LOW • 165 SERVICE • X - • 013 BACK • 071 EXIT • 118 LOWER • 166 SERVICE • X - • 016 BASEMENT − F - • 119 MACHINE • 168 SHED • 222 YARE • 017 BATHROOM • 075 FAMILY • 122 MAIN • 170 SHOP • 224 ZONE • 020 BELL • 077 FENCE • 123 MACHINE • 174 SKYLIGHT • 226 O • 021 BLOWER • 079 FIRE • 128 MONEY <td>– A –</td> <td></td> <td></td> <td></td> <td></td>	– A –				
004 ALLEY	AIR		• 156 REAR		VAULT
005 AMBUSH 064 DUCT 110 LIGHT 160 RF 213 WALL	ALARM	061 DRAWER 108 LEVEL	157 RECREATION	212	VOLTAGE
- 006	ALLEY	• 062 DRIVEWAY • 109 LIBRARY	159 REFRIGERATI	ON	– W –
• 007	AMBUSH	• 064 DUCT • 110 LIGHT	160 RF	213	WALL
007 APARTMENT 065 EAST 113 LIVING 162 ROOM 216 WEST	AREA	_F_ 111 LINE	• 161 RIGHT	214	WAREHOUSE
- 009 ATTIC	APARTMEN	- 442 LIVING	• 162 ROOM	• 216	WEST
OTO AUDIO		- 444 LOADING	163 ROOF	• 217	WINDOW
- B - 068 ENTRY 116 LOOP 164 SAFE 220 WIRE - 012 BABY 069 EQUIPMENT 117 LOW 165 SCREEN - X - X - - 014 BAR 072 EXTERIOR -M - 167 SERVICE -Y - - 016 BASEMENT -F - 119 MACHINE 168 SHED 223 YARE - 017 BATHROOM 073 FACTORY 121 MAIDS 169 SHOCK -Z - - 018 BED 075 FAMILY 122 MAIN 170 SHOP 224 ZONE - 019 BEDROOM 076 FATHERS 123 MASTER 171 SHORT 225 ZONE - 021 BLU 077 FENCE 125 MEDICAL 173 SIDE 225 ZONE - 022 BOILER 080 FLOOR 128 MONEY 175 SIDE 225 ZONE - 021 BLOWER 079 FIRE 126 MEDICINE 174 SKYLIGHT 222 ZONE - 022 BOILER 080 FLOOR 128 MONEY 175 SUDING 227 1 - 022 BOILER 080 FLOOR 128 MONEY 175 SONOS 228 IST - 023 BOTTOM 081 FLOW 129 MONITOR 176 SMOKE 228 IST - 026 BUILDING 083 FOYER 131 MOTION 179 SOUTH 230 ZND - 026 BUILDING 083 FOYER 131 MOTION 179 SOUTH 230 ZND - 028 CABINET 085 FRONT -N 184 STORE 233 3 4 - 029 CALL -G - - 030 CAMERA 089 GARAGE 135 NURSERY 185 STORAGE 233 4 - 031 CAR 090 GAS -O 186 STORY 236 STH - 033 CASH 091 GATE 136 OFFICE 190 SUPERVISED 236 STH - 037 CENTRAL -H 142 OVERHEAD 191 SUPERVISION 237 FELLOR - 040 CLOSED 096 HALL -P 194 TELOR 248 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED 096 HALL -P 194 TELOR 249 STH - 040 CLOSED		115 1007	- S -	• 219	WING
• 012 BABY		116 LOOD			WIRELESS
1013 BACK		117 1011			
1014 BAR		• 119 LOWED		222	
• 016 BASEMENT	_	• U/I EXII		222	
• 017 BATHROOM • 073 FACTORY 121 MAIDS 169 SHOCK		440 MAQUINE			
1018 BED	_	-1 -		223	YARD
019 BEDROOM		• U/3 FACIORT			– Z –
020 BELL		U/O FAIVILT		224	ZONE (No.)
O21 BLOWER O79 FIRE 126 MEDICINE 174 SKYLIGHT 227 1	BEDROOM	• U/O FAIRERS		• 225	ZONE
122 BOILER 080 FLOOR 128 MONEY 175 SLIDING 227 1	BELL	• U// FENCE		• 226	0
129 MONITOR 176 SMOKE 228 18T 120 MONITOR 176 SMOKE 229 22 22 22 22 22 22	BLOWER	• U/9 FIRE		• 227	1
023 BOTTOM 081 FLOW 129 MONITOR 176 SMORE 229 2	BOILER	• USU FLOOR		• 228	1ST
0.25 BREAK 0.82 FOIL 1.30 MOTHERS 1.78 SOUNS 2.30 2ND	BOTTOM	081 FLOW			
- 026 BUILDING	BREAK	U6Z FUIL		_	
- C − 084 FREEZER	BUILDING	• UOS FUTER			
028 CABINET • 085 FRONT - N - N - N - N - N - N - N - N - N - N	- C -	084 FREEZER 132 MOTOR			
• 029 CALL -G - • 134 NORTH 184 STORE 233 4 TH 030 CAMERA • 089 GARAGE 135 NURSERY • 185 STORAGE • 234 4TH 031 CAR • 090 GAS - O - 186 STORY • 235 5 033 CASH 091 GATE • 136 OFFICE 190 SUPERVISION • 237 6 034 CCTV • 092 GLASS • 138 OPEN 191 SUPERVISION • 237 6 035 CEILING 093 GUEST 139 OPENING 192 SWIMMING • 238 6TH • 036 CEILAR 094 GUN • 140 OUTSIDE 193 SWITCH • 239 7 • 037 CENTRAL − H − 142 OVERHEAD − T − • 240 7TH • 038 CIRCUIT • 095 HALL − P − 194 TAMPER • 241 8 • 040 CLOSED • 096 HEAT 143 PAINTING 197 TELEPHONE • 243 9 • 040 CONTACT 099 HOUSE 144 PANIC 197 TELEPHONE • 243 9 • 048 DAUGHTERS • 101 INSIDE 147 PERIMETER • 200 THERMOSTAT 245 Custo • 049 DELAYED 102 INTERIOR 148 PHONE • 205 UP 246 C	_	• 085 FRONT - N -	• 182 STATION		
030 CAMERA 089 GARAGE 135 NURSERY 185 STORAGE 235 5		• 13/ NOPTH	184 STORE		
O31 CAR O30 GAS O50 GAS O50 GAS O50 GAS O50 GAS O50 GAS O50		135 NI IRSERY	• 185 STORAGE		
033 CASH		•	186 STORY		
034 CCTV 092 GLASS 138 OPEN 191 SUPERVISION 237 6 CELLING 093 GUEST 139 OPENING 192 SWIMMING 238 6TH 036 CELLAR 094 GUN 140 OUTSIDE 193 SWITCH 239 7 240 7TH 142 OVERHEAD 194 TAMPER 241 8 194 TAMPER 241 8 195 TELCO 242 8TH 196 TELCO 242 8TH 196 TELCO 242 8TH 196 TELCO 243 9 197 TELEPHONE 243 9 197 TELEPHONE 244 9TH 196 TELCO 244 9TH 196 TELCO 245 TELEPHONE 246 Custo 246 Custo 247 Custo 248 Custo 248 Custo 249 DELAYED 102 INTERIOR 147 PERIMETER 247 Custo 248 Custo 249		- 420 OFFICE	190 SUPERVISED		
035 CEILING 093 GUEST 139 OPENING 192 SWIMMING 238 61H 036 CELLAR 094 GUN 140 OUTSIDE 193 SWITCH 239 7 • 037 CENTRAL -H- 142 OVERHEAD -T- 240 7TH • 040 CLOSED -H- 142 OVERHEAD -T- 241 8 • 040 CLOSED -HALL -P- 194 TAMPER 241 8 • 046 COMPUTER 096 HEAT 143 PAINTING 196 TELCO 242 8TH 047 CONTACT 099 HOUSE 145 PASSIVE 197 TELEPHONE 244 9TH • 047 CONTACT 099 HOUSE 146 PATIO 200 THERMOSTAT 245 Custo • 049 DELAYED 102 INTERIOR 148 PHONE 201 TOOL 246 Custo		USI GAIL	191 SUPERVISION	l	
036 CELLAR 094 GUN 094 GUN 140 OUTSIDE 193 SWITCH 239 7 7 7 7 7 7 7 7 7		USZ GLAGO	192 SWIMMING		
• 037 CENTRAL −H− 142 OVERHEAD −T− 240 71H • 038 CIRCUIT • 095 HALL −P− 194 TAMPER • 241 8 • 040 CLOSED • 096 HEAT 143 PAINTING 196 TELCO • 242 8TH • 046 COMPUTER 098 HOLDUP • 144 PANIC 197 TELEPHONE • 244 9TH 047 CONTACT 099 HOUSE 145 PASSIVE • 199 TEMPERATURE • 244 9TH • 048 DAUGHTERS • 101 INSIDE 147 PERIMETER • 201 TOOL 246 Custo 049 DELAYED 102 INTERIOR • 148 PHONE 202 TRANSMITTER 247 Custo • 050 DEN 103 INTRUSION 150 POINT − U − 248 Custo • 051 DESK − J − 151 POLICE • 205 UP 249 Custo • 052 DETECTOR 104 JEWELRY 152 POOL • 206 UPPER 250 Custo • 053 DINING − K − • 153 POWER • 207 UPSTAIRS 251 Custo • 255 Custo • 208 UTILITY 252 Custo • 208 UTILITY 253 Custo		000 GOLOT	193 SWITCH		
038 CIRCUIT 095 HALL -P - 194 TAMPER 241 8 8 1 1 1 1 1 1 1		1/2 OVERHEAD	– T –		
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• 046 COMPUTER 098 HEAT 143 PAINTING 197 TELEPHONE • 243 9 047 CONTACT 099 HOUSE 144 PANIC 199 TEMPERATURE • 244 9TH • 048 DAUGHTERS 100 INFRARED 146 PATIO 200 THERMOSTAT 245 Custo 049 DELAYED 102 INTERIOR 148 PHONE 201 TOOL 246 Custo • 050 DEN 103 INTRUSION 150 POINT - U - 248 Custo • 051 DESK - J - 151 POLICE 205 UP 249 Custo • 052 DETECTOR 104 JEWELRY 153 POWER 207 UPSTAIRS 251 Custo • 054 DISCIMINATOR • 105 KITCHEN • 153 POWER • 208 UTILITY 252 Custo		• USO TALL			
047 CONTACT 098 HOLDUP 144 PANIC • 199 TEMPERATURE • 244 9TH • 047 CONTACT 099 HOUSE 145 PASSIVE 200 THERMOSTAT 245 Custo • 048 DAUGHTERS • 101 INSIDE 147 PERIMETER 201 TOOL 246 Custo • 049 DELAYED 102 INTERIOR • 148 PHONE 202 TRANSMITTER 247 Custo • 050 DEN 103 INTRUSION 150 POINT - U - 248 Custo • 051 DESK - J - 151 POLICE • 205 UP 249 Custo • 052 DETECTOR 104 JEWELRY 152 POOL • 206 UPPER 250 Custo • 054 DISCHANOR - K - • 153 POWER • 207 UPSTAIRS 251 Custo • 054 DISCHANOR • 105 KITCHEN •		9 USU TILAT		• 243	9
• 047 CONTACT 099 HOUSE 145 PASSIVE 200 THERMOSTAT 245 Custo • 048 DAUGHTERS • 101 INSIDE 147 PERIMETER 201 TOOL 246 Custo • 049 DELAYED 102 INTERIOR • 148 PHONE 202 TRANSMITTER 247 Custo • 050 DEN 103 INTRUSION 150 POINT - U - 248 Custo • 051 DESK - J - 151 POLICE • 205 UP 249 Custo • 052 DETECTOR 104 JEWELRY 152 POOL • 206 UPPER 250 Custo • 053 DINING - K - • 153 POWER • 207 UPSTAIRS 251 Custo • 054 DISCIANY • 105 KITCHEN • 153 POWER • 208 UTILITY 252 Custo		U96 HOLDOF		E • 244	9TH
• 048 DAUGHTERS • 101 INSIDE 146 PATIO • 201 TOOL 246 Custo • 049 DELAYED 102 INTERIOR • 148 PHONE 202 TRANSMITTER 247 Custo • 050 DEN 103 INTRUSION 150 POINT − U − 248 Custo • 051 DESK − J − 151 POLICE • 205 UP 249 Custo • 052 DETECTOR 104 JEWELRY 152 POOL • 206 UPPER 250 Custo • 053 DINING − K − • 153 POWER • 207 UPSTAIRS 251 Custo • 054 DISCIALY • 105 KITCHEN • 105 KITCHEN • 208 UTILITY 252 Custo		099 11003L		_	Custom Word #1
• 048 DAUGHTERS • 101 INSIDE 147 PERIMETER 202 TRANSMITTER 247 Custo • 050 DEN 103 INTRUSION 150 POINT - U - 248 Custo • 051 DESK - J - 151 POLICE • 205 UP 249 Custo • 052 DETECTOR 104 JEWELRY 152 POOL • 206 UPPER 250 Custo • 053 DINING - K - • 153 POWER • 207 UPSTAIRS 251 Custo • 054 DISCRIMINATOR • 105 KITCHEN • 105 KITCHEN • 208 UTILITY 253 Custo		100 INTRARED		_	Custom Word #2
049 DELAYED 102 INTERIOR • 148 PHONE • 050 DEN 103 INTRUSION 150 POINT - U - 248 Custo • 051 DESK - J - 151 POLICE • 205 UP 249 Custo • 052 DETECTOR 104 JEWELRY 152 POOL • 206 UPPER 250 Custo • 053 DINING - K - • 153 POWER • 207 UPSTAIRS 251 Custo • 054 DISCRIMINATOR • 105 KITCHEN • 153 POWER • 208 UTILITY 252 Custo		101 INSIDE			Custom Word #3
• 050 DEN 103 INTRUSION 150 POINT 051 DESK - J - 151 POLICE • 205 UP 249 Custo • 052 DETECTOR 104 JEWELRY 152 POOL • 206 UPPER 250 Custo • 053 DINING - K - • 153 POWER • 207 UPSTAIRS 251 Custo • 055 DISPLAY • 105 KITCHEN • 105 KITCHEN • 208 UTILITY 252 Custo		102 INTERIOR			Custom Word #4
051 DESK -J- 151 POLICE 203 UPPER 250 Custo • 052 DETECTOR 104 JEWELRY 152 POOL • 206 UPPER 251 Custo • 053 DINING - K - • 153 POWER • 207 UPSTAIRS 252 Custo 054 DISCRIMINATOR • 105 KITCHEN • 105 KITCHEN 253 Custo	DEN	100 11111001011	=	_	Custom Word #5
• 052 DETECTOR 104 JEWELRY 152 POOL • 206 UPPER 251 Custo • 053 DINING - K - • 153 POWER • 207 UPSTAIRS 251 Custo • 054 DISCRIMINATOR • 105 KITCHEN • 208 UTILITY 252 Custo	DESK	l -			Custom Word #6
• 053 DINING 054 DISCRIMINATOR 055 DISPLAY • 105 KITCHEN • 153 POWER • 207 OFSTARS • 208 UTILITY 252 Custo 253 Custo	DETECTOR	104 JEWELRY 152 POOL			Custom Word #7
054 DISCRIMINATOR 055 DISPLAY • 105 KITCHEN 253 Custo	DINING	• 153 POWER			Custom Word #8
OFF DISDLAY	DISCRIMINA		• 208 UTILITY		Custom Word #9
704 G080	DISPLAY	' 103 KITCHEN			Custom Word #10
201 0486				204	Gustoiii Wolu #10

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)

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32 (s	pace)	41)	50	2		59	;		68	D		77	M	87	
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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	1	48	0	57	9		66	В		75	K		84	Т		
40	(49	1	58	3 :		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

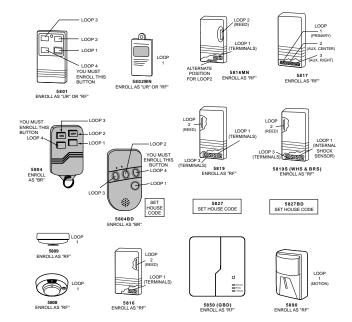


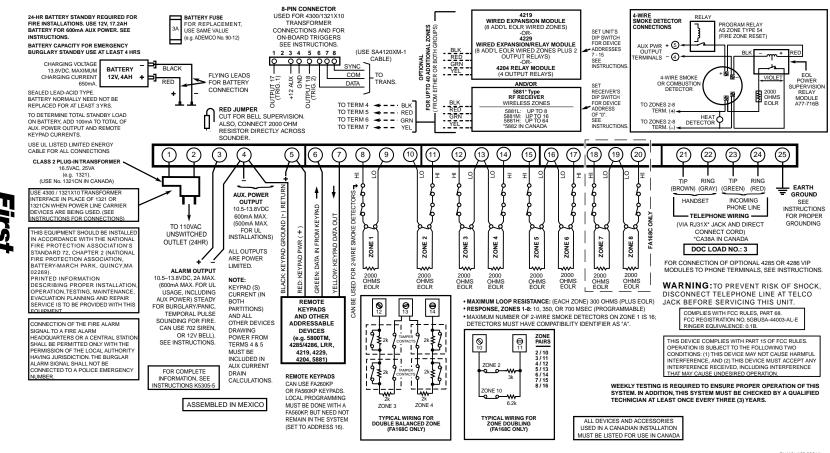
Table of Device Addresses

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
		Zone Expanders (4219/4229):	*56 zone programming: input device type entry, then:
07	107	module 1 zones 09 - 16	 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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