



# 4120XM PROGRAMMING FORM

## SUMMARY OF PROGRAMMING COMMANDS

- To enter program mode, enter installer code + [8] + [0] + [0]. Enter first field address to begin programming.
- To set standard defaults, press \*97
- To set communication defaults, press \*94 + one of the following: \*80=low speed; \*81=Ademco Express; \*82=Ademco High Speed; \*83=Ademco's Contact ID
- To change to 2nd page of program fields, press \*94
- To return to 1st page of fields, press \*99
- To erase account & phone number field entries, press [\*] + field number + [\*]
- To assign zone descriptors, press \*93 + zone number
- To add custom words, press \*93 + 00 + word number (1-20)
- To enter Installer's Message, press \*93 + 00 + 00
- To exit program mode, press \*99 OR \*98: \*99 allows re-access to programming mode by installer code. \*98 prevents re-access to programming mode by installer code.
- Default values are shown in brackets [ ]; otherwise default = 0

**\*00 INSTALLER CODE**

Enter 4 digits, 0-9 [4120]

**\*01 MASTER SECURITY CODE**

Enter 4 digits, 0-9 [1234] See 1\*54 for 6-digit enable

### ASSIGN RESPONSE TYPE FOR ZONES

(Enter 00-10; see Response Types table below)  
Hard-Wire zones = 1-8; Wireless zones = 1-63 plus  
RF Receiver zones 88-91

*02	*03	*04	*05
1 <input type="text"/>	9 <input type="text"/>	17 <input type="text"/>	25 <input type="text"/>
2 <input type="text"/>	10 <input type="text"/>	18 <input type="text"/>	26 <input type="text"/>
3 <input type="text"/>	11 <input type="text"/>	19 <input type="text"/>	27 <input type="text"/>
4 <input type="text"/>	12 <input type="text"/>	20 <input type="text"/>	0 0
5 <input type="text"/>	13 <input type="text"/>	21 <input type="text"/>	0 0
6 <input type="text"/>	14 <input type="text"/>	22 <input type="text"/>	95 <input type="text"/> (1+*)
7 <input type="text"/>	15 <input type="text"/>	23 <input type="text"/>	96 <input type="text"/> (3+ #)
8 <input type="text"/>	16 <input type="text"/>	24 <input type="text"/>	99 <input type="text"/> (**+ #)

- |                              |                        |
|------------------------------|------------------------|
| 00 = Assign for unused zones | 06 = 24-HOUR SILENT    |
| 01 = ENTRY/EXIT #1           | 07 = 24-HOUR AUDIBLE   |
| 02 = ENTRY/EXIT #2           | 08 = 24-HOUR AUXILIARY |
| 03 = PERIMETER               | 09 = FIRE              |
| 04 = INTERIOR, FOLLOWER      | 10 = INTERIOR, DELAY   |
| 05 = DAY/NIGHT               |                        |

### \*06-\*08 NOT USED

**\*09 ENTRY DELAY #1** [02] (00-15 times 15 seconds)

**\*10 EXIT DELAY #1** [03] (00-15 times 15 seconds)

**\*11 ENTRY DELAY #2** [06] (00-15 times 15 seconds)

**\*12 EXIT DELAY #2** [08] (00-15 times 15 seconds)

**\*13 ALARM SOUNDER DURATION**    
01-15 times 2 minutes [04]. Minimum 4 minutes for UL.

**\*14 ZONE 8 FAST/SLOW RESPONSE** [0=slow]; 1=fast

**\*15 KEYSWITCH ENABLE** [0=disable]; 1=enable (ALSO SEE ADDRESS 1\*57, TRIGGER MODE)

**\*16 CONFIRMATION OF ARMING DING**   
1=enable; [0=disable]

**\*17 AC POWER LOSS SOUNDING** 1=yes; [0=no]

**\*18 AC POWER LOSS ALARM** 1=yes; [0=no]

**\*19 AC RANDOMIZE** 1=randomize 10-40 min.; [0=no]

**\*21 DISABLE FIRE TIME-OUT** 1=no timeout; [0=fire timeout]

**\*23 MULTIPLE ALARMS** [1=yes]; 0=no

**\*24 NOT USED**

**\*25 BURGLAR TRIGGER FOR ZONE RESPONSE TYPE**   
0=disable; [1=enable]

**\*26 INTELLIGENT TEST REPORTING** Set "0" for UL   
1=yes, (no report sent if any other report was recently sent); [0=no]

**\*27 TEST REPORT INTERVAL**    
Enter interval in hours, 001-199; 000=no report [024]; Max. 024 for UL.

**\*28 POWER UP IN PREVIOUS STATE**   
[1=yes]; 0=no; "1" for UL.

**\*29 QUICK ARM** [1=yes]; 0=no

**\*30 TOUCH-TONE OR ROTARY DIAL**   
1=TouchTone; [0=rotary] See field 1\*33 for Touch-Tone w/Rotary backup

**\*31 PABX ACCESS CODE**      
00-09; B-F (11-15)

**\*32 PRIM. SBSCRBR ACCT #**      
Enter 00-09; B-F (11-15) [15 15 15 15]

**\*33 PRIMARY PHONE NUMBER**            
Enter 0-9 for each digit

**\*34 SECONDARY PHONE NUMBER**            
Enter 0-9 for each digit

**\*35 DOWNLOAD PHONE No.**        
Enter 0-9 for each digit

**\*36 DOWNLOAD ID No.**        
Enter 00-09; A-F (10-15) [15 15 15 15 15 15]

**\*37 DOWNLOAD COMMAND ENABLES** [1=enable]; 0=disable  
See field 1\*53 for Callback disable option. For UL installations, Upload & Download must be enabled. All others must be disabled.

- Dialer Shutdown
- System Shutdown
- 0 Not Used
- Remote Bypass
- Remote Disarm
- Remote Arm
- Upload Program
- Download Program

- \*38 INHIBIT BYPASS OF A ZONE**    
 01-31; [00 if all zones (except Fire zones) can be bypassed]
- \*39 OPEN/CLOSE REPORTS FOR ZONES 1-8** 1=yes; 0=no  
         
 1 2 3 4 5 6 7 8
- \*40 OPEN/CLOSE REPORTS FOR ZONES 9-16** 1=yes; 0=no  
         
 9 10 11 12 13 14 15 16
- \*41 EOLR DISABLE (Zones 2-8)**   
 [1=N.C.loops]; 0=EOLR supervision; Must be "0" for UL.
- \*42 DIAL TONE PAUSE** [0=5 scs; 1=11 scs; 2=30 scs; 0" for UL]
- \*43 DIAL TONE DETECT** [1=wait for dial tone]; 0=pause, then dial
- \*44 RING DETECTION COUNT**    
 01-14; 15=answering machine; [00=no detection]
- \*45 PRIMARY FORMAT**   
 [0=Low Speed]; 1=Contact ID; 2=Ademco High Speed; 3=Ademco Express
- \*46 LOW SPEED FORMAT (Primary)**   
 [0=Ademco Low Speed]; 1=Sescoa/Radionics

- \*47 SECONDARY FORMAT**   
 [0=Low Speed]; 1=Contact ID; 2=Ademco High Speed; 3=Ademco Express
- \*48 LOW SPEED FORMAT (Sec.)**   
 [0=Ademco Low Speed]; 1=Sescoa/Radionics
- \*49 CHECKSUM VERIFICATION**    
 1=yes; [0=no] Primary Scndry
- \*50 SESCOA/RADIONICS** 1=Sescoa; [0=Radionics]
- \*51 DUAL REPORTING**   
 1=yes; [0=no] If used with Split Reporting "1" option (1"34), alarms go to both primary & secondary numbers, while all other reports go to secondary only. If used with Split Reporting "2" option, open/close and test messages go to both lines, while all other reports go to primary.
- \*52 STANDARD/EXPANDED REPORT FOR PRIMARY**  
       
 Alarm Rstr Bypass Trbl Opn/Cls Low Bat  
 [0=standard]; 1=expanded; Note: Expanded overrides 4+2 format.
- \*53 STANDARD/EXPANDED REPORT FOR SECONDARY**  
       
 Alarm Rstr Bypass Trbl Opn/Cls Low Bat  
 [0=standard]; 1=expanded; Note: Expanded overrides 4+2 format.

**ALARM REPORT CODE & ID DIGITS FOR ZONES 1-32 & SUPERVISORY & RESTORE CODES**

[All codes default to 00]

*54 CODE	*55 ID	*56 CODE	*57 ID	*58	*59 CODE	*60 ID	*61 CODE	*62 ID	*63
1	<input type="checkbox"/>	9	<input type="checkbox"/>	<input type="checkbox"/> Alarm Rst.	17	<input type="checkbox"/>	25	<input type="checkbox"/>	<input type="checkbox"/> Alarm Rst.
2	<input type="checkbox"/>	10	<input type="checkbox"/>	<input type="checkbox"/> Trouble	18	<input type="checkbox"/>	26	<input type="checkbox"/>	<input type="checkbox"/> Trouble
3	<input type="checkbox"/>	11	<input type="checkbox"/>	<input type="checkbox"/> Trble Rst.	19	<input type="checkbox"/>	27	<input type="checkbox"/>	<input type="checkbox"/> Trble Rst.
4	<input type="checkbox"/>	12	<input type="checkbox"/>	<input type="checkbox"/> Bypass	20	<input type="checkbox"/>	28	<input type="checkbox"/>	<input type="checkbox"/> Bypass
5	<input type="checkbox"/>	13	<input type="checkbox"/>	<input type="checkbox"/> Bypss Rst.	21	<input type="checkbox"/>	29	<input type="checkbox"/>	<input type="checkbox"/> Bypss Rst.
6	<input type="checkbox"/>	14	<input type="checkbox"/>		22	<input type="checkbox"/>	30	<input type="checkbox"/>	
7	<input type="checkbox"/>	15	<input type="checkbox"/>		23	<input type="checkbox"/>	31	<input type="checkbox"/>	
8	<input type="checkbox"/>	16	<input type="checkbox"/>		24	<input type="checkbox"/>	32	<input type="checkbox"/>	

**ALARM REPORT CODE & ID DIGITS FOR ZONES 33-64 & SUPERVISORY & RESTORE CODES**

[All codes default to 00]

*64 CODE	*65 ID	*66 CODE	*67 ID	*68	*69 CODE	*70 ID	*71 CODE	*72 ID	*73
33	<input type="checkbox"/>	41	<input type="checkbox"/>	<input type="checkbox"/> Alarm Rst.	49	<input type="checkbox"/>	57	<input type="checkbox"/>	<input type="checkbox"/> Alarm Rst.
34	<input type="checkbox"/>	42	<input type="checkbox"/>	<input type="checkbox"/> Trouble	50	<input type="checkbox"/>	58	<input type="checkbox"/>	<input type="checkbox"/> Trouble
35	<input type="checkbox"/>	43	<input type="checkbox"/>	<input type="checkbox"/> Trble Rst.	51	<input type="checkbox"/>	59	<input type="checkbox"/>	<input type="checkbox"/> Trble Rst.
36	<input type="checkbox"/>	44	<input type="checkbox"/>	<input type="checkbox"/> Bypass	52	<input type="checkbox"/>	60	<input type="checkbox"/>	<input type="checkbox"/> Bypass
37	<input type="checkbox"/>	45	<input type="checkbox"/>	<input type="checkbox"/> Bypss Rst.	53	<input type="checkbox"/>	61	<input type="checkbox"/>	<input type="checkbox"/> Bypss Rst.
38	<input type="checkbox"/>	46	<input type="checkbox"/>		54	<input type="checkbox"/>	62	<input type="checkbox"/>	
39	<input type="checkbox"/>	47	<input type="checkbox"/>		55	<input type="checkbox"/>	63	<input type="checkbox"/>	
40	<input type="checkbox"/>	48	<input type="checkbox"/>		56	<input type="checkbox"/>	64	<input type="checkbox"/>	

**ALARM REPORT CODE & ID DIGITS FOR RF RCVRs & PANICS, & THEIR SUPV. & RESTORE CODES** [All codes default to 00]

*74 CODE	*75 ID	*76 CODE	*77 ID	*78	
81		89			Alarm Rst.
81		90			Trouble
83		91			Trble Rst.
84		Dures			Bypass
NU	0 0	0 0			Byps Rst.
NU	0 0	0 0			
NU	0 0	0 0			(1 + *)
NU	0 0	0 0			(3 + #)
88		99			(* + #)

NOTES: 88 & 90 = RCVR not receiving transmitter signals.  
 89 & 91 = RCVR not responding, bad conn. to panel. 81=4219A Supv.;  
 82=4219B Supv.; 83=4219A Tamp.; 84=4219B Tamp.

**\*79 ZONE TYPE RESTORE for TYPES 1-8**  
 1=enable; [0=disable]

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	2	3	4	5	6	7	8

**\*80 ZONE TYPE RESTORE for TYPES 9 & 10**    
 1=enable; [0=disable]

<input type="checkbox"/>	<input type="checkbox"/>
9	10

**SYSTEM NON-ALARM CODES**

	*81 First Digit	*82 Second Digit	
Close	<input type="checkbox"/>	<input type="checkbox"/>	Second digit of each
code Open	<input type="checkbox"/>	<input type="checkbox"/>	applies only to 4+2 or
Low Bat	<input type="checkbox"/>	<input type="checkbox"/>	expanded (fields *52 & *53)
Low Bat Rest	<input type="checkbox"/>	<input type="checkbox"/>	formats
AC Loss	<input type="checkbox"/>	<input type="checkbox"/>	
AC Rest	<input type="checkbox"/>	<input type="checkbox"/>	
Test	<input type="checkbox"/>	<input type="checkbox"/>	
Power	<input type="checkbox"/>	<input type="checkbox"/>	
Cancel	<input type="checkbox"/>	<input type="checkbox"/>	
Prog Tamper	<input type="checkbox"/>	<input type="checkbox"/>	

**\*83 FIRST TEST REPORT**  (Hours 00-23)  
 00=instant

**\*84 SWINGER SUPPRESSION**   
 01-15 alarms [15]; Must be "00" (disabled) for UL.

**\*85-86 NOT USED**

**\*87 ENTRY WARNING** [1=continuous]; 0=3 beeps

**\*88 BURG. ALARM COMM. DELAY**   
 1=16 seconds; [0=no delay]

**\*89 RESTORE REPORT TIMING**   
 [0=instant, as zone restores]; 1=after bell timeout if zone restored;  
 2=when system is subsequently disarmed

**\*90 SCNDRY SBSCRBRACCT #**      
 Enter 00-09; B-F (11-15) [15 15 15 15]

**SECOND PAGE FIELDS (\*94)**

**ASSIGN RESPONSE TYPE FOR ZONES**

(Enter 00-10; see \*02-\*05)

1*01	1*02	1*03	1*04	1*05
28	33	41	49	57
29	34	42	50	58
30	35	43	51	59
31	36	44	52	60
32	37	45	53	61
38	46	54	62	62 0 0
39	47	55	63	63 0 0
40	48	56	64	64

**1\*06-1\*07 NOT USED**

1*08	1*09
81	89
4219A NOCOM	2nd RCVR
82	90
4219B NOCOM	1st RCVR
83	91
4219A TAMPER	1st RCVR
84	
4219B TAMPER	
NU	
0 0	
NU	
0 0	
NU	
0 0	
88	
2nd RCVR	

For UL applications, use of 1 or 2 RF RCVRs requires enabling their respective faults (88-91) as applicable (type 5).

NOTES: 88 & 90 = RCVR not receiving transmitter signals.  
 89 & 91 = RCVR not responding, bad conn. to panel.

**1\*10-1\*17 NOT USED**

**SELECTION OF WIRELESS FOR ZONES 1-63**

Enter "1" to enable a zone as wireless; 0=non-wireless

1*18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZONES:	1	2	3	4	5	6	8
1*19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZONES:	9	10	11	12	13	14	16
1*20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZONES:	17	18	19	20	21	22	24
1*21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZONES:	25	26	27	28	29	30	32
1*22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZONES:	33	34	35	36	37	38	40
1*23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZONES:	41	42	43	44	45	46	48
1*24	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZONES:	49	50	51	52	53	54	56
1*25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZONES:	57	58	59	60	61	62	63

- 1\*26 FIRST RF RECEIVER SELECT 1=yes; [0=no]
- 1\*27 SECOND RF RECEIVER SELECT 1=yes; [0=no]
- 1\*28 RF TRANSMITTER LOW BATTERY ANNUN.   
1=immediate; [0=when disarmed] Must be "1" for UL
- 1\*29 RF TRANSMITTER LO BAT REPORT ENABLE   
1=enable; [0=disable] Must be "1" for UL
- 1\*30 RF RECEIVER SUPERVISION CHECK-IN INTERVAL   
02-15 times 2 hours;  
00 disables supervision [6] Max. "6" (12 hr) for UL
- 1\*31 RF TRANSMITTER CHECK-IN INTERVAL   
02-15 times 2 hours;  
00 disables transmitter supervision [12] Max. "6" (12 hr) for UL

**1\*32 NOT USED**

- 1\*33 TOUCH-TONE W/ROTARY BACKUP ENABLE 1=enable; [0=disable]
- 1\*34 COMM. SPLIT REPORT SELECTION   
[0=no]; 1=alarms primary, others secondary;  
2=open/close, test secondary, others primary; See \*51 for comments.

**1\*35-1\*39 NOT USED**

**ARMED STAY DIALER REPORT**

1\*40                  1\*41  
 First Digit          Second Digit  
 Armed Stay

This report will be sent for any Low Speed format. If Ademco High Speed is used, a normal closing report will be sent. If Contact ID is used, a new code, R441, will be sent. 685 Receivers that do not have revision 4.5 or higher will print an error message in place of the English text.

- 1\*44 RF KEYPAD TAMPER DETECT 1=yes; [0=no]
- 1\*45 ENABLE CONSOLE ANNUN. DURING EXIT DELAY 1=enable; [0=disable]
- 1\*46 AUXILIARY OUTPUT ENABLE   
0=ground start; 1=open/close trigger (TERM 9); 2=Not used; [3=Zone 1 EOLR]
- 1\*47 ENABLE CHIME ANNUN. ON EXTERNAL ALARM SOUNDER 1=enable; [0=disable]
- 1\*48 WIRELESS KEYPAD DISABLE   
1=disable; [0=enable]

- 1\*49 DISABLE TROUBLE SOUNDER FOR RF SUPERVISION [1=disable]; 0=enable. Must be "0" for UL.
- 1\*50 BABYSITTER CODE 1=enable; [0=disable]; (User 22)
- 1\*51 4281 HOUSE ID Enter 01-31
- 1\*52 CANCEL REPORT RESTRICTION   
1=no restriction; [0=within Bell Timeout period only]
- 1\*53 DOWNLOAD CALLBACK   
1=callback not required; [0=callback required]; Must be "0" for UL.
- 1\*54 HIGH SECURITY MODE   
1=6-digit high security; [0=4-digit normal]

**1\*55-1\*56 NOT USED**

- 1\*57 TRIGGER MODE 0, [1], 2, 3. See Table below

1*57 Trigger Mode	*15 Keyswitch	Trigger Output 1	Trigger Output 2	Trigger Output 3
0	0	FIRE LRR TRIGGER	PANIC LRR TRIGGER	BURG LRR TRIGGER
	1	KEYSWITCH ARMED LED	KEYSWITCH READY LED	
1	0	FIRE LRR TRIGGER	PANIC LRR TRIGGER	ZONE 6 GLASS BREAK RESET
	1	KEYSWITCH ARMED LED	KEYSWITCH READY LED	
2	0 1 not allowed	FIRE LRR TRIGGER	REMOTE SOUNDER	BURG LRR TRIGGER
3	0 1 not allowed	FIRE LRR TRIGGER	REMOTE SOUNDER	ZONE 6 GLASS BREAK RESET

NOTE: IF ADDRESS 1\*57 IS SET FOR 2 OR 3, ADDRESS \*15 MUST BE 0.

- 1\*58 4219A FIRST ZONE NUMBER [00], 09-57   
Set to 00 if no 4219s used. If using a 4219, set to 1st zone # which will be assigned to zone A on 4219. Remaining 7 zones on 4219 will be the next 7 zone #s.
- 1\*59 4219B FIRST ZONE NUMBER [00], 09-57   
Set 00 if no 2nd 4219 used. If using a 2nd 4219, set to 1st zone # which will be assigned to zone A on 2nd 4219. Remaining 7 zones on 2nd 4219 will be the next 7 zone #s.

**HEXADECIMAL TO NUMERIC ENTRY CONVERSION**  
 0 = 10 (REPORT CODES)  
 0 = 00 (SUBS ID, PABX OR DOWNLOAD ID)  
 1 = 01, 2 = 02, 3 = 03, 4 = 04, 5 = 05, 6 = 06, 7 = 07, 8 = 08, 9 = 09,  
 B = 11, C = 12, D = 13, E = 14, F = 15,  
 A = 10 (DOWNLOAD ID ONLY)



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