



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	9	17	25
2	10	18	26
3	11	19	27
4	12	20	0 0
5	13	21	0 0
6	14	22	95 (1+*)
7	15	23	96 (3+ #)
8	16	24	99 (*+ #)

00 = Assign for unused zones

01 = ENTRY/EXIT #1

02 = ENTRY/EXIT #2

03 = PERIMETER

04 = INTERIOR, FOLLOWER

05 = DAY/NIGHT

06 = 24-HOUR SILENT

07 = 24-HOUR AUDIBLE

08 = 24-HOUR AUXILIARY

09 = FIRE

10 = INTERIOR, DELAY

*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 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 ☐	☐	9 ☐	☐	☐ Alarm Rst.	17 ☐	☐	25 ☐	☐	☐ Alarm Rst.
2 ☐	☐	10 ☐	☐	☐ Trouble	18 ☐	☐	26 ☐	☐	☐ Trouble
3 ☐	☐	11 ☐	☐	☐ Trble Rst.	19 ☐	☐	27 ☐	☐	☐ Trble Rst.
4 ☐	☐	12 ☐	☐	☐ Bypass	20 ☐	☐	28 ☐	☐	☐ Bypass
5 ☐	☐	13 ☐	☐	☐ Bypss Rst.	21 ☐	☐	29 ☐	☐	☐ Bypss Rst.
6 ☐	☐	14 ☐	☐		22 ☐	☐	30 ☐	☐	
7 ☐	☐	15 ☐	☐		23 ☐	☐	31 ☐	☐	
8 ☐	☐	16 ☐	☐		24 ☐	☐	32 ☐	☐	

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 ☐	☐	41 ☐	☐	☐ Alarm Rst.	49 ☐	☐	57 ☐	☐	☐ Alarm Rst.
34 ☐	☐	42 ☐	☐	☐ Trouble	50 ☐	☐	58 ☐	☐	☐ Trouble
35 ☐	☐	43 ☐	☐	☐ Trble Rst.	51 ☐	☐	59 ☐	☐	☐ Trble Rst.
36 ☐	☐	44 ☐	☐	☐ Bypass	52 ☐	☐	60 ☐	☐	☐ Bypass
37 ☐	☐	45 ☐	☐	☐ Bypss Rst.	53 ☐	☐	61 ☐	☐	☐ Bypss Rst.
38 ☐	☐	46 ☐	☐		54 ☐	☐	62 ☐	☐	
39 ☐	☐	47 ☐	☐		55 ☐	☐	63 ☐	☐	
40 ☐	☐	48 ☐	☐		56 ☐	☐	64 ☐	☐	

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				Bypss Rst.
NU		95		(1 + *)
NU		96		(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]

1	2	3	4	5	6	7	8

*80 ZONE TYPE RESTORE for TYPES 9 & 10

1=enable; [0=disable]

9	10

SYSTEM NON-ALARM CODES

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

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

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

*85-*86 NOT USED

*87 ENTRY WARNING {1=continuous; 0=3 beeps}

*88 BURGL. 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 SBSCRBR ACCT #
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
39	47	55	63	63
40	48	56	64	64

1*06-1*07 NOT USED

1*08	1*09
81 4219A NOCOM	89 2nd RCVR
82 4219B NOCOM	90 1st RCVR
83 4219A TAMPER	91 1st RCVR
84 4219B TAMPER	
NU	
NU	
NU	
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							
ZONES: 1	2	3	4	5	6	7	8
1*19							
ZONES: 9	10	11	12	13	14	15	16
1*20							
ZONES: 17	18	19	20	21	22	23	24
1*21							
ZONES: 25	26	27	28	29	30	31	32
1*22							
ZONES: 33	34	35	36	37	38	39	40
1*23							
ZONES: 41	42	43	44	45	46	47	48
1*24							
ZONES: 49	50	51	52	53	54	55	56
1*25							
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
	1	KEYSWITCH ARMED LED	KEYSWITCH READY LED	TRIGGER
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)

ADEMCO

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