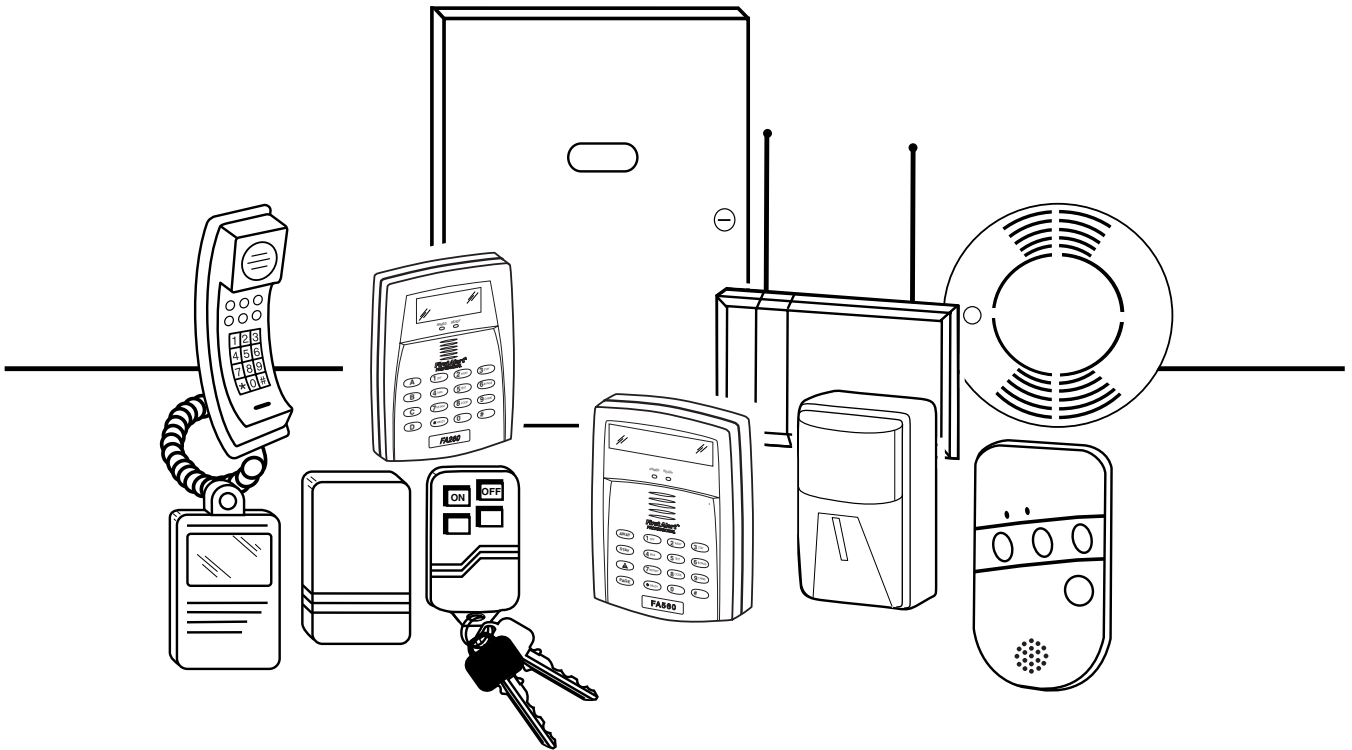


.....**FA168CPS / FA168CPSSIA**
FA148CP / FA148CPSIA
Security Systems

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
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 [*] to end the entry. The next data field number is displayed.
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 thru *46 , *94 , 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
*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**. 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
SYSTEM SETUP (*20–*29)			
* 20	INSTALLER CODE	<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 SIA-Compliant Controls: 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 SIA-Compliant Controls: 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=" _ _ _ _ "/> 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 SIA-Compliant Controls: UL: not for fire or UL installations
28	ACCESS CODE FOR PHONE MODULE	<input type="text" value=" _ "/> [00] (Partition 1 only)	00 = disable; 1st digit: enter 1–9; 2nd digit: enter # + 11 for "", or # + 12 for "#". SIA-Compliant Controls: 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 SIA-Compliant Controls: 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 SIA-Compliant Controls: 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; SIA-Compliant Controls: 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=" _ _ _ "/> [60,60] Part. 1 Part. 2 SIA-Compliant Controls: UL: see inst. instr. for requirements.	00 - 96 = 0 - 96 secs; 97 = 120 secs SIA Guidelines: minimum exit delay is 45 seconds SIA-Compliant Controls: 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=" _ _ _ "/> [30,30] Part. 1 Part. 2 SIA-Compliant Controls: 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) SIA-Compliant Controls: 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=" _ _ _ "/> [30,30] Part. 1 Part. 2	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 SIA-Compliant Controls: 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 SIA-Compliant Controls: UL: must be "1" for UL Commercial Burglar Alarm inst.
*39	POWER UP IN PREVIOUS STATE	<input type="checkbox"/> [1]	0 = no; 1 = yes SIA-Compliant Controls: UL: must be "1" SIA Guidelines: must be "1" SIA-Compliant Controls: 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.

*190 KEYPAD 2 DEVICE ADDRESS 17	<input type="checkbox"/> [0] [0]	Partition/ Enable† †FA168CPS: 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 DEVICE ADDRESS 18	<input type="checkbox"/> [0] [0]	Part./Enable† Sound	See field *190 for entries.
*192 KEYPAD 4 DEVICE ADDRESS 19	<input type="checkbox"/> [0] [0]		See field *190 for entries.
*193 KEYPAD 5 DEVICE ADDRESS 20	<input type="checkbox"/> [0] [0]		See field *190 for entries.
*194 KEYPAD 6 DEVICE ADDRESS 21	<input type="checkbox"/> [0] [0]		See field *190 for entries.
*195 KEYPAD 7 DEVICE ADDRESS 22	<input type="checkbox"/> [0] [0]		See field *190 for entries.
*196 KEYPAD 8 DEVICE ADDRESS 23	<input type="checkbox"/> [0] [0]		See field *190 for entries.
*197 EXIT TIME DISPLAY INTERVAL	<input type="checkbox"/> [0]		0 = no display; 1-5 = seconds between display refresh NOTE: 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.
*198 DISPLAY PARTITION NUMBER (FA168CPS; for Alpha Display Keypads)	<input type="checkbox"/> [0]		0 = no; 1 = yes (partition no. appears on Alpha Display)
*199 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"> Provides entry delay if the control is armed in the Away or Stay modes. Exit delay begins whenever the control is armed, regardless of the arming mode selected.
02	Entry/Exit Burglary no. 2	<ul style="list-style-type: none"> Provides a secondary entry delay, in same manner as entry delay #1.
03	Perimeter Burglary	<ul style="list-style-type: none"> Provides an instant alarm if the zone is faulted when the panel is armed in any mode.
04	Interior Follower	<ul style="list-style-type: none"> 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. Bypassed automatically when the panel is armed in the Stay or Instant modes.
05	Trouble by Day/Alarm by Night	<ul style="list-style-type: none"> Provides an instant alarm if faulted when armed in the Away, Stay, Instant or Maximum. During the disarmed state (day), the system will provide a latched trouble sounding from the keypad (and a central station report, if desired).
06	24-hour Silent Alarm	<ul style="list-style-type: none"> Emergency button zone. Sends a report but provides no keypad display or sounding.
07	24-hour Audible Alarm	<ul style="list-style-type: none"> Emergency button zone. Sends a report and sounds alarm at the keypad and ext. sounder.
08	24-hour Auxiliary Alarm	<ul style="list-style-type: none"> 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).
09	Fire	<ul style="list-style-type: none"> 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. 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.
10	Interior w/Delay	<ul style="list-style-type: none"> 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.
12	Monitor Zone	<ul style="list-style-type: none"> 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. 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. 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."
14	Carbon Monoxide	<ul style="list-style-type: none"> The bell output pulses when this zone type is faulted. Always active, cannot be bypassed.
16	Fire w/Verification	<ul style="list-style-type: none"> Provides a fire alarm when zone is shorted, but only after alarm verified. Provides a trouble response when zone is open.
20	Arm-Stay	<ul style="list-style-type: none"> Button zone. Arms the system in Stay mode when the zone is activated. User code for button must be assigned.
21	Arm-Away	<ul style="list-style-type: none"> Button zone. Arms the system in Away mode when the zone is activated. User code for button must be assigned.
22	Disarm	<ul style="list-style-type: none"> Button zone. Disarms the system when the zone is activated. User code for button must be assigned.
23	No Alarm Response	<ul style="list-style-type: none"> Can be used on a zone when an output relay action is desired, but with no accompanying alarm (e.g., lobby door access).
24	Silent Burglary	<ul style="list-style-type: none"> 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.
77	Keyswitch	<ul style="list-style-type: none"> Assign to zone wired to a keyswitch.
81	AAV Monitor Zone	<ul style="list-style-type: none"> Assign to zone connected to AAV module.
90-93	Installer Defined	<ul style="list-style-type: none"> These zone types can be programmed for 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.

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:				
Intact EOL <i>RF zone normal</i>	Open <i>RF zone N/A</i>	Shorted <i>RF zn off-normal</i>	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 + 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:				
Intact EOL <i>RF zone normal</i>	Open <i>RF zone N/A</i>	Shorted <i>RF zn off-normal</i>	Byp. when disarmed	Byp. when armed
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		

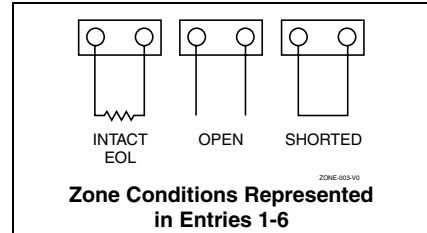
ENTRY 5 (See note 5 for RF zones)		ENTRY 6 (See note 5 for RF zones)		
Response when armed AWAY and zone is:				
Intact EOL <i>RF zone normal</i>	Open <i>RF zone N/A</i>	Shorted <i>RF zn off-normal</i>	Dial Delay (see field *50)	Fault Delay (see field *87)
0 = normal 1 = alarm 2 = trouble 3 = fault	0 = 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							
21							
22							
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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	SIA-Compliant Controls: see field *50 for Dial Delay Disable option
07	Unlimited Reports or GP	SIA-Compliant Controls: 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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41										
42										
43										
44										
45										
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.

Schedules (installer code + [#] + [6] [4]; master code can only access schedules 01-16 for FA168CPS, 01-04 for FA148CP, and events 00-07 for both controls; FA148CP supports up to 8 schedules, FA168CPS supports up to 32 schedules)

No.	Event (see list below)	Device No. for "01" events: enter 01-18	Group No. for "02" events: enter 1-8	Partition for "04-06" events: enter 1, 2, or 3	Start Time/ Days	Stop Time/ Days	Repeat (1-4)	Random (yes/no)
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								

Events: Master/Installer Installer Only
 00 = clear event 04 = forced STAY arm 10 = display custom words 8-10
 01 = device on/off 05 = forced AWAY arm 11 = periodic test report
 02 = user access 06 = auto disarm
 03 = latch key report 07 = display "reminder"

Repeat Options: 0 = none; 1 = repeat weekly; 2 = repeat every other week; 3 = repeat every third week; 4 = repeat every fourth week

ALPHA VOCABULARY LIST (For Entering Zone Descriptors)

000 (Word Space)	• 057 DOOR *	L –	• 156 REAR	– W –
– A –	• 059 DOWN	• 106 LAUNDRY *	157 RECREATION	213 WALL
• 001 AIR	• 060 DOWNSTAIRS	• 107 LEFT	159 REFRIGERATION	214 WAREHOUSE
• 002 ALARM *	061 DRAWER	108 LEVEL	160 RF	• 216 WEST
004 ALLEY	• 062 DRIVEWAY	• 109 LIBRARY *	• 161 RIGHT	• 217 WINDOW *
005 AMBUSH	• 064 DUCT	• 110 LIGHT	• 162 ROOM *	• 219 WING
• 006 AREA	– E –	111 LINE	163 ROOF	220 WIRELESS
• 007 APARTMENT	• 065 EAST	• 113 LIVING *	– S –	– X –
• 009 ATTIC *	066 ELECTRIC	• 114 LOADING	164 SAFE	222 XMITTER
010 AUDIO	067 EMERGENCY *	115 LOCK	165 SCREEN	– Y –
– B –	068 ENTRY	116 LOOP	166 SENSOR	223 YARD
• 012 BABY *	• 069 EQUIPMENT	117 LOW	• 167 SERVICE	– Z –
• 013 BACK *	• 071 EXIT *	• 118 LOWER	• 168 SHED *	224 ZONE (No.)
• 014 BAR	072 EXTERIOR	– M –	169 SHOCK	• 225 ZONE *
• 016 BASEMENT *	– F –	• 119 MACHINE	• 170 SHOP *	• 226 0
• 017 BATHROOM *	• 073 FACTORY	121 MAIDS	171 SHORT	• 227 1
• 018 BED	075 FAMILY	122 MAIN *	• 173 SIDE *	• 228 1ST *
• 019 BEDROOM *	• 076 FATHERS	• 123 MASTER *	174 SKYLIGHT	• 229 2
020 BELL	• 077 FENCE	• 125 MEDICAL *	175 SLIDING *	• 230 2ND *
• 021 BLOWER	• 079 FIRE *	126 MEDICINE	• 176 SMOKE *	• 231 3
• 022 BOILER	• 080 FLOOR *	128 MONEY	• 178 SONS	• 232 3RD *
023 BOTTOM	081 FLOW	129 MONITOR	• 179 SOUTH	• 233 4
025 BREAK	082 FOIL	• 130 MOTHERS	180 SPRINKLER	• 234 4TH
• 026 BUILDING	• 083 FOYER	• 131 MOTION *	• 182 STATION	• 235 5
– C –	084 FREEZER	132 MOTOR	184 STORE	• 236 5TH
028 CABINET	• 085 FRONT *	– N –	• 185 STORAGE *	• 237 6
• 029 CALL	– G –	• 134 NORTH	186 STORY	• 238 6TH
030 CAMERA	• 089 GARAGE *	135 NURSERY	190 SUPERVISED *	• 239 7
031 CAR	• 090 GAS	– O –	191 SUPERVISION	• 240 7TH
033 CASH	091 GATE	• 136 OFFICE *	192 SWIMMING	• 241 8
034 CCTV	• 092 GLASS	• 138 OPEN *	193 SWITCH	• 242 8TH
035 CEILING	093 GUEST	139 OPENING	– T –	• 243 9
036 CELLAR	094 GUN	• 140 OUTSIDE	194 TAMPER	• 244 9TH
• 037 CENTRAL	– H –	142 OVERHEAD	196 TELCO	245 Custom Word #1
038 CIRCUIT	• 095 HALL *	– P –	197 TELEPHONE	246 Custom Word #2
• 040 CLOSED *	• 096 HEAT	143 PAINTING	• 199 TEMPERATURE	247 Custom Word #3
• 046 COMPUTER	098 HOLDUP	• 144 PANIC *	200 THERMOSTAT	248 Custom Word #4
047 CONTACT	099 HOUSE	145 PASSIVE	• 201 TOOL	249 Custom Word #5
– D –	100 INFRARED	• 146 PATIO *	202 TRANSMITTER	250 Custom Word #6
• 048 DAUGHTERS	• 101 INSIDE *	147 PERIMETER	– U –	251 Custom Word #7
049 DELAYED	102 INTERIOR	• 148 PHONE	• 205 UP	252 Custom Word #8
• 050 DEN *	103 INTRUSION	150 POINT	• 206 UPPER	253 Custom Word #9
051 DESK	– J –	151 POLICE *	• 207 UPSTAIRS *	254 Custom Word #10
• 052 DETECTOR *	104 JEWELRY	152 POOL *	• 208 UTILITY *	
• 053 DINING *	– K –	• 153 POWER	– V –	
054 DISCRIMINATOR	• 105 KITCHEN *	– R –	209 VALVE	
055 DISPLAY	–	155 RADIO	210 VAULT	
			212 VOLTAGE	

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).

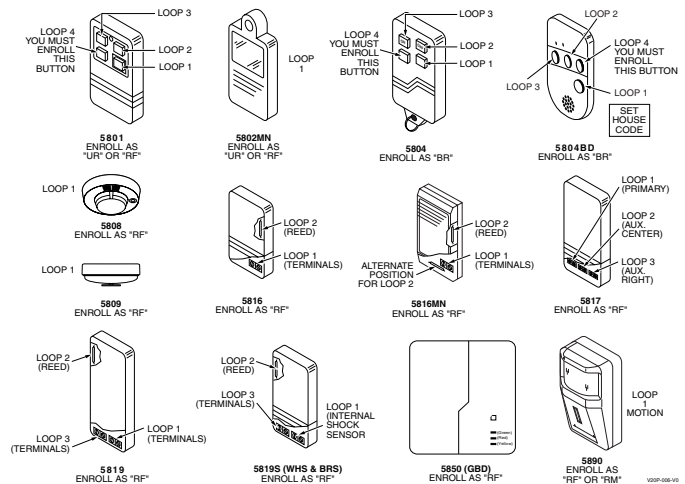
WIRELESS INPUT TYPES

"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

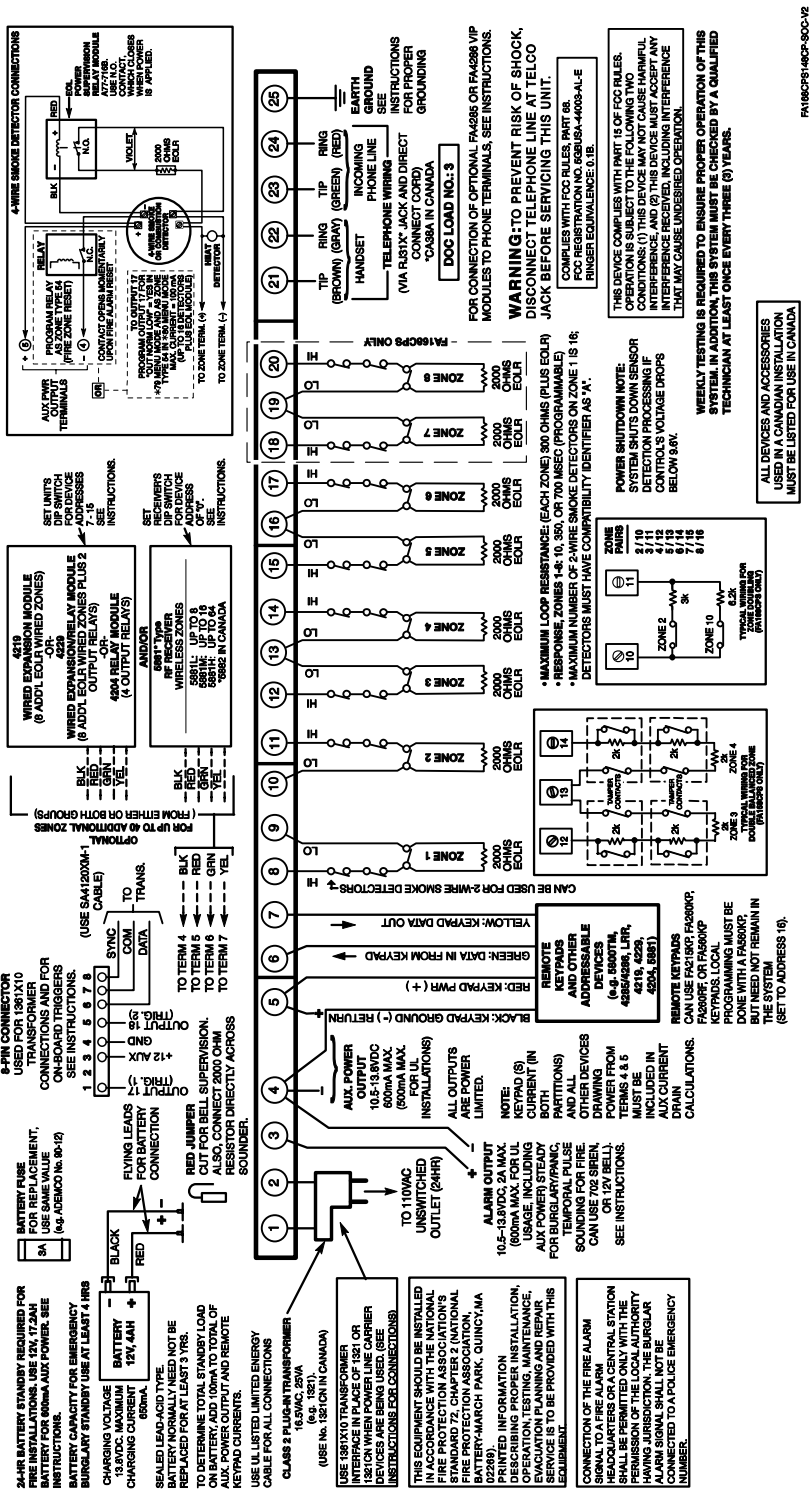
For 5804	Loop	Function	Zone Type	For 5804BD	Loop	Function	Zone Type
TEMPLATE 1	1	No Response	23	TEMPLATE 4	1	No Response	23
	2	Disarm	22		2	No Response	23
	3	Arm Away	21		3	Arm Away	21
	4	No Response	23		4	Disarm	22
TEMPLATE 2	1	No Response	23	TEMPLATE 5	1	No Response	23
	2	Disarm	22		2	Arm Stay	20
	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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