Ademco/Protection One 250P1-1 Programming Form

Local programming requires the use of a 2-line Alpha keypad connected to the keypad terminals on the control.

Field Function — **Programmed Values** — **[ ] = Default Value**

SYSTEM SETUP (*20-*30)

***20** INSTALLER CODE — [4][1][1][2] Enter 4 digits, 0-9 [4112]

***21** QUICK ARM ENABLE — † [0] [0 = Disable]; 1 = Enable

***22** RF SYSTEM — [0] [0 = none]; 1 = 5800 (5881/5882); 4 = 5800 w/ RF Jamming

***23** FORCED BYPASS — † [0] 0 = none; [1 = bypass open zones]
"0" for UL installations.

***24** RF HOUSE ID CODE — [0][0] [00] 00 = disable all wireless keypad useage; Enter 01 - 31 if using 5827 keypad.

***25** WIRED ZONE EXPANSION — † [0] [0 = none]; 1 = 4219; 2 = 4229; 3 = 4204

***26** CHIME BY ZONE — † [0] 0 = no; [1 = yes]. Chime for zones in Zone List #3.

***27** X-10 HOUSE CODE — [0][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

***28** PHONE MODULE ACCESS CODE (4285) — [0][0] 1st digit: enter 1-9; 2nd digit: 0; enter #+11 for **"*"**;
or # + 12 for "#". Default = [00].

***29** OUTPUT TO LONG RANGE RADIO — [0] To enable enter Trouble code 1-9, A(#+10), B(#+11), C(#+12), D(#+13), E (#+14), or F (#+15). The 2nd digit of Trouble Dialer Report is automatically entered from field *60, [0 to disable]. "0" for UL installations.

***30** HARDWIRE SHORT DETECTION — [0] [0 = Disable]; 1 = Enable

ZONE SOUNDS AND TIMING (*31 - * 39)

***31** SINGLE ALARM SOUNDING/ZONE — † [1] 0 = no; [1 = yes]. "0" for UL installations.

***32** FIRE SOUNDER TIMEOUT — † [1] [0 = timeout]; 1 = no timeout.

***33** ALARM BELL TIMEOUT — † [2] 0 = none; [1 = 4 min]; 2 = 8 min; 3 = 12 min; 4 = 16 min; "1" (4 min.) minimum for UL.

***34** EXIT DELAY — † [0][2] 0=30 sec; 1=45 sec; [2=60 sec]; 3=90 sec; 4=120 sec; 5=180 sec; 6=240 sec;

***35** ENTRY DELAY #1 (zone type 01) — † [0][0] [0=30 sec]; 1=45 sec; 2=60 sec; 3=90 sec; 4=120 sec; 5=180 sec; 6=240 sec;

***36** ENTRY DELAY #2 (zone type 02) — † [0][2] 0=30 sec; 1=45 sec; [2=60 sec]; 3=90 sec; 4=120 sec; 5=180 sec; 6=240 sec;

***37** AUDIBLE EXIT WARNING — † [1] 0 = no; [1 = yes].

***38** CONFIRMATION OF ARMING DING — † [0] [0 = no]; 1 = yes,(wired keypads and RF); 2 = yes, RF only

***39** POWER UP IN PREVIOUS STATE — † [1] 0 = no; [1 = yes]. "1". for UL installations.

DIALER PROGRAMMING (*40 - *55)

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 6 digits. If fewer than 6 digits are entered, exit by pressing ** (and press 41, if entering next field).
To clear entries from field, press ***40***.

***41** PRIMARY PHONE NUMBER — [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] Enter up to 20 digits.
Do not fill unused spaces. If fewer than 20 digits entered, exit by pressing *****
(and press 42, if entering next field). To clear entries from field, press ***41***.

***42** SECONDARY PHONE NUMBER — [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] Enter up to 20 digits.
Do not fill unused spaces. If fewer than 20 digits entered, exit by pressing *****
(and press 42, if entering next field). To clear entries from field, press ***42***.

***43** PRIMARY SUBSCRIBER ACCT # — [0][0][0][0][ ][ ][ ][ ][ ][ ] PRIMARY RECEIVER ***44** SECONDARY SUBSCRIBER ACCT # [F][F][F][F][F][F][F][F][F][F]

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. If only 3 digits used, exit by pressing *****(and press next field).
To clear entries from field, press *****43*****, *****44*****.

Examples:

For Acct No.**1234**, enter:	1	2	3	4
For Acct No.**B234**, enter:	#+11	2	3	4
For Acct No.**123**, enter:	1	2	3	*

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

***45** PHONE SYSTEM SELECT † [3] If Central Station *IS NOT* on a WATS line: 0 = Pulse Dial; 1 = Tone Dial
If Central Station *IS* on a WATS line: 2 = Pulse Dial; [3 = Tone Dial]

***46** REPORT FORMAT PRIMARY/SECONDARY Primary [7] Secondary [7]

5 = CONTACT ID REPORTING (10 digit) [**7** = CONTACT ID REPORTING (4 digit)]

***47** SPLIT/DUAL REPORTING [0] [0 = Disable (Backup report only)]

	TO PRIMARY	**TO SECONDARY**
1 =	Alarms, Restore, Cancel	Others
2 =	All except Open/Close, Test	Open/Close, Test
3 =	Alarms, Restore, Cancel	All
4 =	All except Open/Close, Test	All
5 =	All	All

***48** DIALER DELAY (BURG/FIRE) (in sec) † [0][0] [2|0] Select Dialer Delay; 0 = no; 1=15 sec; 2=30 sec; 3=45 sec; 4=60 sec; 5=120 sec.

***49** PERIODIC TEST REPORT † [3] [0 = none]; 1 = 24 hours; 2 = weekly; 3 = 30 days.
(Enter Test Code in field *64.)

***50** TEST REPORT OFFSET † [2] 0 = 24 hour; 1 = 6 hours; [2 = 12 hours]; 3 =18 hours.
(Time to 1st report from programming or downloading).

***51** SESCOA/RADIONICS SELECT [0] [0 = Radionics (0-9, B-F reporting)]; 1 = SESCOA (0-9 only reporting)
Select 0 for all other formats.

***52** CANCEL VERIFY [1] 0 = Diasble; [1 = Enable]

***53** PAGER PHONE NUMBER [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] Enter up to 20 digits.
Do not fill unused spaces. If fewer than 20 digits entered, exit by pressing *****

***54** PAGER REPORT OPTIONS [0]
0 = No reports sent
1 = Open/close for all users
3 = O/C users 5-16+wireless key zones on zone list 6
4 = All alarms and troubles
5 = All alarms+troubles+O/C for all users
7 = All alarms+troubles, O/C users 5-16+wireless key zones on zone list 6
C = Alarms and troubles for zones entered on zone list 6
D = Alarms and troubles for zones entered on zone list 6, open/close for all users
F = Alarms+trbls for zns on zn list 6, O/C users 5-16, RF key zones on zone list 6

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

***56/58ZONE ASSIGNMENT/ALARM REPORT CODES** - This field is an interactive mode. Fill in the required data on the worksheet below (and on next page) and follow the programming procedure in the installation manual.

ZONES ON CONTROL: ***See explanation of headings at top of next page →***

ZONE DESCRIPTION	ZONE NUMBER (Zn)	ZONE TYPE (ZT)	ALARM RPT CODE (Hex) (RC)	INPUT TYPE (In)	RESPONSE TIME (RT)
Wired Zone 1*	[01]	[09] [9]	[01][--] [01, --]	HW	350 msec [1 = 350]
Wired Zone 2	[02]	[01] [1]	[01][--] [01, --]	HW	350 msec [1 = 350]
Wired Zone 3	[03]	[01] [1]	[01][--] [01, --]	HW	350 msec [1 = 350]
Wired Zone 4	[04]	[03] [3]	[01][--] [01, --]	HW	350 msec [1 = 350]
Wired Zone 5	[05]	[03] [3]	[01][--] [01, --]	HW	350 msec [1 = 350]
Wired Zone 6	[06]	[04] [4]	[01][--] [01, --]	HW	350 msec [1 = 350]
Expansion Module	[09] **Tamper**	[05] [5]	[00][--] [01, --]	--	--
Duress	[92] **Duress**	- - NA	[01][--] [01, --]	--	--
Console Panic (1 & *, or A)	[95] **1 *, A**	[09] [0]	[01][--] [01, --]	--	--
Console Panic (3 & #, or C)	[96] **3 #, C**	[08] [0]	[01][--] [01, --]	--	--
Console Panic (* & #, or B)	[99] *** #, B**	[07] [7]	[01][--] [01, --]	--	--

* Zone 1 can be used as a 2-wire Fire zone.

EXPLANATION OF ZONE ASSIGNMENT TABLE HEADINGS

Zn = ZONE NUMBER Zone Nos. are from 01 to 6, 9 to 35, 92, 95, 96, 99. Some are pre-assigned.
With Field *25 set for auxiliary wired loops (4219 or 4229), use Zone Nos. 10-17 for loops A-H.
With Field *22 set for RF (5800), use Zone Nos. 10-35.

ZT = ZONE TYPE

00 = Not Used	05 = Trouble Day/Alarm Night	20 = Arm-Stay
01 = Entry/Exit #1	06 = 24 Hr Silent	21 = Arm-Away
02 = Entry/Exit #2	07 = 24 Hr Audible	22 = Disarm
03 = Perimeter	08 = 24 Hr Aux	23 = No Alarm Response
04 = Interior Follower	09 = Fire Trouble	24 = Silent Burglary
	10 = Interior w/Delay	
	12 = 24 Hour Monitor	

DEFAULT VALUES				
Zn: 01	02	03	04	
ZT: [09]	[01]	[01]	[03]	
Zn: 05	06			99
ZT: [03]	[04]			[07]

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. Enter any Hex digit (other than "00") in the first pair of boxes. The second pair of boxes will be ignored.

In = LOOP INPUT DEVICE
HW: Hard Wire
AW: Aux Wire (4219 or 4229)
Enter 2 for AW: Auxiliary Wired
Enter 3 for RF: Supervised RF
Enter 4 for UR: Unsupervised RF
Enter 5 for BR: Button Type RF

Hard wire zone input types are automatically assigned.

RT = RESPONSE TIME 0 = 10 msec; 1 = 350 msec; 2 = 700 msec. Default Values for zones 01 - 06 = [1 (350 msec)]
L = LEARNED RF INPUT Used with 5800 RF Loop Input Devices. Record transmitter input number.

EXPANSION ZONES: Assign Zone Numbers (Zn) 10-17 to 4219/4229 Auxiliary Wired Loops A-H, if used.
RF can use (Zn) 10-39.
All expansion zone information defaults to [0].

ENTER FOR RF ONLY

EXP'N DESCRIPTION		ZONE NUMBER (Zn)	ZONE TYPE (ZT)	ALARM RPT CODE (Hex) (RC)	INPUT TYPE (In)	LOOP NUMBER (L)	SERIAL NUMBER
4219/4229 Loop A,	1st Exp'n Zone	10	--	01--	--	--	--
B,	2nd	11	--	01--	--	--	--
C,	3rd	12	--	01--	--	--	--
D,	4th	13	--	01--	--	--	--
E,	5th	14	--	01--	--	--	--
F,	6th	15	--	01--	--	--	--
G,	7th	16	--	01--	--	--	--
H,	8th	17	--	01--	--	--	--
	9th	18	--	01--	--	--	--
	10th	19	--	01--	--	--	--
	11th	20	--	01--	--	--	--
	12th	21	--	01--	--	--	--
	13th	22	--	01--	--	--	--
	14th	23	--	01--	--	--	--
	15th	24	--	01--	--	--	--
	16th	25	--	01--	--	--	--
	17th	26	--	01--	--	--	--
	18th	27	--	01--	--	--	--
	19th	28	--	01--	--	--	--
	20th	29	--	01--	--	--	--
	21st	30	--	01--	--	--	--
	22nd	31	--	01--	--	--	--
	23rd	32	--	01--	--	--	--
	24th	33	--	01--	--	--	--
	25th	34	--	01--	--	--	--
	26th	35	--	01--	--	--	--

TO PROGRAM SYSTEM STATUS, & RESTORE REPORT CODES (*59-*76, & *89):
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: [3][0]
For Code **32** (Two Digits), enter: [3][2]
For Code **B2** (Hexadecimal), enter: [#+11][2]

SYSTEM STATUS REPORT CODES (*59-*68)

***59** EXIT ERROR REPORT CODE [1-] [0]
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.

***60** TROUBLE REPORT CODE [0-] [1][0]

***61** BYPASS REPORT CODE [0-] [0][0]

***62** AC LOSS REPORT CODE [0-] [1][0]

***63** LOW BATTERY REPORT CODE [1-] [1][0]

***64** TEST REPORT CODE [2-] [1][0]

***65** OPEN REPORT CODE [0] [0]

***66** ARM AWAY/STAY REPORT CODE [0,0] [0] [0]
AWAY STAY

***67** RF TRANSMITTER LOW BATTERY REPORT CODE [3-] [1][0]

***68** CANCEL REPORT CODE [4-] [1][0]

RESTORE REPORT CODES (*70-*76)

***70** ALARM RESTORE REPORT CODE [0] [0]

***71** TROUBLE RESTORE REPORT CODE [0-] [0][0]

***72** BYPASS RESTORE REPORT CODE [0-] [0][0]

***73** AC RESTORE REPORT CODE [0-] [0][0]

***74** LOW BATTERY RESTORE REPORT CODE [5-] [0][0]

***75** RF TRANSMITTER LOW BATTERY RESTORE REPORT CODE [6-] [1][0]

***76** TEST RESTORE REPORT CODE [0-] [0][0]

DAYLIGHT SAVING TIME (*77-*78)

***77** DAYLIGHT SAVINGS TIME MONTH START/END [04|10] [04|10]
0 = Disabled; 1-12 selects start/end months. (ex. 1 = Jan, etc.)

***78** DAYLIGHT SAVINGS TIME WEEKEND START/END [1|5]
[1|5] 0=Disabled; 1=1st; 2=2nd; 3=3rd; 4=4th; 5=Last; 6=Next to Last; 7=Third from Last

DYNAMIC SIGNALING (*79)

***79** DYNAMIC SIGNALING [0] [0] † [0] [0] †
1st Entry 2nd Entry

D S DELAY TIME
0-15 times a 15-sec delay;
1 = 15 sec; 2 = 30 sec; 3 = 45 sec; 4 = 60 sec...etc.
Default = 0. Redundant reports will be sent to Primary Phone No. and LRR.

D S PRIORITY
0 = Send message to Primary Phone No. first;
1 = Send message to LRR first. Default = 0.

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

OUTPUT AND SYSTEM SETUP (*80-*93)

***80** OUTPUT RELAYS AND POWERLINE CARRIER DEVICES
***81** ZONE LISTS FOR OUTPUT DEVICES

Program only if Relays and/or Powerline Carrier devices are to be used. See next page.

***82** CUSTOM ALPHA EDITING: (Also entered from field *56):
See procedure in instructions.

***83** FUNCTION KEY PROGRAMMING

01 - Arm Away	07 - Single Button Page
02 - Arm Stay	08 - 10 sec Time/Date Display
03 - Arm Night Stay	09 - Macro Key
04 - Lights ON/OFF Toggle	10 - Special Function #1
05 - Cancel Key	11 - Special Function #2
06 - Single Button Communicator Test	12 - Not Used

[0][5] [0][6] [1][2] [1][0]
Key A Key B Key C Key D

***84** AUTO-STAY ARMING [0]
[0 = Disable]; 1 = Enable

***85** CROSS ZONE TIMER [0]
[0 = 30 sec]; 1 = 45 sec; 2 = 60 sec; 3 = 90 sec; 4 = 120 sec; 5 = 180 sec; 6 = 240 sec

***86** SPECIAL FUNCTION PROGRAMMING
(Special Function Data prints on an additional zones page):
See programming procedure in instructions.

***87** ALARM PAGER DELAY TIME [3]
0 = None; 1 = 1 min; 2 = 2 min; [3 = 3 min].

***88** PAGER CHARACTERS
Enter up to 16 digits: 0-9; #+11 for '*'; #+12 for '#'; #+13 for a pause (displayed as ","). Do not fill unused spaces. If fewer than 16 digits entered, exit field by pressing * (and press 89, if entering next field).
To clear entries from field, press *88*.

***89** EVENT LOG 80% FULL REPORT CODE [0-] [0][0]

***90** EVENT LOGGING [1][5]
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. Default = [15] (1+2+4+8).
Note: System messages are logged when any non-zero selection is made.

***91** OPTION SELECT [0][8]
0 = None; 4 = AAV; [8 = Exit Delay Restart]
12 = AAV + Exit Delay Restart
"0" for UL installations

***92** PHONE LINE MONITOR ENABLE [ ]
[0 = Not used];
1 = Keypad display when line is faulted;
2 = Keypad display plus keypad trouble sound;
3 = Same as "2", plus Device #2 STARTS. If armed, external sounder also activates.
Note: Device #2 must either be programmed to be STOPPED in field *80 or STOPPED by Code + # + 8 + 2.

***93** SWINGER SUPPRESSION [0][3]
[6] 0 = Unlimited; 1 to 15 selects number of alarms

DOWNLOAD INFORMATION (*94, *95) <>

***94** DOWNLOAD PHONE No.
Enter up to 20 digits: 0-9; #+11 for '*'; #+12 for '#'; #+13 for a pause. Do not fill unused spaces. If fewer than 20 digits entered, exit field by pressing * (and press 95, if entering next field).
To clear entries from field, press *94*.

***95** RING DET COUNT FOR DOWNLOADING [1][5]
O=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)
Note: Do not enter "0" if using 4285 Voice Module.

<> *In UL installations, downloading may only be performed if a technician is at the site.*

***96** INITIALIZES DOWNLOAD ID, SUBSCRIBER ACCOUNT No. FOR INITIAL DOWNLOAD:
No data entry required.

***97** SETS ALL PROGRAM FIELDS TO DEFAULT VALUES:
No data entry required.

***98 and *99** USED TO EXIT PROGRAM MODE (see page "6")

***81 ZONE LISTS FOR OUTPUT DEVICES-** This is an interactive mode. 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. More or fewer bowes than shown may be needed, since any list may include *any* or *all* of system's zone numbers.

Zone List 1: Started or stopped by zone numbers (enter 00 to end entries).

☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐...etc.

Zone List 2: Started or stopped by zone numbers (enter 00 to end entries).

☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐...etc.

Zone List 3: Started or stopped by zone numbers (enter 00 to end entries).

☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐...etc.

Cross Zone List:

☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐...etc.

Night Stay Zone List:

☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐...etc.

Pager List:

☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐...etc.

Special Function Pager List:

☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐, ☐☐...etc.

SPECIAL MESSAGES

OC = OPEN CIRCUIT (no communication between Console 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 **READY** in appx. 1 minute, which allows PIRS, etc. to stabilize. To bypass this delay, press: [#] + [0].

If **E4** or **E8** appears, more zones than the expansion unit's capacity have been programmed. Correct the programming and then completely de-power and re-power the control to clear this indication and remove the disable indication.

TO ENTER PROGRAMMING MODE:

1. POWER UP, then depress **[*] and [#]** both at once, within 50 seconds of powering up.
   OR
2. Initially, key **Installer Code (4 + 1 + 1 + 2)** plus **8 + 0 + 0.**
   OR
3. If different **Installer Code** is programmed, key: **New Installer Code + 8 + 0 + 0.**
   (if *98 was used to exit previously, method 1 above must be used to enter the program mode again).

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 1 above used to enter the programming mode.

***99** Exits programming mode and *allows* re-entry by: **Installer Code + 8 + 0 + 0.** or: **Power-up,** then **"*"** and **"#"** . within 50 seconds of power up.