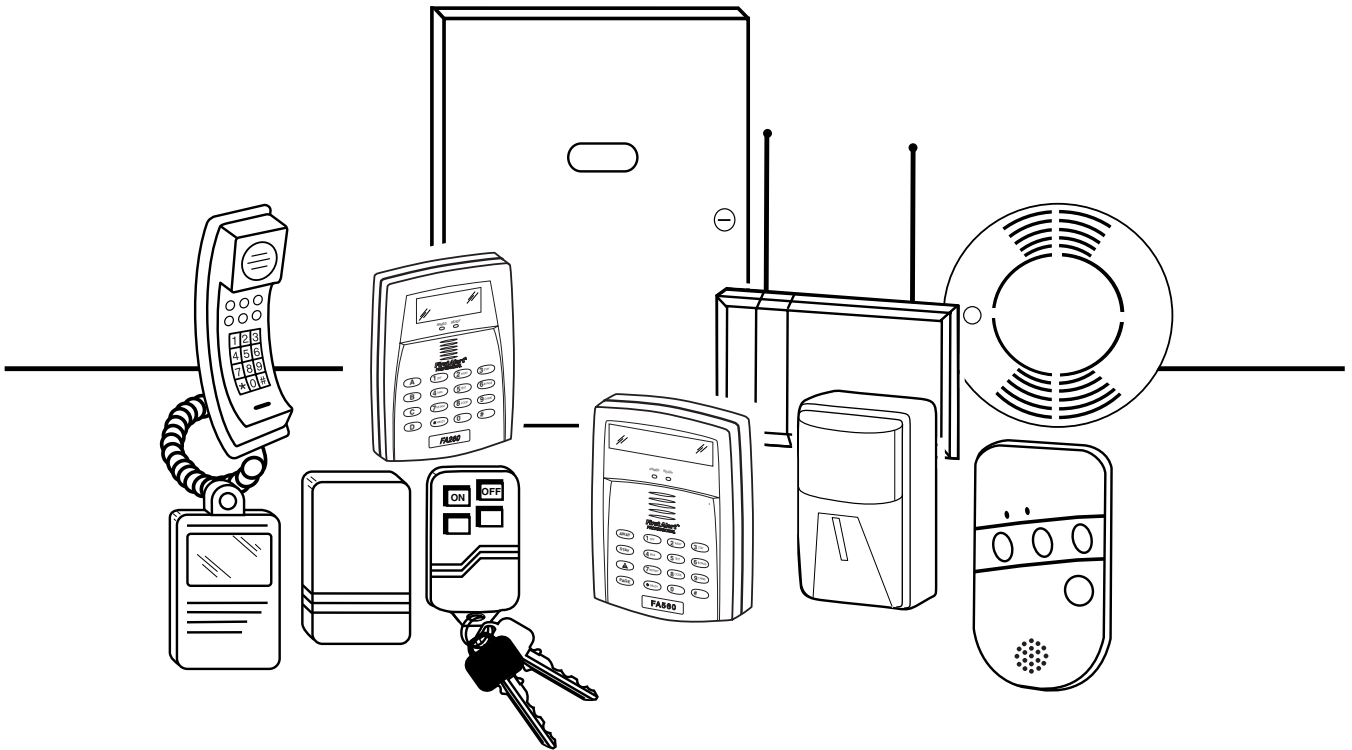


.....**FA168CPS / FA168CPSSIA**  
**FA148CP / FA148CPSIA**  
**Security Systems**

**Programming Guide**



**TO ENTER PROGRAMMING MODE:**

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

**A.** POWER UP, then depress **[\*]** and **[#]** both at once, within 50 seconds of powering up (if **\*98** was used to exit program mode, this method must be used to reenter program mode).

OR

**B.** Initially, key: **Installer Code (4 + 1 + 1 + 2)** plus **8 + 0 + 0**.

**DATA FIELD PROGRAMMING PROCEDURES**

Task	Procedure
<b>Go to a Data Field</b>	Press <b>[*]</b> + <b>[Field Number]</b> , followed by the required entry.
<b>Entering Data</b>	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 <b>*41</b> , <b>*42</b> ), enter the desired data, then press <b>[*]</b> to end the entry. The next data field number is displayed.
<b>Review a Data Field</b>	Press <b>[#]</b> + <b>[Field Number]</b> . Data will be displayed for that field number. No changes will be accepted in this mode.
<b>Deleting an Entry</b>	Press <b>[*]</b> + <b>[Field Number]</b> + <b>[*]</b> . (Applies only to fields <b>*40</b> thru <b>*46</b> , <b>*94</b> , and pager programming fields)

**INTERACTIVE MODE PROGRAMMING (\*56, \*57, \*58, \*79, \*80, \*81, \*82, \*187)**

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
<b>*56</b> Zone Programming	Zone characteristics, report codes, alpha descriptors, and serial numbers for 5800 RF transmitters.
<b>*57</b> Function Key Programming	Unlabeled keypad keys (known as ABCD keys) for special functions
<b>*58</b> Zone Programming (Expert mode)	Same options as <b>*56</b> mode, but with fewer prompts. Intended for those familiar with this type of programming, otherwise <b>*56</b> mode is recommended.
<b>*79</b> Output Device Mapping	Assign module addresses and map individual relays/powerline carrier devices
<b>*80</b> Output Programming	4229 or 4204 Relay modules, Powerline Carrier devices, or on-board triggers
<b>*81</b> Zone List Programming	Zone Lists for relay/powerline carrier activation, chime zones, pager zones, etc.
<b>*82</b> 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**. If **\*98** is used to exit programming mode, system must be powered down, and method A above used to enter the programming mode.  
See field **\*88** for other **\*98** Program mode lockout options.

**\*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. The display will clear after you correct the programming.

# PROGRAMMING FORM

Entries apply to the FA168CPS/FA168CPSSIA and FA148CP/FA148CPSIA controls, except entries shown in dashed boxes, which apply only to the FA168CPS/FA168CPSSIA (partition entries) and are not applicable to the FA148CP/FA148CPSIA controls.

**SIA-Compliant Controls:** Where noted, certain fields have special settings when used with the FA168CPSSIA and FA148CPSIA SIA-Compliant controls (indicated by **SIA-Compliant Controls** in reverse type and heavy borders for easy identification).

Entry of a number other than one specified will give unpredictable results. Values shown in brackets are factory defaults.

**SIA Guidelines for Non-SIA-Compliant Controls:** Notes in certain fields give instructions for programming the FA168CPS/FA148CP for False Alarm Reduction (these controls can be programmed to reduce false alarms, but they are not fully SIA compliant).

Field	Function	Data Entries	Programmable Values
<b>SYSTEM SETUP (*20–*29)</b>			
* 20	INSTALLER CODE	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> [4112]	4 digits, 0–9
* 21	QUICK ARM ENABLE	<input type="checkbox"/> [0,0] Part. 1 Part. 2	0 = no; 1 = yes
* 22	RF JAM OPTION	<input type="checkbox"/> [0]	0 = no RF Jam detection; 1 = send RF Jam report <b>SIA-Compliant Controls:</b> UL: must be 1 if wireless devices are used
* 23	QUICK (FORCED) BYPASS	<input type="checkbox"/> [0,0] Part. 1 Part. 2	0 = no quick bypass <b>SIA-Compliant Controls:</b> UL: must be "0" 1 = allow quick bypass (code + [6] + [#])
* 24	RF HOUSE ID CODE	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> Part. 1 Part. 2 Common	00 = disable all wireless keypad usage [00,00,00] 01–31 = using 5827, 5827BD or 5804BD keypad
* 26	CHIME BY ZONE	<input type="checkbox"/> [0]	0 = no; 1 = yes (select zones to chime on zone list 3, using *81 Menu mode)
* 27	POWERLINE CARRIER DEVICE (X–10) HOUSE CODE	<input type="checkbox"/> [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 <b>SIA-Compliant Controls:</b> UL: not for fire or UL installations
* 28	ACCESS CODE FOR PHONE MODULE	<input type="text" value=""/> <input type="text" value=""/> [00] (Partition 1 only)	00 = disable; 1st digit: enter 1–9; 2nd digit: enter # + 11 for "*", or # + 12 for "#". <b>SIA-Compliant Controls:</b> UL: must be "00" for UL Commercial Burg. installations
* 29	LONG RANGE RADIO OUTPUT	<input type="checkbox"/> [0]	0 = disable; 1 = enable
* 31	SINGLE ALARM SOUNDING per ZONE	<input type="checkbox"/> [0]	0 = unlimited sounding; 1 = one alarm sounding per zone <b>SIA-Compliant Controls:</b> If "0," "alarm sounding per zone" will be the same as the "number of reports in armed period" set in field *93 (1 if 1 report, 2 if 2 reports, unlimited for zones in zone list 7).
* 32	FIRE ALARMSOUNDER TIMEOUT	<input type="checkbox"/> [0]	0 = sounder stops at timeout; 1 = no sounder timeout <b>SIA-Compliant Controls:</b> UL: must be "1" for fire install.
* 33	ALARM SOUNDER (BELL) TIMEOUT	<input type="checkbox"/> [1]	0 = none; 1 = 4 min; 2 = 8 min; 3 = 12 min; 4 = 16 min; <b>SIA-Compliant Controls:</b> UL: For residential fire alarm installation, must be set for a minimum of 4 min (option 1); for UL Commercial Burglary installations, must be minimum 16 min (option 4)
* 34	EXIT DELAY	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> [60,60] Part. 1 Part. 2 <b>SIA-Compliant Controls:</b> UL: see inst. instr. for requirements.	00 - 96 = 0 - 96 secs; 97 = 120 secs SIA Guidelines: minimum exit delay is 45 seconds <b>SIA-Compliant Controls:</b> 45 - 96 = 45 - 96 secs; 97 = 120 secs NOTE: Entries less than 45 will result in a 45-second delay.
* 35	ENTRY DELAY #1 (zone type 01)	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> [30,30] Part. 1 Part. 2 <b>SIA-Compliant Controls:</b> 45 - 96 = 45 - 96 secs; 97 = 120 secs; 98 = 180 secs; 99 = 240 secs (SIA Guidelines: minimum entry delay is 30 secs) Common zones use same delay as partition 1.	00 - 96 = 0 - 96 seconds; 97 = 120 secs; 98 = 180 secs; 99 = 240 secs (SIA Guidelines: minimum entry delay is 30 secs) <b>SIA-Compliant Controls:</b> 30-96 = 30 - 96 secs; 97 = 120 secs; 98 = 180 secs; 99 = 240 secs NOTE: Entries less than 30 will result in a 30-second delay.
* 36	ENTRY DELAY #2 (zone type 02)	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> [30,30] Part. 1 Part. 2 Common zones use same delay as partition 1.	See *35 Entry Delay 1 above for entries.
* 37	AUDIBLE EXIT WARNING	<input type="checkbox"/> [1,1]	0 = no; 1 = yes SIA Guidelines: must be enabled <b>SIA-Compliant Controls:</b> Feature always enabled; field removed.
* 38	CONFIRMATION OF ARMING DING	<input type="checkbox"/> [0,0] Part. 1 Part. 2	0 = no; 1 = yes (wired keypads and RF); 2 = yes, RF only <b>SIA-Compliant Controls:</b> UL: must be "1" for UL Commercial Burglar Alarm inst.
* 39	POWER UP IN PREVIOUS STATE	<input type="checkbox"/> [1]	0 = no; 1 = yes <b>SIA-Compliant Controls:</b> UL: must be "1" SIA Guidelines: must be "1" <b>SIA-Compliant Controls:</b> Feature must be enabled (enter 1).

**DIALER PROGRAMMING (\*40 – \*42)** Do not fill unused spaces. Enter 0–9; #+11 for '\*'; #+12 for '#'; #+13 for a 2-second pause. If fewer than the maximum digits entered, exit the field by pressing [\*]. The next data field number is displayed.

\* 40 PABX ACCESS CODE or CALL WAITING DISABLE  Enter up to 6 digits. To clear entries, press \*40\*. If call waiting used, enter call waiting disable digits "\*" (#+11) 70" plus "# + 13" (pause).

**NOTES:** 1. The call waiting disable feature cannot be used on a PABX line.  
2. Using Call Waiting Disable on a non-call waiting line will prevent successful communication to the central station.

**SIA-Compliant Controls:** If call waiting is used, enter call waiting disable digits as described above, and also set Call Waiting Disable option in field \*91.



- \*62 AC LOSS REPORT CODE  [00] See box on previous page.
- \*63 LOW BAT REPORT CODE  [00] See box on previous page.
- \*64 TEST REPORT CODE  [00] See box on previous page. Use Scheduling mode to set periodic test reports, or use the following key commands:  
 installer code +[#] + [0] + 0 = test report sent every 24 hours  
 installer code +[#] + [0] + 1 = test report sent once per week  
 installer code +[#] + [0] + 2 = test report sent every 28 days\*65

Each mode sets schedule 32 (FA168CPS) or schedule 08 (FA148CP) to the stated repeat option; first test report sent 12 hours after command.

OPEN REPORT CODE  [0,0,0] See box above.

- \*66 ARM AWAY/STAY RPT CODE       [0,0,0,0,0,0] See box above.  
 Part. 1 Part. 2 Common  
 Away Stay Away Stay Away Stay  
 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. **SIA-Compliant Controls:** [10] Report enabled.

**\*69 RECENT CLOSING REPORT CODE**  [11] **SIA-Compliant Controls:** Always enabled. Field does not apply to other controls.

**RESTORE 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.  
 UL: must be enabled if wireless devices are used
- \*76 TEST RESTORE RPT CODE  [00] See box on previous page.

**OUTPUT AND SYSTEM SETUP (\*77 – \*93)**

- \*77 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
- \*79, \*80, \*81, \*82 MENU MODES These are Menu Mode commands, not data fields, for Output Device Mapping, Output Programming, Zone List Programming, and Alpha Programming respectively. See page 2 and their respective sections in the Installation and Setup Guide for procedures.
- \*84 AUTO STAY ARM  [3] 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  
 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  
 [This option not for use in UL installations.] (assign cross zones on zone list 4, using \*81 Menu mode)
- \*86 CANCEL VERIFY KEYPAD DISPLAY  [1] 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
- \*88 PROGRAM MODE LOCKOUT OPTIONS  [0] 0 = standard \*98 installer code lockout (reentry only by downloader or [\*] + [#] within 50 secs after power up)  
 1 = lockout [\*] + [#] reentry after \*98 exit (reenter via installer code or downloader only)  
 2 = not used  
 3 = lockout all local programming after \*98 exit (reentry via downloader only)
- \*89 EVENT LOG FULL REPORT CODE  [00] See box on previous page for report code entries.

**\*90** EVENT LOG ENABLES

[3]

**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.  
*Example:* To select "Alarm/Alarm Restore", and "Open/Close", enter 9 (1 + 8); To select all, enter #15.

**\*91** OPTION SELECTION

Options  [8,0]  
**SIA-Comp Controls**  
Call Wait Disable

**Options:** 0 = None  
2 = Sounder Delay (delays sounding by 15 seconds)  
UL: if used, entry delay (\*35) must be 30 sec. max.  
4 = AAV UL: must use ADEMCO UVCM module  
8 = Exit Delay Restart/Reset UL: must be disabled  
##+12 = AAV and Exit Delay Restart/Reset  
SIA Guidelines: Exit Delay should be enabled.

**SIA-Compliant Controls; Options: Same as listed above.**  
**Call Waiting Disable:** 0 = call waiting not used  
1 = call waiting disable digits (\*70) entered in field \*40; (when selected, the system dials the entry in field \*40 only on alternate dial attempts; this allows proper dialing in the event call waiting service is later canceled by the user).

**\*92** PHONE LINE MONITOR ENABLE

[0,0]  
1 2

UL: see Inst. Instructions for requirements

**NOTE:** Output Device must either be programmed to be STOPPED in field \*80 or STOPPED by Code + # + 8 + output number.

**Entry 1::** 0 = disabled, 1-15 = 1 min - 15 min  
(#+10 = 10 min; #+11 = 11 min; #+12 = 12 min; #+13 = 13 min; #+14 = 14 min; #+15 = 15 min)

**Entry 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.

**\*93** No. OF REPORTS IN ARMED PERIOD PER ZONE (Swinger Suppression)

[1,0]  
Restrict Report Pairs **SIA-Comp Controls**  
Unlimited Reports Enable

**Restrict Report Pairs:**  
0 = Unlimited Reports; 1 = 1 report; 2 = 2 reports  
SIA Guidelines: Must be set for option 1 or 2.

**SIA-Compliant Controls;**  
**Restrict Report Pairs:** 1 = 1 report pair; 2 = 2 report pairs  
**Unlimited Reports Enable:**  
0 = restrict reports to the setting in entry 1  
1 = unlimited reports for zones listed in zone list 7; (use zone list 7 to enter those zones that require unlimited reporting; these zones ignore the setting in entry 1)

**DOWNLOAD INFORMATION (\*94, \*95)**

**\*94** DOWNLOAD PHONE No.

\_\_\_\_\_

Enter up to 20 digits, 0-9; #+11 for '\*'; #+12 for '#'; #+13 for a 2-second pause. Do not fill unused spaces. If fewer than 20 digits, exit field by pressing \*. To clear entries from field, press \*94\*.

UL: downloading may be performed only if a technician is at the site.

**\*95** RING COUNT FOR DOWNLOADING

[15]

**NOTE:** Do not enter "0" if using FA4285/FA4286 Phone Module.

0 = Disable Station Initiated Download;  
1-14 = number of rings (1-9, # +10 =10, # +11 =11, # +12 =12, # +13 =13, # +14 =14);  
15 = answering machine defeat (# +15 =15).

**\*96, \*97** INITIALIZE/RESET DEFAULTS

These are commands, not data fields. See page 2.

**\*98, \*99** EXIT COMMANDS

These are commands, not data fields. See page 2.

**PAGER OPTIONS (\*160- \*172)**

**\*160** PAGER 1 PHONE No.

\_\_\_\_\_

Enter up to 20 digits. 0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*161** PAGER 1 CHARACTERS

\_\_\_\_\_

Enter the optional prefix characters, up to 16 digits.  
0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*162** PAGER 1 REPORT OPTIONS

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.

\_\_\_\_\_

Enter up to 20 digits. 0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*164 PAGER 2 CHARACTERS**

\_\_\_\_\_

Enter the optional prefix characters, up to 16 digits.  
0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*165 PAGER 2 REPORT OPTIONS**

[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.**

\_\_\_\_\_

Enter up to 20 digits. 0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*167 PAGER 3 CHARACTERS**

\_\_\_\_\_

Enter the optional prefix characters, up to 16 digits.

0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*168 PAGER 3 REPORT OPTIONS**

[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.**

\_\_\_\_\_

Enter up to 20 digits. 0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*170 PAGER 4 CHARACTERS**

\_\_\_\_\_

Enter the optional prefix characters, up to 16 digits.

0-9; #+11 = '\*'; #+12 = '#'; #+13 = 2-second pause.

**\*171 PAGER 4 REPORT OPTIONS**

[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 ALARMS**

[3]

0 = none, 1 = 1 minute, 2 = 2 minutes, 3 = 3 minutes  
This delay is for ALL pagers in the system.

**MISCELLANEOUS SYSTEM FIELDS (\*174-\*181)**

**\*174 CLEAN ME REPORTING OPTIONS**  
(for ESL smoke detectors)

[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 Actions 5/6)

[0]  [0]  
1 2

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  
5 = 2 minutes

**\*181 50/60 HERTZ AC OPERATION**

[0]

0 = 60 Hz; 1 = 50 Hz

**CONFIGURABLE ZONE TYPE OPTIONS (\*182-\*185)**

**\*182 CONFIGURABLE ZONE TYPE 90**

1 2 3 4 5 6 7 8 9 10

Enter the appropriate value for each entry, 1-10, based on the charts provided on the next page. Each entry is the sum of the values of its selected options (0-9, #+10=10, #+11=11, #+12=12, #+13=13, #+14=14, #+15=15).

**UL:** Do not configure zones 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**

1 2 3 4 5 6 7 8 9 10

Enter the appropriate value for each entry, 1-10, based on the charts provided on the next page. Each entry is the sum of the values of its selected options (0-9, #+10=10, #+11=11, #+12=12, #+13=13, #+14=14, #+15=15).

**UL:** Do not configure zones 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.

**TOUCH SCREEN DEVICE (AUI) ENABLE**

**\*189 AUI DEVICE 1 and 2 ENABLE**  
(for Touch Screen style keypads)

[1] [1]  
AUI 1 AUI 2

AUI 1: Must set AUI address to 1  
AUI 2: Must set AUI address to 2  
(see Inst. Instr. for details)

**FA168CPS:** Enter each touch screen (AUI) device's home partition -- 0 = disabled; 1 = partition 1; 2 = partition 2; 3 = partition 3 (common)

**FA148CP:** 0 = disabled; 1 = enabled

**NOTE:** System supports up to two touch screen style keypads (e.g. Symphony Advanced User Interface, and FA700KP Touch Screen keypad).

Use of AUI does not affect the number of standard keypads supported.

**AUI Compatibility Note:** To ensure proper AUI device operation, connect only to controls having microprocessor version 3.0 or higher, and use AUI devices with the following rev levels: FA700KP series use version 1.0.9 or higher; 8132/8142 (Symphony) series use version 1.1.175 or higher.

**KEYPAD OPTIONS \*190-\*196 (NOTE: Options for keypad address 16 are set by the factory and cannot be changed.)**

**NOTE:** Each keypad must be assigned a unique address. Keypads programmed with the same address will give unpredictable results.

<b>*190</b> KEYPAD 2 DEVICE ADDRESS 17	<input type="checkbox"/> [0] [0]	Partition/ Enable†	<input type="checkbox"/> [0] [0]	Sound	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
		†FA168CPS: enter partition FA148CP: 1 = enable 0 = disable			
<b>*191</b> KEYPAD 3 DEVICE ADDRESS 18	<input type="checkbox"/> [0] [0]	Part./Enable†	<input type="checkbox"/> [0] [0]	Sound	See field *190 for entries.
<b>*192</b> KEYPAD 4 DEVICE ADDRESS 19	<input type="checkbox"/> [0] [0]		<input type="checkbox"/> [0] [0]		See field *190 for entries.
<b>*193</b> KEYPAD 5 DEVICE ADDRESS 20	<input type="checkbox"/> [0] [0]		<input type="checkbox"/> [0] [0]		See field *190 for entries.
<b>*194</b> KEYPAD 6 DEVICE ADDRESS 21	<input type="checkbox"/> [0] [0]		<input type="checkbox"/> [0] [0]		See field *190 for entries.
<b>*195</b> KEYPAD 7 DEVICE ADDRESS 22	<input type="checkbox"/> [0] [0]		<input type="checkbox"/> [0] [0]		See field *190 for entries.
<b>*196</b> KEYPAD 8 DEVICE ADDRESS 23	<input type="checkbox"/> [0] [0]		<input type="checkbox"/> [0] [0]		See field *190 for entries.
<b>*197</b> EXIT TIME DISPLAY INTERVAL	<input type="checkbox"/> [0]				0 = no display; 1-5 = seconds between display refresh <b>NOTE:</b> If enabled and using only 2-digit fixed-word keypads (e.g., FA245RF), do not set exit delay time greater than 96 seconds. See Inst. Instr. for explanation.
<b>*198</b> DISPLAY PARTITION NUMBER (FA168CPS; for Alpha Display Keypads)	<input type="checkbox"/> [0]				0 = no; 1 = yes (partition no. appears on Alpha Display)
<b>*199</b> ECP FAIL DISPLAY	<input type="checkbox"/> [0]				0 = 3-digit display ("1" + device address) 1 = 2-digit fixed-display as "91"

**Zone Type Definitions**

(see Installation and Setup Guide for detailed explanations and applications)

Type	Title	Definition
00	Zone Not Used	Assign this zone type if the zone is not used.
01	Entry/Exit Burglary no. 1	<ul style="list-style-type: none"> <li>Provides entry delay if the control is armed in the Away or Stay modes.</li> <li>Exit delay begins whenever the control is armed, regardless of the arming mode selected.</li> </ul>
02	Entry/Exit Burglary no. 2	<ul style="list-style-type: none"> <li>Provides a secondary entry delay, in same manner as entry delay #1.</li> </ul>
03	Perimeter Burglary	<ul style="list-style-type: none"> <li>Provides an instant alarm if the zone is faulted when the panel is armed in any mode.</li> </ul>
04	Interior Follower	<ul style="list-style-type: none"> <li>When armed in Away mode, provides a delayed alarm (using the programmed entry delay time) if the entry/exit zone is faulted first. Otherwise this zone type gives an instant alarm.</li> <li>Bypassed automatically when the panel is armed in the Stay or Instant modes.</li> </ul>
05	Trouble by Day/Alarm by Night	<ul style="list-style-type: none"> <li>Provides an instant alarm if faulted when armed in the Away, Stay, Instant or Maximum.</li> <li>During the disarmed state (day), the system will provide a latched trouble sounding from the keypad (and a central station report, if desired).</li> </ul>
06	24-hour Silent Alarm	<ul style="list-style-type: none"> <li>Emergency button zone. Sends a report but provides no keypad display or sounding.</li> </ul>
07	24-hour Audible Alarm	<ul style="list-style-type: none"> <li>Emergency button zone. Sends a report and sounds alarm at the keypad and ext. sounder.</li> </ul>
08	24-hour Auxiliary Alarm	<ul style="list-style-type: none"> <li>Emergency button zone, or for a zone containing monitoring devices such as water or temperature sensors. Sends a report and sounds alarm at the keypad (not ext. sounder).</li> </ul>
09	Fire	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>
10	Interior w/Delay	<ul style="list-style-type: none"> <li>Provides entry delay if tripped when the panel is armed Away. Delay begins whenever zone is violated, regardless of whether or not an entry/exit delay zone was tripped first.</li> </ul>
12	Monitor Zone	<ul style="list-style-type: none"> <li>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 (but keypad beeping does not occur). Upon restoral of the zone, the message, "RESTORE-24 Hr. Non-Burg. -#XXX " will be sent to the Central Station.</li> <li>The "check" message will automatically disappear from the keypad dynamically when the zone restores; a user code + off sequence is not needed to reset the zone.</li> <li>Faults of this zone type are independent of the system, and can exist at the time of arming without interference.</li> <li>Since this is a "trouble" zone type, do not use this zone type with relays set to activate upon "alarm."</li> </ul>
14	Carbon Monoxide	<ul style="list-style-type: none"> <li>The bell output pulses when this zone type is faulted. Always active, cannot be bypassed.</li> </ul>
16	Fire w/Verification	<ul style="list-style-type: none"> <li>Provides a fire alarm when zone is shorted, but only after alarm verified.</li> <li>Provides a trouble response when zone is open.</li> </ul>
20	Arm-Stay	<ul style="list-style-type: none"> <li>Button zone. Arms the system in Stay mode when the zone is activated.</li> <li>User code for button must be assigned.</li> </ul>
21	Arm-Away	<ul style="list-style-type: none"> <li>Button zone. Arms the system in Away mode when the zone is activated.</li> <li>User code for button must be assigned.</li> </ul>
22	Disarm	<ul style="list-style-type: none"> <li>Button zone. Disarms the system when the zone is activated.</li> <li>User code for button must be assigned.</li> </ul>
23	No Alarm Response	<ul style="list-style-type: none"> <li>Can be used on a zone when an output relay action is desired, but with no accompanying alarm (e.g., lobby door access).</li> </ul>
24	Silent Burglary	<ul style="list-style-type: none"> <li>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 any mode. A report is sent.</li> </ul>
77	Keyswitch	<ul style="list-style-type: none"> <li>Assign to zone wired to a keyswitch.</li> </ul>
81	AAV Monitor Zone	<ul style="list-style-type: none"> <li>Assign to zone connected to AAV module.</li> </ul>
90-93	Installer Defined	<ul style="list-style-type: none"> <li>These zone types can be programmed for custom responses. See data fields *182-*185.</li> <li>UL: Zone types 90-93 may not be used as fire or burglar zones in fire or UL burglar alarm installations.</li> </ul>



# 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 (FA168CPS 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 note 5 for RF zones)			ENTRY 2 (See note 5 for RF zones)	
Response when system disarmed and zone is:			Auto Restore	Vent Zone
Intact EOL <i>RF zone normal</i>	Open <i>RF zone N/A</i>	Shorted <i>RF zn off-normal</i>		
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 + vent zone	

ENTRY 3 (See note 5 for RF zones)			ENTRY 4 (See note 5 for RF zones)	
Response when armed STAY and zone is:			Byp. when disarmed	Byp. when armed
Intact EOL <i>RF zone normal</i>	Open <i>RF zone N/A</i>	Shorted <i>RF zn off-normal</i>		
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 3 = EOL + Open			Entry 4 = Short + byp. disarmed + byp. armed	

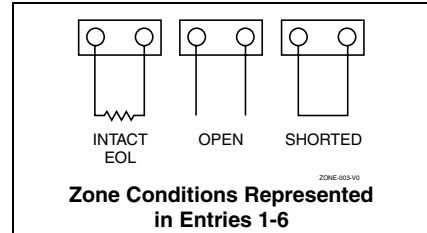
ENTRY 5 (See note 5 for RF zones)			ENTRY 6 (See note 5 for RF zones)	
Response when armed AWAY and zone is:			Dial Delay (see field *50)	Fault Delay (see field *87)
Intact EOL <i>RF zone normal</i>	Open <i>RF zone N/A</i>	Shorted <i>RF zn off-normal</i>		
0 = normal 1 = alarm 2 = trouble 3 = fault	0 = normal 4 = alarm 8 = trouble 12 = fault	0 = normal 1 = alarm 2 = trouble 3 = fault	0 = no 4 = use delay	0 = no 8 = use delay  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 display + power reset/verification		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 and keypad	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
Entry 9 = alarm sounds + bell timeout + fire zone			Entry 10 = trouble sounds + chime	

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.
  - 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 off-normal 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.
    - For double-balanced zones, this entry must be "0."
    - For zone-doubled zones, **both** zones of the doubled pair must be assigned the same response to a short.

**\*56 ZONE PROGRAMMING WORKSHEET** (FA148CP supports up to 32 zones: 1-6, 9-34, 49-56) [default shown in brackets]

Zone	Zn Type	Part.	Report	Hardwire Type	Resp. Time	Location	
1	[09]	[1]		[EOL]	[1]		
2	[01]	[1]		[EOL]	[1]		
3	[03]	[1]		[EOL]	[1]		
4	[03]	[1]		[EOL]	[1]		
5	[03]	[1]		[EOL]	[1]		
6	[03]	[1]		[EOL]	[1]		
7	[03]	[1]		[EOL]	[1]		
8	[03]	[1]		[EOL]	[1]		
Zone	Zn Type	Part.	Report	Input Type	Loop	Serial No.	Location
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
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37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49		[1]		[BR]			
50		[1]		[BR]			
51		[1]		[BR]			
52		[1]		[BR]			
53		[1]		[BR]			
54		[1]		[BR]			
55		[1]		[BR]			
56		[1]		[BR]			
57		[1]		[BR]			
58		[1]		[BR]			
59		[1]		[BR]			
60		[1]		[BR]			
61		[1]		[BR]			
62		[1]		[BR]			
63		[1]		[BR]			
64		[1]		[BR]			
95	[00]	N/A**		N/A	N/A	N/A	keypad [1] / [*]
96	[00]	N/A**		N/A	N/A	N/A	keypad [3] / [#]
99	[06]	N/A**		N/A	N/A	N/A	keypad [*] / [#]

**NOTES:**  
 Zone Type: see chart on page 8;  
 Report Code: enabled if any digit entered as 1st digit;  
 Hardwire Type (zns 1-8):  
 0 = EOL    3 = ZD  
 1 = NC     4 = DB  
 2 = NO  
 Input Type:  
 2 = AW (zones 9-48)  
 3 = RF (zones 9-48)  
 4 = UR (zones 9-48)  
 5 = BR (zones 49-64)  
**NOTE:** Zones 9-16 not available if zone doubling enabled.  
 Response Time:  
 0 = 10msec  
 1 = 350msec  
 2 = 700msec  
 3 = 1.2 sec

**Reserved Zones**  
 91 = addressable device report enable/disable default zone type = [05].  
 92 = Duress report enable/disable

\*\* Emergency key zones 95, 96, and 99 report the partition of the keypad used to activate the emergency zones.

**\*57 FUNCTION KEY PROGRAMMING**

Option	Function	A	B	C	D	Comments
01	Paging					
02	Time Display					
03	Arm AWAY					
04	Arm STAY					
05	Arm NIGHT-STAY					
06	Step Arming					
07	Device Activation					Device:
08	Comm. Test					
09	Macro Key 1					
10	Macro Key 2					
11	Macro Key 3					
12	Macro Key 4					
00	Emergency Keys:	zone 95	zone 99	zone 96	paging	
	Personal Emergency				n/a	
	Silent Alarm				n/a	
	Audible Alarm				n/a	
	Fire				n/a	

Emergency Keys: A = paired keys [1] / [\*] (zone 95); B = paired keys [\*] / [#] (zone 99); C = paired keys [3] / [#] (zone 96)

**OUTPUT RELAYS/POWERLINE CARRIER (X-10) DEVICES WORKSHEET FOR \*79, \*80 and \*81.**  
 Applicable only if Relays and/or Powerline Carrier Devices are to be used.

**\*79 RELAY/POWERLINE CARRIER (X-10) DEVICE MAPPING (Must program before using \*80)**

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

Output No.	OUTPUT TYPE (09-16 apply to FA168CPS only)			
	Module Addr.	Relay Pos (1-4)	X10 Unit No.	Description
09				
10				
11				
12				
13				
14				
15				
16				
17		On-Board Trigger 1		norm output =
18		On-Board Trigger 2		norm output =

**\*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	(see field *26 for Chime-by-Zone option)
04	Cross Zones	(see field *85 for Cross Zone Timer option)
05	Night-Stay Zones or GP	
06	Dial Delay Disable or GP	<b>SIA-Compliant Controls:</b> see field *50 for Dial Delay Disable option
07	Unlimited Reports or GP	<b>SIA-Compliant Controls:</b> see field *93 for Unlimited Reports option
08	General Purpose	
09	Zones activating pager 1	
10	Zones activating pager 2	
11	Zones activating pager 3	(FA168CPS)
12	Zones activating pager 4	(FA168CPS)

**\*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. Tamper of expansion units cannot be used to operate devices.

Output Function Number (FA168CPS: 1-48) (FA148CP: 1-24)	Activation Type and Detail				Partition Number (P) (if using ZT trig) 0 = any 1 = partition 1 2 = partition 2 3 = common	Event (for zone list/activated by)		Action 0 = off 1 = close 2 secs 2 = stay closed 3 = pulse 4 = toggle 5 = duration 1†† 6 = duration 2††	Output Number FA168CPS: 1-18 FA148CP: 1-8, 17, 18	Device Type R = relay T = trigger X = X10
	Activated by 0=delete 1=zn list 2=zn type 3=zn no.	Zone List (ZL) 1-8 = list	Zone Type (ZT) (see table below)	Zone No. (ZN) 00=none FA168CPS: 01-64 FA148CP: 01-06, 09-34, 49-56		By Zone List	By Zone No. 0 = restore 1 = alarm/flt/trbl			
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
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46										
47										
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 = Keypad           |
| 02 = Entry/Exit#2      | 07 = 24 Hr Audible           | 14 = Carbon Monoxide     | 81 = AAV Monitor Zone |
| 03 = Perimeter         | 08 = 24 Hr Aux               | 16 = Fire w/Verification | 90-91 = Configurable  |
| 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     | 43 = Communication Failure | 67 = Bell Failure        |
| 36 = **At Bell Timeout***   |                            | 68 = TELCO Line Fault    |
|                             |                            | 78 = Keypad red LED†††   |
|                             |                            | 79 = Keypad 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.



## ALPHA VOCABULARY LIST (For Entering Zone Descriptors)

000 (Word Space) - A - • 001 AIR • 002 <b>ALARM *</b> 004 ALLEY 005 AMBUSH • 006 AREA • 007 APARTMENT • 009 <b>ATTIC *</b> 010 AUDIO - B - • 012 <b>BABY *</b> • 013 <b>BACK *</b> • 014 <b>BAR</b> • 016 <b>BASEMENT *</b> • 017 <b>BATHROOM *</b> • 018 <b>BED</b> • 019 <b>BEDROOM *</b> 020 BELL • 021 <b>BLOWER</b> • 022 <b>BOILER</b> 023 BOTTOM 025 BREAK • 026 <b>BUILDING</b> - C - 028 CABINET • 029 <b>CALL</b> 030 CAMERA 031 CAR 033 CASH 034 CCTV 035 CEILING 036 CELLAR • 037 <b>CENTRAL</b> 038 CIRCUIT • 040 <b>CLOSED *</b> • 046 <b>COMPUTER</b> 047 CONTACT - D - • 048 <b>DAUGHTERS</b> 049 DELAYED • 050 <b>DEN *</b> 051 DESK • 052 <b>DETECTOR *</b> • 053 <b>DINING *</b> 054 DISCRIMINATOR 055 DISPLAY	• 057 <b>DOOR *</b> • 059 <b>DOWN</b> • 060 <b>DOWNSTAIRS</b> 061 DRAWER • 062 <b>DRIVEWAY</b> • 064 <b>DUCT</b> - E - • 065 <b>EAST</b> 066 ELECTRIC 067 <b>EMERGENCY *</b> 068 ENTRY • 069 <b>EQUIPMENT</b> • 071 <b>EXIT *</b> 072 EXTERIOR - F - • 073 <b>FACTORY</b> 075 FAMILY • 076 <b>FATHERS</b> • 077 <b>FENCE</b> • 079 <b>FIRE *</b> • 080 <b>FLOOR *</b> 081 FLOW 082 FOIL • 083 <b>FOYER</b> 084 FREEZER • 085 <b>FRONT *</b> - G - • 089 <b>GARAGE *</b> • 090 <b>GAS</b> 091 GATE • 092 <b>GLASS</b> 093 GUEST 094 GUN - H - • 095 <b>HALL *</b> • 096 <b>HEAT</b> 098 HOLDUP 099 HOUSE 100 INFRARED • 101 <b>INSIDE *</b> 102 INTERIOR 103 INTRUSION - J - 104 JEWELRY - K - • 105 <b>KITCHEN *</b> -	L - • 106 <b>LAUNDRY *</b> • 107 <b>LEFT</b> 108 LEVEL • 109 <b>LIBRARY *</b> • 110 <b>LIGHT</b> 111 LINE • 113 <b>LIVING *</b> • 114 <b>LOADING</b> 115 LOCK 116 LOOP 117 LOW • 118 <b>LOWER</b> - M - • 119 <b>MACHINE</b> 121 MAIDS 122 MAIN * • 123 <b>MASTER *</b> • 125 <b>MEDICAL *</b> 126 MEDICINE 128 MONEY 129 MONITOR • 130 <b>MOTHERS</b> • 131 <b>MOTION *</b> 132 MOTOR - N - • 134 <b>NORTH</b> 135 NURSERY - O - • 136 <b>OFFICE *</b> • 138 <b>OPEN *</b> 139 OPENING • 140 <b>OUTSIDE</b> 142 OVERHEAD - P - 143 PAINTING • 144 <b>PANIC *</b> 145 PASSIVE • 146 <b>PATIO *</b> 147 PERIMETER • 148 <b>PHONE</b> 150 POINT 151 <b>POLICE *</b> 152 <b>POOL *</b> • 153 <b>POWER</b> - R - 155 RADIO	• 156 <b>REAR</b> 157 RECREATION 159 REFRIGERATION 160 RF • 161 <b>RIGHT</b> • 162 <b>ROOM *</b> 163 ROOF - S - 164 SAFE 165 SCREEN 166 SENSOR • 167 <b>SERVICE</b> • 168 <b>SHED *</b> 169 SHOCK • 170 <b>SHOP *</b> 171 SHORT • 173 <b>SIDE *</b> 174 SKYLIGHT 175 <b>SLIDING *</b> • 176 <b>SMOKE *</b> • 178 <b>SONS</b> • 179 <b>SOUTH</b> 180 SPRINKLER • 182 <b>STATION</b> 184 STORE • 185 <b>STORAGE *</b> 186 STORY 190 <b>SUPERVISED *</b> 191 SUPERVISION 192 SWIMMING 193 SWITCH - T - 194 TAMPER 196 TELCO 197 TELEPHONE • 199 <b>TEMPERATURE</b> 200 THERMOSTAT • 201 <b>TOOL</b> 202 TRANSMITTER - U - • 205 <b>UP</b> • 206 <b>UPPER</b> • 207 <b>UPSTAIRS *</b> • 208 <b>UTILITY *</b> - V - 209 VALVE 210 VAULT 212 VOLTAGE	- W - 213 WALL 214 WAREHOUSE • 216 <b>WEST</b> • 217 <b>WINDOW *</b> • 219 <b>WING</b> 220 WIRELESS - X - 222 XMITTER - Y - 223 YARD - Z - 224 ZONE (No.) • 225 <b>ZONE *</b> • 226 0 • 227 1 • 228 1ST * • 229 2 • 230 2ND * • 231 3 • 232 3RD * • 233 4 • 234 4TH • 235 5 • 236 5TH • 237 6 • 238 6TH • 239 7 • 240 7TH • 241 8 • 242 8TH • 243 9 • 244 9TH 245 Custom Word #1 246 Custom Word #2 247 Custom Word #3 248 Custom Word #4 249 Custom Word #5 250 Custom Word #6 251 Custom Word #7 252 Custom Word #8 253 Custom Word #9 254 Custom Word #10
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**Note:** Bulleted (•) words in **boldface type** are those that are also available for use by the FA4285/FA4286 Phone Module. If using a Phone module, and words other than these are selected for Alpha descriptors, the module will not provide announcement of those words.

*Italicized* words followed by an asterisk indicate those words supported by the FA560VKP Voice Keypad.

### CHARACTER (ASCII) CHART (For Adding Custom Words)

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

## 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).

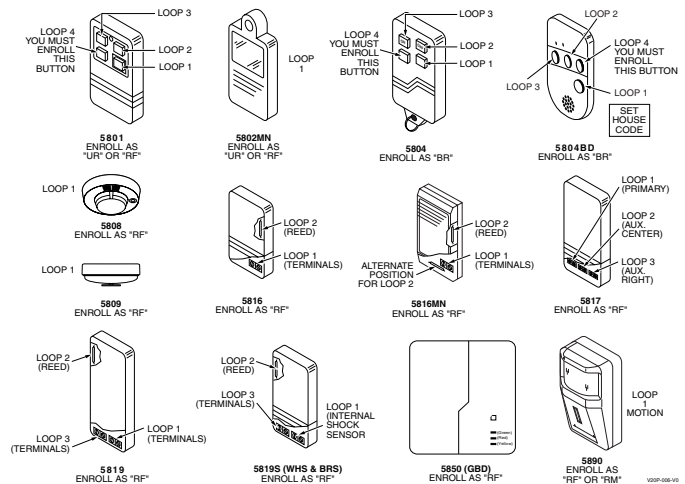
### WIRELESS INPUT TYPES

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

The 5827BD and 5800TM can be used in UL Listed Residential Burglar installations.

### Wireless Key Predefined Default Templates

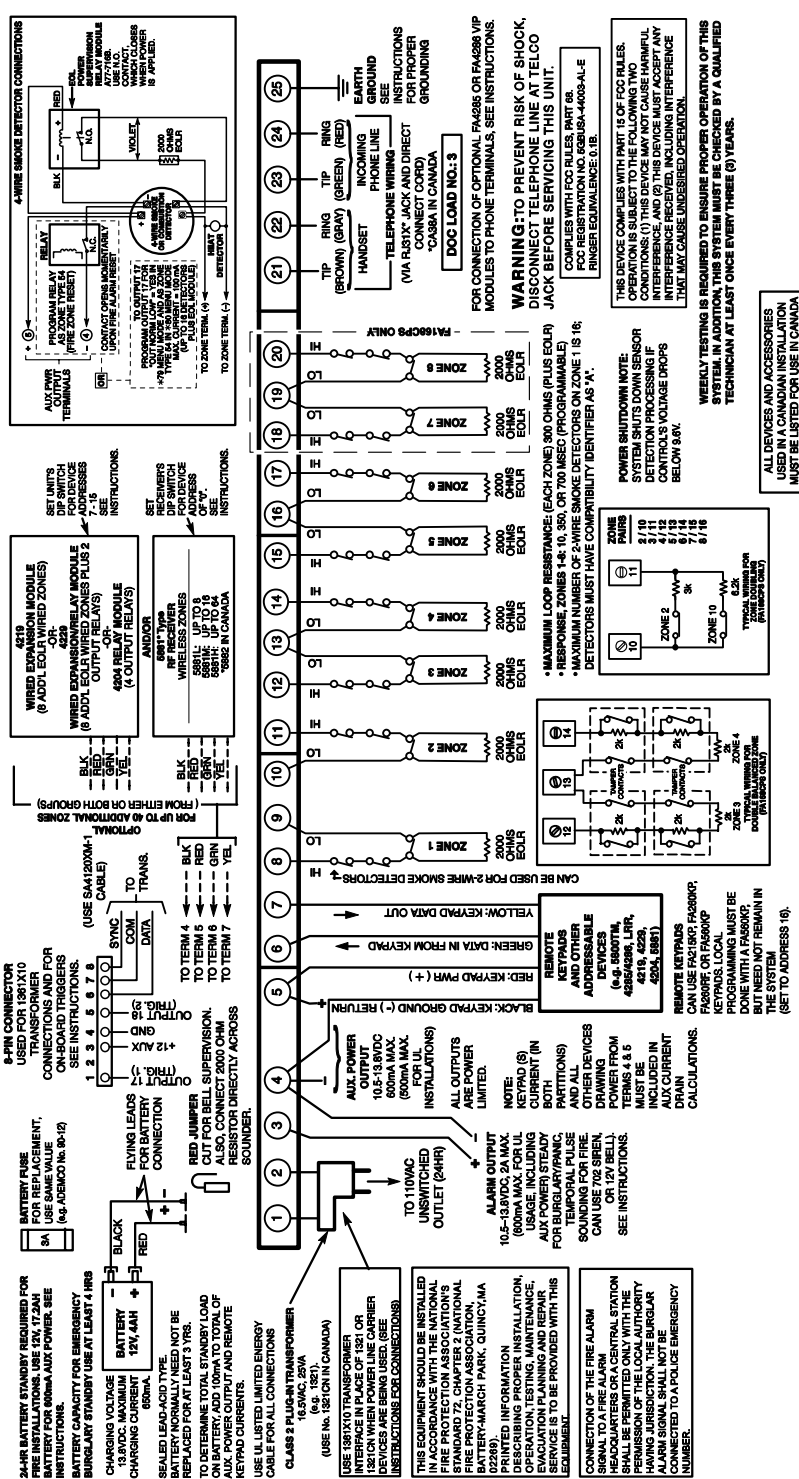
For 5804	Loop	Function	Zone Type	For 5804BD	Loop	Function	Zone Type
TEMPLATE 1	1	No Response	23	TEMPLATE 4	1	No Response	23
	2	Disarm	22		2	No Response	23
	3	Arm Away	21		3	Arm Away	21
	4	No Response	23		4	Disarm	22
TEMPLATE 2	1	No Response	23	TEMPLATE 5	1	No Response	23
	2	Disarm	22		2	Arm Stay	20
	3	Arm Away	21		3	Arm Away	21
	4	Arm Stay	20		4	Disarm	22
TEMPLATE 3	1	24-hour audible	7	TEMPLATE 6	1	24-hour audible	7
	2	Disarm	22		2	Arm Stay	20
	3	Arm Away	21		3	Arm Away	21
	4	Arm Stay	20		4	Disarm	22

### Table of Device Addresses

This Device	Uses Address	Reports as††	Enabled By...
RF Receiver	00	100	*56 zone programming: input device type entry
AUI 1	01	101	automatic if AUI enable field *189 enabled for AUI 1
AUI 2	02	102	automatic if AUI enable field *189 enabled for AUI 2
Long Range Radio	03	103	automatic if output to long range radio field *29 enabled
FA4286 Voice Module	04	104	automatic if phone module access code field *28 enabled
Zone Expanders (4219/4229):			*56 zone programming: input device type entry, then:
module 1 (for zones 09 - 16)	07	107	automatic if zone no. 9-16 entered as AW type or relay assigned
module 2 (for zones 17 - 24)	08	108	automatic if zone no. 17-24 entered as AW type or relay assigned
module 3 (for zones 25 - 32)	09**	109	automatic if zone no. 25-32 entered as AW type or relay assigned
module 4 zones 33 - 40	10**	110	automatic if zone no. 33-40 entered as AW type or relay assigned
module 5 zones 41 - 48	11**	111	automatic if zone no. 41-48 entered as AW type or relay assigned
Relay Modules (4204):			*79 output device programming: device address prompt:
module 1	12	112	entered at device address prompt
module 2	13	113	entered at device address prompt
module 3	14**	114	entered at device address prompt
module 4	15**	115	entered at device address prompt
Keypads:			data field programming as listed below:
keypad 1	16	n/a	always enabled, all sounds enabled.
keypad 2	17	n/a	data field *190
keypad 3	18	n/a	data field *191
keypad 4	19	n/a	data field *192
keypad 5	20	n/a	data field *193
keypad 6	21	n/a	data field *194
keypad 7	22	n/a	data field *195
keypad 8	23	n/a	data field *196
5800TM Module	28	n/a	automatic

\*\* These module addresses apply to FA168CPS 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 keypad display options.



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