

5110XM
Control / Communicator
Programming Form

Programming Field Settings for UL864 Compliance

NOTICE TO USERS, INSTALLERS, AUTHORITIES HAVING JURISDICTION, AND OTHER INVOLVED PARTIES			
This product incorporates field-programmable software. In order for the product to comply with the requirements in the Standard for Control Units and Accessories for Fire Alarm Systems, UL864, certain programming features or options must be limited to specific values or not used at all as indicated below.			
Program feature or option	Permitted in UL864? Y/N	Possible settings	Settings permitted in UL 864
*30 ALARM BELL TIMEOUT	Y	0 = no timeout 1 = 4 minutes 2 = 8 minutes 3 = 12 minutes 4 = 16 minutes	Must be a minimum of 6 minutes.
*31 AUXILIARY RELAY TIMEOUT	Y	0 = no timeout 1 = 4 minutes 2 = 8 minutes 3 = 12 minutes 4 = 16 minutes	Must be a minimum of 6 minutes.
*95 RING DETECTION COUNT	Y	Enter 0 to disable ring detection. Enter 1-9, #10, #11, #12, #13, #14 for ring counts of 1-14. Enter #15 to select Answering Machine Defeat Mode	Must be set to "0" (disable).

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 previously, this method must be used to reenter program mode). OR
- B. Initially, key: **Installer Code (5 + 1 + 1 + 0) plus 8 + 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 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 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–*43, and *94)

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.** 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** or method A 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**].

PROGRAMMING FORM

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

SYSTEM SETUP (*20 – *27)

***20 Installer Code** [5110]
 4 digits, 0–9. Installer usage only. When a remote keypad is installed, program user 2 code for the system's principal user. For security purposes the default Installer Code should be changed.

***27 Output to AlarmNet Communicator** [0]
 0 = not using Comm. output; 1 = using Comm. output.
 If yes, dialer reports to PRIMARY No. (field *49) will also be sent via Comm. All dialer and Comm. reports will be in Contact ID format (overriding field *46 selection).

MISCELLANEOUS OPTIONS (*30 – *34)

***30 Alarm Bell Timeout** [0]
 0 = none; 1 = 4 min; 2 = 8 min; 3 = 12 min; 4 = 16 min;
 UL: For residential fire alarm installation, must be set for a minimum of 4 min (option 1)

***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/Supervisory on Short
 1 = Supervisory on Open/Supervisory on Short

***33 Backup Dialer Pulse/Tone** [1]
 0 = Pulse Dial
 1 = Tone Dial

***34 Auxiliary Relay Function** [1]
 0 = Trouble/Supervisory
 1 = Alarm (silenced by: SILENCE/RESET key pressed or code + OFF entry)
 2 = Smoke Detector Reset
 3 = Battery Save
 4 = Alarm (silenced by: code + #67 entry)
Notes: 1. Requires remote keypad for "code + OFF or code + #67 entry."
 2. 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.

DIALER PROGRAMMING (*40 – *50)

Enter the number of digits shown. Do not fill unused spaces. Enter 0–9; #+11 for 'Q'; #+12 for '#'; #+13 for a 2-second pause. If fewer than the maximum digits entered, exit the field by pressing [*]. The next field number is displayed.

***40 PABX Access Code**
 Enter up to 4 digits. To clear entries, press 40*.
 If call waiting used, enter "* (#+11) 70" plus "# + 13" (pause).

***41 Primary Phone No.**
 Enter up to 12 digits.
 To clear entries, press *41*.

***42 Second Phone No.**
 Enter up to 12 digits.
 To clear entries, press *42*.

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

***43 Primary Subs. Acct. No.** [FFFF] Enter 4 digits. See box above for entries.
 To clear entries, press *43*.

***45 Main Dialer Pulse/Tone** [1]
 0 = Pulse Dial
 1 = Tone Dial

***46 Report Format** [7]
 0 = 3+1, 4+1 ADEMCO L/S STANDARD
 1 = 3+1, 4+1 RADIONICS STANDARD
 2 = 4+2 ADEMCO L/S STANDARD
 3 = 4+2 RADIONICS STANDARD
 6 = 4+2 EXPRESS
 7 = CONTACT ID
 8 = 3+1, 4+1 ADEMCO L/S EXPANDED
 9 = 3+1, 4+1 RADIONICS EXPANDED

***47 Split/Dual Reporting** [0]
 0 = Standard/Backup reporting only (all to primary unless fail)

Primary Phone No.	2nd Phone No.
1 = Alarms, Restore	Others
2 = All except Test	Test
3 = Alarms, Restore	All
4 = All except Test	All
5 = All	All

***49 Periodic Test Message** [1]
 0 = none; 1 = 24 hours [Must be 1 for fire installations];
 2 = weekly; 3 = monthly. Enter test report code in field *64 and *84.

***50 SESCOA/Radionics Select** [0]
 0 = Radionics (0-9, B-F), and all formats other than SESCOA
 1 = SESCOA (0-9 only reporting)

***54 Program Mode Entry Report Code** [10]
 See the box above field *58.

***55 Program Mode Exit Report Code** [10]
 See the box above field *58.

ZONE ASSIGNMENTS/ALARM REPORT CODES (*56)

*56 ZONE PROGRAMMING (See explanation in table below.)

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"/> [10]
Zone 02	Wired Zone	<input type="text"/> <input type="text"/> [9]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> [10]
Zone 03	Wired Zone	<input type="text"/> <input type="text"/> [9]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> [10]
Zone 04	Wired Zone	<input type="text"/> <input type="text"/> [9]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> [10]
Zone 05	Wired Zone	<input type="text"/> <input type="text"/> [9]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> [10]
Zone 06	Bell Supervision	<input type="text"/> <input type="text"/> [19]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> [10]
Zone 07 (DO NOT USE)	Keypad Emergency (* & # or B Key)	<input type="text"/> <input type="text"/> [00]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> [10]
Zone 10	Earth Ground Supervision	<input type="text"/> <input type="text"/> [19]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> [10]
Zone 11	Main Dialer Supervision	<input type="text"/> <input type="text"/> [19]	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> [10]
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"/> [10]
Zone 13	Auxiliary Relay Disable	<input type="text"/> 0 <input type="text"/> 0	<input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0
Zone 95 (DO NOT USE)	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"/> [10]
Zone 96 (DO NOT USE)	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"/> [10]

Zn = ZONE NUMBER Wired Zones 01–05, System Zones 06, 10–13, and Keypad Zones 07, 95 & 96 may be programmed.

ZT = ZONE TYPE

00 = Zone Not Used	16 = Fire, w/ Verification
06 = 24 Hr Silent (DO NOT USE)	17 = Fire Waterflow
07 = 24 Hr Audible Alarm (DO NOT USE)	18 = Fire Supervisory
08 = 24 Hr Auxiliary Alarm (DO NOT USE)	19 = 24 Hr Trouble
09 = Fire, no Verification	

ZT Default values are shown in 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. Zones programmed for 24 Hour Audible Response (type 07) must be programmed to trigger the auxiliary relay 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)

SYSTEM STATUS REPORT CODES

PROGRAMMING SYSTEM STATUS & RESTORE REPORT CODES (*58 – *74):

For 3+1 or 4+1 Standard Format: Enter a code in the *first* box: 1–9, #+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.

For 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.

For ADEMCO Contact ID: Enter any digit (other than 0) in the *first* box, to enable zone to report (entries in the *second* boxes are ignored). A 0 (*not* #+10) in the *first* box disables the report.

UL: see installation instructions for requirements

*58 Supervisory Report Code [10]

*59 Supervisory Restore Report Code [10]

*60 Trouble Report Code [10]

*61 Bypass Report Code [10]

*62 AC Loss Report Code [10]

*63 Low Bat Report Code [10]

*64 Normal Test Report Code [10]

*69 Group Restores for Trouble/Bypass [1]

- 0 = disable (send individual restore reports;
- 1 = enable (send restore report after all zones restore)

RESTORE REPORT CODES

- *70 Alarm Restore Report Code** [1]

 - *71 Trouble Restore Report Code** [10]

 - *72 Bypass Restore Report Code** [10]

 - *73 AC Restore Report Code** [10]

 - *74 Low Bat Restore Rpt Code** [10]

 - *75 Charger Fail Rpt Code** [10]
- The system the Trouble Restore Report Code (field *71) when the charger circuit is fixed.

MISCELLANEOUS OPTIONS (*76 – *86)

- *76 Waterflow Alarm Silencing** [0]

0 = manual silence only; 1 = automatic silence when waterflow ceases (provided no other fire alarms present).
Note: Automatic silence option can only be used with permission of local AHJ.

- *77 Alarm Bell Sound** [1]

0 = Temporal
 1 = Steady

Notes:

 - The “temporal” selection causes the bell to sound using the NFPA three pulse temporal pattern.
 - For certain applications (ex. using a Sync module), a steady output must be selected.

- *78 Zones Types 17 and 18 Delay** [00]

00 – 99 seconds
Note: Zone type 18 must be enabled in field *57. Combined sensor and program field *78 must not exceed 90 seconds in fire installations.

- *79 Main/Backup Dialer Enable** [1] [1]

0 = Disabled; 1 = Enabled
Note: Dialer supervision must be separately enabled/disabled in field *56 (system zones 11, 12).

- *82 Custom Alpha Editing**

Also entered in field *56 (see procedure in *Installation and Setup Guide*).

- *84 Miscellaneous Report Codes**

[11] [11] [11]

Fire Walk Fire Walk Off-Normal
 Test Start Test End Dialer Test

Enter 2 hex digits for each (see box above field *58).

***85 Zones 1-7 Bell & Auxiliary Relay Activation**

1 2 3 4 5 6 7

0 = none; 1 = bell; 2 = aux relay; 3 = bell & aux relay.
 Default = [1111100]

***86 Zones 10-12, 95, 96 Bell & Aux Relay Activation**

* 10 11 12 95 96

0 = none; 1 = bell; 2 = aux relay; 3 = bell & aux relay.
 Default = [000000]
 * You must enter [0] in the first box.

DOWNLOAD INFORMATION

***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, press *94*.

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

***95 Ring Count For Downloading** [00]

NOTE: Do not enter "0" if using 4286 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)

ALPHA VOCABULARY LIST (For Entering Zone Descriptors)

000 (Word Space)	058 DISCRIMINATOR	K	R	V
A	059 DISPLAY	111 KITCHEN	161 RADIO	214 VALVE
001 AIR	060 DOCK	L	162 REAR	215 VAULT
002 ALARM	061 DOOR	112 LAUNDRY	163 RECREATION	216 VIBRATION
003 ALCOVE	062 DORMER	113 LEFT	164 REFRIG	217 VOLTAGE
004 ALLEY	063 DOWN	114 LEVEL	165 REFRIGERATION	W
005 AMBUSH	064 DOWNSTAIRS	115 LIBRARY	166 RELAY	218 WALL
006 ANTENNA	065 DRAWER	116 LIGHT	167 RF	219 WAREHOUSE
007 AREA	066 DRIVEWAY	117 LINE	168 RIGHT	220 WASH
008 APARTMENT	067 DRUG	118 LIQUOR	169 ROOM	221 WEST
009 ART	068 DUCT	119 LIVING	170 ROOF	222 WINDOW
010 ATTIC	E	120 LOADING	S	223 WINE
011 AUDIO	069 EARTH	121 LOCK	171 SAFE	224 WING
012 AUX	070 EAST	122 LOOP	172 SCREEN	225 WIRELESS
013 AUXILIARY	071 ELECTRIC	123 LORRA	173 SENSOR	226 WORK
B	072 EMERGENCY	124 LOW	174 SERVICE	X
014 BABY	072 ENTRY	125 LOWER	175 SHED	227 XMITTER
015 BACK	074 EQUIPMENT	M	176 SHOCK	Y
016 BACKUP	075 EXECUTIVE	126 MACHINE	177 SHOP	228 YARD
017 BAR	076 EXIT	127 MAGNETIC	178 SHORT	Z
018 BARN	077 EXTERIOR	128 MAIDS	179 SHOW	229 ZONE (No.)
019 BASEMENT	F	129 MAIN	180 SIDE	230 ZONE
020 BATHROOM	078 FACTORY	130 MASTER	181 SKYLIGHT	
021 BED	079 FAILURE	131 MAT	182 SLIDING	231 0
022 BEDROOM	080 FAMILY	132 MEDICAL	183 SMOKE	232 1
023 BELL	081 FATHERS	133 MEDICINE	184 SONIC	233 1ST
024 BLOWER	082 FENCE	134 MICROWAVE	185 SONS	234 2
025 BOILER	083 FILE	135 MONEY	186 SOUTH	235 2ND
026 BOTTOM	084 FIRE	136 MONITOR	187 SPRINKLER	236 3
027 BOX	085 FLOOR	137 MOTHERS	188 STATION	237 3RD
028 BREAK	086 FLOW	138 MOTION	189 STEREO	238 4
029 BUILDING	087 FOIL	139 MOTOR	190 STORE	239 4TH
030 BURNER	088 FOYER	N	191 STORAGE	240 5
C	089 FREEZER	140 NORTH	192 STORY	241 5TH
031 CABINET	090 FRONT	141 NURSERY	193 STRIKE	242 6
032 CALL	091 FUR	O	194 SUMP	243 6TH
033 CAMERA	092 FURNACE	142 OFFICE	195 SUPERVISED	244 7
034 CAR	G	143 OIL	196 SUPERVISION	245 7TH
035 CASE	093 GALLERY	144 OPEN	197 SWIMMING	246 8
036 CASH	094 GARAGE	145 OPENING	198 SWITCH	247 8TH
037 CCTV	095 GAS	146 OUTSIDE	T	248 9
038 CEILING	096 GATE	147 OVERFLOW	199 TAMPER	249 9TH
039 CELLAR	097 GLASS	148 OVERHEAD	200 TAPE	
040 CENTRAL	098 GROUND	P	201 TELCO	250 Custom Word #1
041 CIRCUIT	099 GUEST	149 PAINTING	202 TELEPHONE	
042 CLIP	100 GUN	150 PANIC	203 TELLER	
043 CLOSED	H	151 PASSIVE	204 TEMPERATURE	251 Custom Word #2
044 COIN	101 HALL	152 PATIO	205 THERMOSTAT	
045 COLD	102 HEAT	153 PERIMETER	206 TOOL	
046 COATROOM	103 HIGH	154 PHONE	207 TRANSMITTER	252 Custom Word #3
047 COLLECTION	104 HOLDUP	155 PHOTO	208 TRAP	
048 COMBUSTION	105 HOUSE	156 POINT	209 TRIGGERS	
049 COMPUTER	I	157 POLICE	U	253 Custom Word #4
050 CONTACT	106 INFRARED	158 POOL	210 UP	
D	107 INSIDE	159 POWER	211 UPPER	
051 DAUGHTERS	108 INTERIOR	Q	212 UPSTAIRS	254 Custom Word #5
052 DELAYED	109 INTRUSION	160 QUAD	213 UTILITY	
053 DEN	J			
054 DESK	110 JEWELRY			
055 DETECTOR				
056 DIALER				
057 DINING				

CHARACTER (ASCII) CHART

(For Adding Custom Words)

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

NOTES

DOCUMENTATION AND ONLINE SUPPORT

For the latest documentation and online support information, please go to:
<http://www.security.honeywell.com/hsc/resources/MyWebTech/>

WARRANTY

For the latest warranty information, please go to:
<http://www.security.honeywell.com/hsc/resources/wa/>

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