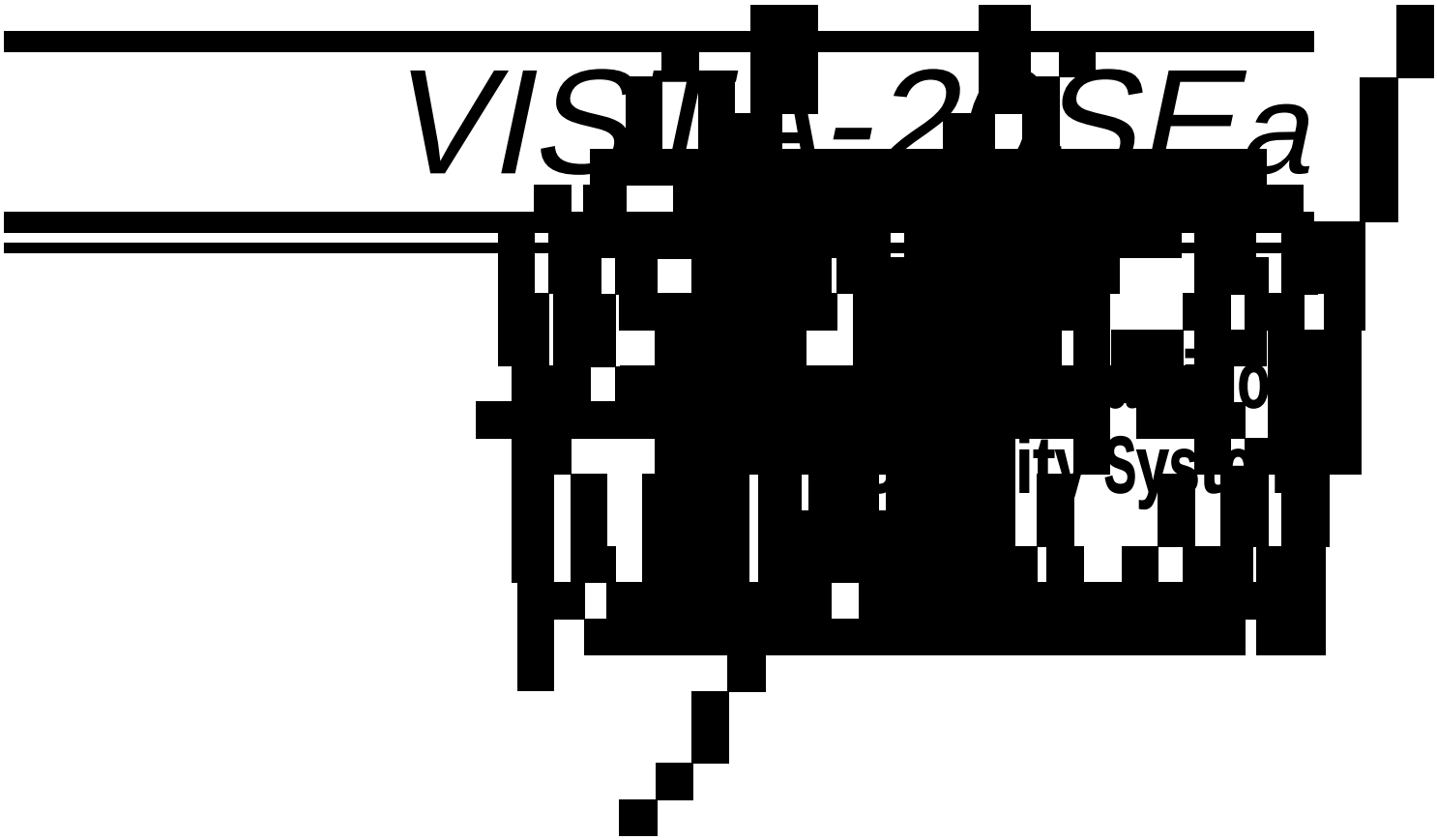

Programming Form

ADEMCO

Local programming requires the use of a 2-line Alpha keypad connected to Partition 1 keypad terminals on the control.

Field	Function	Programmed Values	[ ] = Default Value
SYSTEM SETUP (✶20–✶30)			
✶**20**	INSTALLER CODE	Enter 4 digits, 0–9 [4 1 1 2]	| | | |
✶**21**	QUICK ARM ENABLE	[0 = no]; 1 = yes	Partition 1 † ☐ Partition 2 † ☐
✶**22**	RF SYSTEM	[0 = none]; 1 = 5800 (5881); 4 = 5800 w/Jam Detection	☐
✶**23**	FORCED ARM ENABLE	0 = no; [1 = bypass open exit route zones and arm AWAY]	Partition 1 † ☐ Partition 2 † ☐
✶**24**	RF HOUSE ID CODE	[0][0] Enter 01–31 if using 5827 keypad. Part'n 2 RF House Code = Entered (Part'n 1) Code +1	|
✶**25**	WIRED ZONE/RELAY EXPANSION	[0 = none]; 1 = 4219; 2 = 4229; 3 = 4204	† ☐
✶**26**	CHIME BY ZONE	[0 = no]; 1 = yes. (Program zones to chime in Zone List 3.)	☐
✶**27**	X–10 HOUSE CODE	[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**	VOICE MODULE ACCESS CODE (4285/4286)	(Partition 1 only) 1st digit: enter 1–9; 2nd digit: enter # + 11 for "✶ ", or # + 12 for "#". Default = 00 (no Voice Module).	|
✶**29**	OUTPUT TO ALTERNATIVE COMMUNICATIONS MEDIA	To enable, enter Trouble code enable 1–9 [0 = No]	☐
ZONE SOUNDS AND TIMING (✶32–✶38)			
✶**31**	SINGLE ALARM SOUNDING/ZONE	1 = yes; [0 = no].	† ☐
✶**32**	FIRE SOUNDER TIMEOUT	[0 = timeout]; 1 = no timeout.	† ☐
✶**33**	ALARM SIREN TIMEOUT	0 = none; 1=4 min; [2=8 min]; 3=12 min; 4=16 min..	† ☐
✶**34**	EXIT DELAY (common to Types 01/02)	00–99 secs [70 secs].	Partition 1 | Partition 2 |
✶**35**	ZONE TYPE 01 ENTRY DELAY	00–99 secs [30 secs].	Partition 1 | Partition 2 |
✶**36**	ZONE TYPE O2 ENTRY DELAY	00–99 secs [60 secs]	Partition 1 | Partition 2 |
✶**37**	AUDIBLE EXIT WARNING	[0 = no]; 1 = yes.	Partition 1 † ☐ Partition 2 † ☐
✶**38**	CONFIRMATION OF ARMING DING	[0 = no]; 1 = yes.	Partition 1 † ☐ Partition 2 † ☐
✶**39**	POWER UP IN PREVIOUS STATE	0 = no; [1 = yes].	† ☐

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

DIALLER PROGRAMMING (✶40–✶53)

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 2-second 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 No. — Enter up to 16 digits. \| \| \| \| \| \| \| \| \| \| \| \| \| \| \| \|

Do not fill unused spaces. If fewer than 16 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 16 digits \| \| \| \| \| \| \| \| \| \| \| \| \| \| \| \|

Do not fill unused spaces. If fewer than 16 digits entered, exit by pressing ✶ (and press 43, if entering next field). To clear entries from field, press ✶42✶ .

	PRIMARY RECEIVER		SECONDARY RECEIVER
✶**43** PRIMARY SUBS ACCT # (PART'N 1)	| | |	✶**44** SECONDARY SUBS ACCT # (PART'N 1)	| | |
✶**45** PRIMARY SUBS ACCT # (PART'N 2)	| | |	✶**46** SECONDARY SUBS ACCT # (PART'N 2)	| | |

Enter 0–9; #+11 for B; #+12 for C; #+13 for D; #+14 for E; [#+15 for F].
To clear entries from field, press ✶43✶ , ✶44✶, ✶45✶, or ✶46✶ .

Examples: For Acct No. **1234**, enter: 1 \| 2 \| 3 \| 4

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

⋆47 PHONE SYSTEM SELECT — If Cent. Sta. *IS NOT* on a Satellite linked line: [0=Pulse Dial]; 1=Tone Dial † ☐
If Cent. Sta. *IS* on a Satellite linked line: 2=Pulse Dial; 3 =Tone Dial.

⋆48 REPORT FORMAT, PRIMARY/SECONDARY — Primary ☐ Secondary ☐
[0 or undefined] = Ademco Contact ID, 1 = Local Audio

⋆49 SPLIT/DUAL REPORTING — [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

⋆50 15 SEC DIALLER DELAY (BURG) — [0 = no]; 1 = yes. † ☐

⋆51 PERIODIC TEST REPORT — [0 = none]; 1 = 24 hours; 2 = weekly; 3 = 30 days. † ☐
(Enter Test Code in field ⋆64. Reports with Partition 1 subscriber No.)

⋆52 TEST REPORT OFFSET — 0 = 24 hour; 1 = 6 hours; [2 = 12 hours]; 3 = 18 hours. † ☐
(Time to 1st report from programming or downloading).

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

⋆56 ZONE 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 on next page*** ➡ ➡

ZONE DESCRIPTION	ZONE No. (Zn)	ZONE TYPE (ZT)	PART'N No. (P)	ALARM RPT CODE (Hex) (RC)	INPUT TYPE (In)	RESPONSE TIME (RT)
Wired Zone 1*	01	01		0100	HW	
Wired Zone 2	02	04		0100	HW	
Wired Zone 3	03	03		0100	HW	
Wired Zone 4	04	03		0100	HW	
Wired Zone 5	05	03		0100	HW	
Wired Zone 6	06	03		0100	HW	
Wired Zone 7	07	03		0100	HW	
Wired Zone 8	08	03		0100	HW	
Expansion Module Supervision	09	05	Both	0100	—	—
Duress	92	— —	Both	0100	—	—
Keypad Panic (1 & ⋆, or A)	95	00	Both	0100	—	—
Keypad Panic (3 & #, or C)	96	00	Both	0100	—	—
Keypad Panic (⋆ & #, or B)	99	06	Both	0100	—	—
	Defaults shown +		Defaults shown +			

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

EXPANSION ZONES:

With Field ⋆25 set for auxiliary wired loops (4219 or 4229), use zone Nos. only in the range of 10–17 (for loops A–H). With Field ⋆ 22 set for RF (5800), you can use any **unused** zone Nos. in the range of 10–39.

ZONE DESCRIPTION	ZONE No. (Zn)	ZONE TYPE (ZT)	PART'N No. (P)	ALARM RPT CODE (Hex) (RC)	INPUT TYPE (In)	ENTER FOR RF ONLY: LEARNED RF INPUT (L)
4219/4229 Loop A, 1st Exp'n Zone						
B, 2nd						
C, 3rd						
D, 4th						
E, 5th						

CONTINUED FROM PREVIOUS PAGE

ZONE DESCRIPTION		ZONE No. (Zn)	ZONE TYPE (ZT)	PART'N No. (P)	ALARM RPT CODE (Hex) (RC)	ENTER FOR RF ONLY [INPUT TYPE (In)	ENTER FOR RF ONLY [LEARNED RF INPUT (L)
4219/4229 Loop F,	6th Exp'n Zone						
G,	7th						
H,	8th						
	9th						
	10th						
	11th						
	12th						
	13th						
	14th						
	15th						
	16th						
	17th						
	18th						
	19th						
	20th						
	21st						
	22nd						
	23rd						
	24th						
	25th						
	26th						
	27th						
	28th						
	29th						
	30th						

EXPLANATION OF ZONE ASSIGNMENT TABLE HEADINGS

Zn = ZONE No. Zone Nos. are from 01 to 39, 92, 95, 96, 99. Some are pre-assigned.
With Field *25 set for auxiliary wired loops (4219, or 4229), use zone Nos. only in the range of 10–17 (for loops A–H).
With Field *22 set for RF (5800), you can use any **unused** zone Nos. in the range of 10–39.

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	24 = Silent Burglary
	10 = Interior w/Delay	

P = PARTITION No. 1 or 2 Default Values for zones 01 – 08 = [1].

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 as the first digit, there will be no report for that zone.
For contact ID reporting, this is enabling code only. Enter any hex digit (other than 00) in the first pair of boxes. The second pair of boxes is ignored.

In = LOOP INPUT TYPE

HW: Basic Wired (automatically assigned)
AW: 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

RT = RESPONSE TIME 0 =10msec; 1 = 350 msec; 2 = 700 msec. Default Values for zones 01 – 08 = 1 (350 msec)

L = LEARNED RF INPUT Used with 5800 RF Loop Input Devices. Record transmitter input number.

TO PROGRAMME SYSTEM STATUS, & RESTORE REPORT ENABLES (✶60–✶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 ENABLES (✶60–✶68)

✶60 TROUBLE REPORT ENABLE 1 | 0

✶61 BYPASS REPORT ENABLE 1 | 0

✶62 MAINS LOSS REPORT ENABLE ▼ 1 | 0

✶63 LOW BAT REPORT ENABLE ▼ 1 | 0

✶64 TEST REPORT ENABLE 1 | 0

✶66 ARM AWAY/STAY RPT ENABLE Part. 1 1 (AWAY) 0 (STAY)

Part. 2 1 (AWAY) 0 (STAY)

✶67 RF XMTR LOW BAT REPORT ENABLE 1 | 0

✶68 CANCEL REPORT ENABLE 0 | 0

Defaults shown ↑

RESTORE REPORT ENABLES (✶69–✶76)

✶69 RESTORE REPORT TIMING
[0=Dynamic]; 1=At disarm

✶70 ALARM RESTORE RPT ENABLE 1

✶71 TROUBLE RESTORE RPT ENABLE 1 | 0

✶72 BYPASS RESTORE RPT ENABLE 1 | 0

✶73 MAINS RESTORE RPT ENABLE ▼ 1 | 0

✶74 LOW BAT RESTORE RPT ENABLE ▼ 1 | 0

✶75 RF XMTR LO BAT RST RPT ENABLE 1 | 0

✶76 TEST RESTORE RPT ENABLE 1 | 0

Defaults shown ↑

OUTPUT AND SYSTEM SETUP (✶80–✶93)

✶80 OUTPUT RELAYS AND POWERLINE CARRIER DEVICES

✶81 ZONE LISTS FOR OUTPUT DEVICES

Programme 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.*

▼ Reports with Partition 1 Subscriber No.

✶83 ADD/DELETE RF INPUT IDs (Also entered from field ✶56): *See procedure in instructions.*

✶88 EVENT LOGGING

0 = None
1 = Alarm/Alarm Restore
2 = Trouble/ Trouble Restore
4 = Bypass/Bypass Restore
8 = Open/Close
Default = 3 (1 + 2)

For combinations of these options, enter the sum of the options desired. *Example:* To select "Alarm/Alarm Restore", and "Open/Close", enter 9 (1 + 8); To select all, enter #15. **Note:** System messages are logged when any non-zero selection is made.

✶89 EVENT LOG 80% FULL RPT ENABLE 1 | 0

✶90 PROGRAMMABLE TRIGGER OUTPUT
[0=Keypad mimic], 1=Satellite Siren Hold-Off,
2=Resettable 4-wire smoke detector power

✶91 OPTION SELECTION

0 = None
1 = Restricted User Code #15 Special Features
4 = AAV (Audio Alarm Verification)
[8 = Enable Exit Delay Restart]

For combinations of these options, enter the sum of the options desired. Ex. To select AAV and Enable Exit Delay Restart, enter 12 (4 + 8). Press [#] first to enter 2-digit options.

✶92 TELECOM 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 either partition is armed, external sounder activates also.

Note: Device #2 must either be programmed to be STOPPED in field ✶80 or STOPPED by Code + # + 8 + 2.

✶93 NUMBER OF REPORTS IN ARMED PERIOD
0 = 10 Alarm/Alarm Restore Reports; [1 = Unlimited].

DOWNLOAD INFORMATION (✶94, ✶95)

✶94 DOWNLOAD PHONE No.

| | | | | | | | | | | | | | | | |

Enter up to 16 digits, 0–9; #+11 for '✶'; #+12 for '#'; #+13 for a pause. Do not fill unused spaces. If fewer than 16 digits entered, exit field by pressing ✶ (and press 95, if entering next field). To clear entries from field, press ✶94✶.

✶95 RING DETECT COUNT FOR DOWNLOADING

[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)

Note: Do not enter "0" if using 4285/4286 Voice Module.

✶96 INITIALISES DOWNLOAD ID, SUBSCRIBER ACCOUNT No. FOR INITIAL DOWNLOAD: No data entry required.

✶97 SETS ALL PROGRAMME FIELDS TO DEFAULT VALUES: No data entry required.

✶98 and ✶99 USED TO EXIT PROGRAMME MODE (see page 7)

OUTPUT RELAYS/POWERLINE CARRIER DEVICES WORKSHEET FOR ⋆80, and ⋆81.

Applicable only if Relays and/or Powerline Carrier Devicess are to be used.

⋆80 OUTPUT DEVICES – This is an interactive menu mode. Fill in the required data on the worksheet on below and follow the programming procedure in the installation manual as you enter the data during the displays and prompts that appear in sequence.

Notes: **1.** For Relays, field ⋆25 must be programmed for a 4229 (Relays 01 and 02), OR for a 4204 (Relays 01 to 04).

2. For Powerline Carrier devices, field ⋆27 must be programmed with a House Code.

3. Tamper switches of expansion units cannot be used to operate devices.

			START =either or both-				STOP =either or both-		
DEVICE NUMBER	**X-10 SELECT**	**ACTION (A)**	**EVENT (EV)**	**ZONE LIST (ZL)**	**ZONE TYPE SYST OP'N (ZT)**	**PART'N No. (P)**	***RESTORE of* ZONE LIST (ZL)**	**ZONE TYPE /SYST OP'N (ZT)**	**PART'N No. (P)**
OUTPUT RELAY OR P.L.C.D.* **01**	☐	☐	☐	☐	☐☐	☐	☐	☐☐	☐
OUTPUT RELAY OR P.L.C.D.* **02**	☐	☐	☐	☐	☐☐	☐	☐	☐☐	☐
OUTPUT RELAY OR P.L.C.D.* **03**	☐	☐	☐	☐	☐☐	☐	☐	☐☐	☐
OUTPUT RELAY OR P.L.C.D.* **04**	☐	☐	☐	☐	☐☐	☐	☐	☐☐	☐
P.L.C.D.* **05**	☐	☐	☐	☐	☐☐	☐	☐	☐☐	☐
P.L.C.D.* **06**	☐	☐	☐	☐	☐☐	☐	☐	☐☐	☐
P.L.C.D.* **07**	☐	☐	☐	☐	☐☐	☐	☐	☐☐	☐
P.L.C.D.* **08**	☐	☐	☐	☐	☐☐	☐	☐	☐☐	☐

+* P.L.C.D. = Powerline Carrier Device (X-10).

Where:

X-10 SELECT = Powerline Carrier Device Enter "1" if Powerline Carrier Device is being used, enter "0" if relay is being used.

A = DEVICE ACTION 0 = No Response; 1 = Close for 2 sec; 2 = Close and stay closed; 3 = Pulse on and off.

EV = EVENT 0 = Not used; 1 = Alarm; 2 = Fault; 3 = Trouble.

ZL = ZONE LIST 1, 2, or 3 (from Field ⋆81) or 0 = Not Used.

"START" ZONE LIST: Upon alarm, fault, or trouble of ANY zone on this list, device action will START.

"STOP" *RESTORE of* ZONE LIST: Upon restore of ALL zones on this list, device action will STOP. It need not be same list as used for START.

ZT = ZONE TYPE/SYSTEM OPERATION

Choices for Zone Types are:

00 = Not Used
01 = Entry/Exit#1
02 = Entry/Exit#2
03 = Perimeter
04 = Interior Follower
05 = Trouble Day/Alarm Night
06 = 24 Hr Silent
07 = 24 Hr Audible
08 = 24 Hr Aux
09 = Fire
10 = Interior w/Delay
24 = Silent Burglary

Note: *Any* zone in "ZT" going into alarm, fault, or trouble will actuate relay. *Any* zone of that type that restores will stop relay action.

Choices for System Operation are:

20 = Arming–Stay
21 = Arming–Away
22 = Disarming (Code + OFF)
31 = End of Exit Time
32 = Start of Entry Time
33 = Any Burglary Alarm
36 = **At Siren Timeout***
38 = Chime
39 = Any Fire Alarm
40 = Bypassing
41 = **Mains Power Failure
42 = **System Battery Low
43 = Communication Failure
52 = Kissoff
58 = Duress

** Use 0 (Any) for Partition No. (P) entry.

*** Or at Disarming, whichever occurs earlier.

Note: In normal operation mode:
Code + # + 7 + N Key Entry **starts** Device N.
Code + # + 8 + N Key Entry **stops** Device N.

P = PARTITION No. 1, 2, or 0 for Any

✶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 boxes 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 and/or assignment of Chime zones (enter 00 to end entries).

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

Zone List 4: Assignment of common area zones* (enter 00 to end entries).

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

* If this feature is programmed, the “common” area (such as a foyer or lobby) can be regarded as a third partition, though not independently programmable. See the Installation Instructions for details.

SPECIAL MESSAGES

OC = OPEN CIRCUIT (no communication between Keypad and Control).

EE = ERROR (invalid field number entered; re-enter valid field number).

After powering up, **AC, dI** (disabled) or **System Busy** and **NOT READY** will be displayed after approximately 4 seconds. This will revert to the “**READY”** message in appx. 1 minute, which allows PIRS, etc. to stabilise. To bypass this delay, press: [#] + [0].

If **E4** or **E8** appears, more zones than the expansion units can handle 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 I**nstaller 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 programme 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 "#".

®ADEMCO

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V20SEaPRV1 9/98