

# FIRST ALERT FA2100C PROGRAMMING FORM

**FIELD FUNCTION** **PROGRAMMED VALUES** [ ] = Default Value

## SYSTEM SETUP (\*20-\*27)

- \*20 MASTER CODE     [5] [1] [2] [0]  
 Enter 4 digits, 0-9  
**Note:** Master code for installer usage only. Program user 2 code for system's principle user.
- \*21 QUICK ARM ENABLE †  [0]  
 0 = no, 1 = yes
- \*23 FORCED BYPASS FUNCTION †  [0]  
 0 = none, 1 = bypass open zones
- \*27 OUTPUT TO LONG RANGE RADIO †  [0]  
 0 = no; 1 = yes If yes selected, dialer reports to PRIMARY No. (field \*47) will also be sent via LRR. All dialer and LRR reports will be in Contact ID format (overriding field \*46 selection).  
 This option has not been evaluated by U.L. and must be programmed to "0."

## MISCELLANEOUS OPTIONS (\*28-\*39)

- \*28 SINGLE ALARM SOUNDING/ZONE †  [0]  
 0 = no, 1 = yes
- \*30 ALARM BELL TIMEOUT †  [0]  
 0 = none, 1 = 4 min; 2 = 8 min; 3 = 12 min; 4 = 16 min  
 For fire installations, bell must be programmed for option 0, 2, 3, or 4.
- \*31 AUXILIARY RELAY TIMEOUT †  [4]  
 0 = none; 1 = 4 min; 2 = 8 min; 3 = 12 min; 4 = 16 min
- \*32 SUPERVISORY ON OPEN/SHORT †  [0]  
 0 = Trouble on Open/Supv on Short; 1 = Supv on Open/Supv on Short
- \*33 BACK-UP DIALER PULSE/TONE †  [0]  
 0 = Pulse Dial; 1 = Tone Dial
- \*34 AUXILIARY RELAY FUNCTION †  [1]  
 0 = Trouble/Supv; 1 = Alarm (silenced by: code + OFF entry); 2 = Smoke Detector Reset; 3 = Battery Save; 4 = Alarm (silenced by: code + #67 entry)  
**Note:** When function 1 or 4 is selected, program fields \*85 and \*86 to select zones which will trigger AUX RELAY. When function 1 is selected, program AUX RELAY timeout in field \*31.
- \*35 AUXILIARY RELAY ARMING DING †  [0]  
 0 = Disable, 1 = Enable If enabled, field \*34 must also be set to 1.
- \*36 ZONE 4 ALT TAMPER FUNCTION †  [0]  
 0 = Disable 1 = Enable If enabled, program zone 4 for day trouble, night alarm or 24 hour audible response in field \*56.
- \*37 PS24 MOD AC/LOW BAT INTRFACE †  [0]  
 0 = Disable, 1 = Enable If enabled, wire PS24 AC, LOW BAT outputs to J5 header, pins 8, 9.
- \*38 ENTRY DELAY †  [2]  
 0 = 0 sec; 1 = 20 sec; 2 = 30 sec; 3 = 45 sec; 4 = 60 sec; 5 = 90 sec  
 EXIT Delay = ENTRY Delay + 15 sec
- \*39 AUDIBLE EXIT WARNING †  [1]  
 0 = no; 1 = yes

## DIALER PROGRAMMING (\*40-\*50)

- In fields \*40, \*41, \*42, enter up to the number of digits shown. Do not fill unused spaces. Enter 0-9; #+11 for '\*'; #+12 for '#'; #+13 for a pause.
- \*40 PABX ACCESS CODE      
 Enter up to 4 digits. If fewer than 4 digits entered, exit by pressing \* (and press 41, if entering next field). To clear entries from field, press \*40\*.
  - \*41 PRIMARY PHONE No.              
 Enter up to 12 digits. If fewer than 12 digits entered, exit by pressing \* (and press 42, if entering next field). To clear entries from field, press \*41\*.
  - \*42 SECONDARY PHONE No.              
 Enter up to 12 digits. If fewer than 12 digits entered, exit by pressing \* (and press 43, if entering next field). To clear entries from field, press \*42\*.

★43 SUBSCRIBER ACCT No.

Enter 0-9; #+11 for B; #+12 for C; #+13 for D; #+14 for E; [#+15 for F]. Enter \* as 4th digit, if 3+1 dialer reporting is to be used. To clear entries from field, press ★43★.

Examples:

For Acct No. 1234, enter: 1 2 3 4

For Acct No. B234, enter: #+11 #+11 2 3 4

For Acct No. 123, enter: 1, , 2, , 3, \* 1 2 3 \*

★45 MAIN DIALER PULSE/TONE

†  [0]

0 = Pulse Dial; 1 = Tone Dial

★46 REPORT FORMAT

[0]

Also see field ★27.

0 = 3+1, 4+1 ADEMCO L/S STANDARD      6 or undefined = 4+2 ADEMCO EXPRESS  
 1 = 3+1, 4+1 RADIONICS STANDARD      7 = ADEMCO CONTACT ID REPORTING  
 2 = 4+2 ADEMCO L/S STANDARD      8 = 3+1, 4+1 ADEMCO L/S EXPANDED  
 3 = 4+2 RADIONICS STANDARD      9 = 3+1, 4+1 RADIONICS EXPANDED

★47 SPLIT/DUAL REPORTING

[0]

**TO PRIMARY PHONE No.**

**TO SECONDARY PHONE No.**

0 = Disable (Backup report only)  
 1 = Alarms, Restore, Cancel  
 2 = All Reports except Open/Close, Test  
 3 = Alarms, Restore, Cancel  
 4 = All Reports except Open/Close, Test  
 5 = All Reports (Dual Reporting)

N/A  
 Other Reports  
 Open/Close, Test  
 All Reports  
 All Reports  
 All Reports

★48 15 SEC DIALER DELAY (BURG)

†  [0]

0 = no; 1 = yes Must be set for "0" for UL burglary installations.

★49 PERIODIC TEST MESSAGE

†  [1]

0 = none; 1 = 24 hrs; 2 = wkly; 3 = mnthly. Enter Test Code in fields ★64 and ★84. Must be a "1" for fire installations.

★50 SESCOA/RADIONICS SELECT

†  [0]

0 = Radionics (0-9, B-F reporting); 1 = SESCOA (only reporting)  
 Select 0 for all other formats.

★51 BELL ARMING DING

†  [0]

0 = no; 1 = yes

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

**ZONE ASSIGNMENTS/ALARM REPORT CODES (★56)**

★56 ZONE PROGRAMMING (See explanation below table)

ZONE No. (Zn)	ZONE DESCRIPTION	ZONE TYPE (ZT)	ALARM RPT CODE (Hex) (RC)
Zone 01	Wired Zone	<input type="text"/> <input type="text"/> [9]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 02	Wired Zone	<input type="text"/> <input type="text"/> [9]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 03	Wired Zone	<input type="text"/> <input type="text"/> [9]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 04	Wired Zone	<input type="text"/> <input type="text"/> [9]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 05	Wired Zone	<input type="text"/> <input type="text"/> [9]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 06	Bell Supervision	<input type="text"/> <input type="text"/> [19]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 07	Keypad Panic (★&#, or B key)	<input type="text"/> <input type="text"/> [00]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 08	Keypad Duress	-- --	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 10	Earth Ground Supervision	<input type="text"/> <input type="text"/> [19]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 11	Main Dialer Supervision	<input type="text"/> <input type="text"/> [19]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 12	Back-up Dialer Supervision	<input type="text"/> <input type="text"/> [19]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 13	Auxiliary Relay Disable	0 0	0 0 0 0
Zone 95	Keypad Emergency (1★, or A key)	<input type="text"/> <input type="text"/> [00]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Zone 96	Keypad Emergency (3&#, or C key)	<input type="text"/> <input type="text"/> [00]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

**IN THE ABOVE ZONE ASSIGNMENT TABLE :**

**Zn = ZONE NUMBER**      Wired Zones 01-05, System Zones 06, 10-13, and Keypad Zones 07, 08, 95 & 96 are available and may be programmed.

**ZT = ZONE TYPE**      00 = Zone Not Used      05 = Trouble Day/Alarm night      10 = Interior w/Delay  
 01 = Entry/Exit      06 = 24 Hr Silent      16 = Fire, w/ Verification  
 02 = Do Not Use      07 = 24 Hr Audible      17 = Fire Waterflow  
 03 = Perimeter      08 = 24 Hr Aux      18 = Fire Supervisory  
 04 = Interior Follower      09 = Fire, no Verification      19 = 24 Hr Trouble

ZT DEFAULT VALUES ARE SHOWN WITHIN BRACKETS [ ] ADJACENT TO ZT BOXES IN ABOVE TABLE

**Note:** Zones programmed for fire alarm response (types 09, 16, 17) must be programmed to trigger the bell in fields \*85 and \*86.

**Note:** California state Fire Marshall does not permit use of response type 16 (fire alarm with verification).

**RC = ALARM REPORT CODE** • Two Hex Digits. For each Hex Digit, enter: 00–09 for 0–9, 10 for A, 11 for B, 12 for C, 13 for D, 14 for E, 15 for F.

- If "00" is entered in the first pair of boxes, there will be no report for that zone.
- For contact ID reporting, this is an enabling code only. Make any hex digit entry (other than "00") in the first pair of boxes. The second pair of boxes will be ignored.
- RC Default Value for each zone is [00][00]

\*57 ZONE TYPE 18 DELAY ENABLE  [1]

0 = Disable Delay (ignore delay programmed in field \*78)  
1 = Enable Delay (use delay programmed in field \*78) (default)

**SYSTEM STATUS REPORT CODES (\*58-\*68)**

\*58 SUPERVISORY REPORT CODE

\*59 SUPERVISORY RESTORE REPORT CODE

\*60 TROUBLE REPORT CODE

\*61 BYPASS REPORT CODE

\*62 AC LOSS REPORT CODE

\*63 LOW BATTERY REPORT CODE

\*64 NORMAL DIALER TEST REPORT CODE

**TO PROGRAM SYSTEM STATUS, & RESTORE REPORT CODES (\*58-\*74):**

**With a 3+1 or 4+1 Standard Format:** Enter a code in the *first* box: 1-9, 0, B, C, D, E, or F. Enter "#+10" for 0, "#+11" for B, "#+12" for C, "#+13" for D, "#+14" for E, "#+15" for F.

A "0" (*not* "#+10") in the *first* box will disable a report.

A "0" (*not* "#+10") in the *second* box will result in automatic advance to the next field when programming.

**With an Expanded or 4+2 Format:** Enter codes in *both* boxes (1st and 2nd digits) for 1-9, 0, or B-F, as described above.

A "0" (*not* "#+10") in the *second* box will eliminate the expanded message for that report.

A "0" (*not* "#+10") in *both* boxes will disable the report.

**With Ademco Contact ID Reporting:** Enter any digit (other than "0") in the *first* box, to enable zone to report (entries in the *second* boxes will be ignored).

A "0" (*not* "#+10") in the *first* box will disable the report.

Examples:

For Code **3** (Single Digit), enter

For Code **32** (Two Digits), enter

For Code **B2** (Hexadecimal) enter

\*65 OPEN/EXIT ALARM REPORT CODE

2nd digit of OPEN REPORT is automatically sent as the user number if expanded or 4+2 reporting is selected.

2nd digit of EXIT ALARM REPORT is automatically sent as the 2nd digit of the zone alarm report code programmed in \*56, if expanded or 4+2 reporting is selected.

\*66 AWAY/STAY CLOSE REPORT CODE

2nd digit of any CLOSE REPORT is automatically sent as the user number, if expanded or 4+2 reporting is selected.

\*68 CANCEL REPORT CODE

**RESTORE REPORT CODES (\*69-\*74)**

\*69 GROUP RESTORES for TROUBLE & BYPASS:  [0]

0 = one report for each zone restore, 1 = common report after zones 1-6, 10-12 have restored

**Note:** "1" not applicable to Contact ID reporting. Must be "0" for fire and U.L. burglary installations.

\*70 ALARM RESTORE REPORT CODE

2nd digit is automatically sent as the 2nd digit of the zone alarm report code programmed in \*56, if expanded or 4+2 reporting is selected.

\*71 TROUBLE RESTORE REPORT CODE

\*72 BYPASS RESTORE REPORT CODE

\*73 AC RESTORE REPORT CODE

\*74 LOW BAT RESTORE REPORT CODE

**MISCELLANEOUS OPTIONS(\*76-\*92)**

\*76 WATERFLOW ALARM SILENCING  [0]

0 = manual silence only 1 = automatic silence when waterflow ceases (provided no other fire alarms present)

Automatic silence option may only be used with permission of local AHJ.

