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# **VISTA-20HW**

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**2-PARTITIONED  
SECURITY SYSTEM**

**PROGRAMMING  
FORM**

**®ADEMCO**

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

NOTE: For UL installations, the system may be configured as a single partition only.

Field	Function	Programmed Values	[ ] = Default Value
<b>SYSTEM SETUP (*20--*30)</b>			
*20	INSTALLER CODE	Enter 4 digits, 0-9 [4 1 1 2]	<input type="text" value="       "/>
*21	QUICK ARM ENABLE	[0 = no]; 1 = yes	Partition 1 † <input type="checkbox"/> Partition 2 † <input type="checkbox"/>
*23	FORCED BYPASS	[0 = none]; 1 = bypass open zones "0" for UL installations.	Partition 1 † <input type="checkbox"/> Partition 2 † <input type="checkbox"/>
*25	WIRED ZONE EXPANSION	[0 = none]; 1 = 4219; 2 = 4229; 3 = 4204	† <input type="checkbox"/>
*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	<input type="checkbox"/>
*28	VOICE MODULE ACCESS CODE (4285)	(Partition 1 only) 1st digit: enter 1-9; 2nd digit: enter # + 11 for "*", or # + 12 for "#". Default = 00 (no 4285 Module).	<input type="text" value="   "/>
*29	OUTPUT TO LONG RANGE RADIO	To enable, enter Trouble code 1-9, 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" for UL installations.	<input type="checkbox"/>
*30	KEYSWITCH ENABLE (ZONE 7)	Enter 1 to enable, [0 to disable].	<input type="checkbox"/>
<b>ZONE SOUNDS AND TIMING (*32--*38)</b>			
*32	SINGLE ALARM SOUNDING/ZONE	1 = yes; [0 = no]. "0" for UL installations.	† <input type="checkbox"/>
*33	FIRE SOUNDER TIMEOUT	[0 = timeout]; 1 = no timeout.	† <input type="checkbox"/>
*34	ALARM BELL TIMEOUT	0=none; [1=4 min]; 2=8 min; 3=12 min. "1" (4 min.) minimum for UL.	† <input type="checkbox"/>
*35	ZONE TYPE 01 ENTRY DELAY	0 = 0, 1=20 secs, [2=30 secs], 3=45 secs, 4=60 secs; 5=90 secs. "1" max. for UL installations. Zone Type 02 Entry Delay = Zone Type 01 Delay + 30 secs. Exit Delay = Zone Type 01 Entry Delay + 40 secs.	Partition 1 † <input type="checkbox"/> Partition 2 † <input type="checkbox"/>
*36	AUDIBLE EXIT WARNING	0 = no; [1 = yes].	Partition 1 † <input type="checkbox"/> Partition 2 † <input type="checkbox"/>
*37	CONFIRMATION OF ARMING DING	[0 = no]; 1 = yes.	Partition 1 † <input type="checkbox"/> Partition 2 † <input type="checkbox"/>
*38	POWER UP IN PREVIOUS STATE	0 = no; [1 = yes]. "1". for UL installations.	† <input type="checkbox"/>
<b>DIALER PROGRAMMING (*40--*53)</b>			
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 4 digits. If fewer than 4 digits are entered, exit by pressing * (and press 41, if entering next field). To clear entries from field, press *40*.	<input type="text" value="       "/>
*41	PRIMARY PHONE No.	Enter up to 12 digits. Do not fill unused spaces. If fewer than 12 digits entered, exit by pressing * (and press 42, if entering next field). To clear entries from field, press *41*.	<input type="text" value="                       "/>
*42	SECONDARY PHONE No.	Enter up to 12 digits. Do not fill unused spaces. If fewer than 12 digits entered, exit by pressing * (and press 43, if entering next field). To clear entries from field, press *42*.	<input type="text" value="                       "/>
*43	PRIMARY SUBS ACCT # (PART'N 1)	PRIMARY RECEIVER <input type="text" value="     "/>	SECONDARY RECEIVER <input type="text" value="     "/>
*44	SECONDARY SUBS ACCT # (PART'N 1)	PRIMARY RECEIVER <input type="text" value="     "/>	SECONDARY RECEIVER <input type="text" value="     "/>
*45	PRIMARY SUBS ACCT # (PART'N 2)	PRIMARY RECEIVER <input type="text" value="     "/>	SECONDARY RECEIVER <input type="text" value="     "/>
*46	SECONDARY SUBS ACCT # (PART'N 2)	PRIMARY RECEIVER <input type="text" value="     "/>	SECONDARY RECEIVER <input type="text" value="     "/>

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

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\*, \*45\*, or \*46\*.

Examples: For Acct No. 1234, enter:   
For Acct No. B234, enter:   
For Acct No. 123, enter:



## EXPLANATION OF ZONE ASSIGNMENT TABLE HEADINGS

**Zn = ZONE No.** Zone Nos. are from 01 to 63, 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.

**ZT = ZONE TYPE**

00 = Not Used	05 = Trouble Day/Alarm Night	10 = Interior w/Delay
01 = Entry/Exit #1	06 = 24 Hr Silent	23 = No Alarm Response
02 = Entry/Exit #2	07 = 24 Hr Audible	24 = Silent Burglary
03 = Perimeter	08 = 24 Hr Aux	
04 = Interior Follower	09 = Fire	

DEFAULT VALUES				
Zn:	01	02	03	04
ZT:	[09]	[01]	[03]	[03]
Zn:	05	06	07	08 99
ZT:	[03]	[03]	[03]	[03] [06]

**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: Hard Wire  
 AW: Aux Wire (4219 or 4229)

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

**EXPANSION ZONES (continued from previous page)**

ZONE DESCRIPTION	ZONE No. (Zn)	ZONE TYPE (ZT)	PART'N No. (P)	ALARM RPT CODE (Hex) (RC)	INPUT TYPE (In)
4219/4229 Loop E, 5th	<input type="text" value="1"/> <input type="text" value="4"/>	<input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	AW
F 6th	<input type="text" value="1"/> <input type="text" value="5"/>	6th <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	AW
G, 7th	<input type="text" value="1"/> <input type="text" value="6"/>	<input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	AW
H, 8th	<input type="text" value="1"/> <input type="text" value="7"/>	<input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	AW

**TO PROGRAM SYSTEM STATUS, & RESTORE REPORT CODES (\*59-\*76, & \*89):**

With a 3+1 or 4+1 Standard Format: Enter a code in the first box: 1-9, 0, B, C, D, E, or F. Enter "#+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 when programming.

With an 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.

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:

For Code 32 (two digits), enter:

For Code B2 (Hexadecimal), enter:

\*66 ARM AWAY/STAY RPT CODE Part. 1   ††  
 AWAY STAY  
 Part. 2   ††  
 AWAY STAY

\*68 CANCEL REPORT CODE

**RESTORE REPORT CODES (\*69-\*76)**

\*69 GROUP RESTORES for TROUBLE,   
 BYPASS: [0 = no (report for each restore), 1 = yes (report after all zones restored)]  
 Note: "1" not applicable to Contact ID reporting.

\*70 ALARM RESTORE RPT CODE   
 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.

\*71 TROUBLE RESTORE RPT CODE

\*72 BYPASS RESTORE RPT CODE

\*73 AC RESTORE RPT CODE ▼

\*74 LOW BAT RESTORE RPT CODE ▼

\*76 TEST RESTORE RPT CODE

**OUTPUT AND SYSTEM SETUP (\*80-\*93)**

<p>*80 OUTPUT RELAYS AND POWERLINE CARRIER DEVICES</p> <p>*81 ZONE LISTS FOR OUTPUT DEVICES</p>	<p><i>Program only if Relays and/or Powerline Carrier devices are to be used. See next two pages.</i></p>
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†† 2nd digit is automatically sent as the user number if expanded or 4+2 reporting is selected.

**SYSTEM STATUS REPORT CODES (\*59-\*68)**

- \*59 EXIT ERROR REPORT CODE  †
- \*60 TROUBLE REPORT CODE
- \*61 BYPASS REPORT CODE
- \*62 AC LOSS REPORT CODE ▼
- \*63 LOW BAT REPORT CODE ▼
- \*64 TEST REPORT CODE
- \*65 OPEN REPORT CODE Part. 1  ††  
 Part. 2  ††

† 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.

▼ Reports with Partition 1 Subscriber No.

- \*82 CUSTOM ALPHA EDITING: (Also entered from field \*56): See procedure in instructions.
- \*89 EVENT LOG 80% FULL RPT CODE
- \*90 EVENT LOGGING   
 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 = "3".  
 Note: System messages are logged when any non-zero selection is made.
- \*91 OPTION SELECTION [0 = None]; 4 = AAV   
 "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 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.  
 "1" for UL installations.

**DOWNLOAD INFORMATION (\*94,\*95) ◇**

- \*94 DOWNLOAD PHONE No.
- Enter up to 12 digits, 0-9; #+11 for '\*'; #+12 for '#'; #+13 for a pause. Do not fill unused spaces. If fewer than 12 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   
 [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 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")

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

*Applicable only if Relays and/or Powerline Carrier Devices 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 contacts or expansion units cannot be used to operate devices.

DEVICE NUMBER	X-10 SELECT	ACTION (A)	START ← either or both →				STOP ← either or both →		
			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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
OUTPUT RELAY OR P.L.C.D.* 02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
OUTPUT RELAY OR P.L.C.D.* 03	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
OUTPUT RELAY OR P.L.C.D.* 04	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P.L.C.D.* 05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P.L.C.D.* 06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P.L.C.D.* 07	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P.L.C.D.* 08	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*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 Trouble
- 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 Bell Timeout\*\*
- 38 = Chime
- 39 = Any Fire Alarm
- 40 = Bypassing
- 41 = \*\*AC 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 (enter 00 to end entries).

,  ,  ,  ,  ,  ,  ,  ,  ...etc.

**SPECIAL MESSAGES**

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

EE = 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 approximately 1 minute, which allows PIRS, etc. to stabilize. 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 **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 "#".**

- NOTES -



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