ADEMCO VISTA-20P / VISTA-20PSIA and VISTA-15P / VISTA-15PSIA

Quick Installation Guide (FOR DOCUMENTATION AND ONLINE SUPPORT: http://www.security.honeywell.com/hsc/resources/MyWebTech [see instructions K5305-1V7 or higher])

1. Mount the Control

- 1. Mount the control cabinet to a sturdy wall in a clean, dry area, which is not readily accessible to the general public, using fasteners or anchors (not supplied) with the four cabinet mounting holes.
- 2. Remove cabinet door, then remove the lock knockout from the door. Insert the key into the lock
- 3. Position the lock in the hole, making certain that the latch will make contact with the latch bracket when the door is closed. When correctly positioned, push the lock until the snap tabs hold it securely.



- The cabinet can be secured without a lock by using 2 screws in the cover's edge.
- 4. Before installing the cabinet's contents, remove the cabinet knockouts needed for wiring entry. Do not remove the knockouts after the PC board has been installed.
- 5. Mount the PC Board. Refer to the diagram below.



Mounting the PC Board

3. Connect the Transformer & Battery.

1321 Transformer (1321CN in Canada)

 Do not plug the transformer into the AC outlet until all wiring connections to the control are complete. As a safety precaution, always power down the control when making such connections.

1361X10 Transformer

(required if using Powerline Carrier devices)

- 1. Splice one end of a 3-conductor cable to the wire ends of the SA4120XM-1 cable.
- 2. Connect the SA4120XM-1 cable plug to the 8-pin connector on the control.
- 3. Connect the other end of the 3-conductor cable to the 1361X10 Transformer.

Canadian Installations: For Powerline Carrier Devices, use the PSC04 X-10 Interface and trigger connector pins.

Battery Connections

- After all connections to the control are completed and after AC power has been applied, connect the red and black flying leads on the control board to the battery.
- This control will not power-up on battery alone (AC power must be applied). However, once the system is powered up, it will operate on battery if AC is lost.

UL For UL installations and Residential fire installations, refer to the chart below for the correct battery size required to meet the mandatory standby time.

CALIFORNIA STATE FIRE MARSHALL (CSFM) AND UL RESIDENTIAL FIRE 24-HOUR BATTERY BACKUP REQUIREMENTS

The California State Fire Marshal and UL have regulations which require that all residential fire alarm control panels must be provided with a backup battery which has sufficient capacity to operate the panel and its attached peripheral devices for 24 hours in the intended standby condition. followed by at least 4 minutes in the intended fire alarm signaling condition. This control panel can meet these requirements without using a supplementary power supply, provided that the panel's auxiliary power and bell output currents are limited as listed below.

OUTPUT LIMITATIONS AND REQUIRED BATTERIES

OUTPUT CURRENT LIMITS		BATTERY INFORMATION	
Current Total	Max. Aux.	Battery Capacity	Recommended Battery
600m A	Current	(Amp/Hrs)	(Yuasa Model No.)
boomA movimum total	45mA	4AH	NP4-12 (or ADEMCO 467)
of ouviliary	160mA	7AH	NP7-12
or auxiliary	200mA	8AH	NP4-12 (two) ‡
power plus bell	425mA	14AH	NP7-12 (two) ‡
output currents	500mA	17.2AH	NPG18-12

‡ NOTE: Use two batteries, connected in parallel. Obtain an Ademco Battery Harness Kit SA5140-1. (Both batteries will fit inside the cabinet.



2. Connect Devices, Zones, Sounder, and Phone Line.

Refer to the Wiring Diagram on the reverse side for connection information. NOTE: This system uses a range of reserved addresses for each type of device. Connect kovereds and other addressable devices to the ECP terminals 4-7

Ref	Refer to the wiring chart below for wire sizes and maximum wire run lengths.					
	Wire Chart For Devices Drawing Aux Power From The Control (12V+ & 12V–)					
Wire	TOTAL CURRENT OF ALL DEVICES CONNECTED TO A SINGLE WIRE RUN					
Size	50 mA or less	100 mA	300 mA	500 mA	600 mA	
#22	900ft (274m)	450ft (137m)	150ft (46m)	90ft (27m)	75ft (23m)	
#20	1400ft (427m)	700ft (213m)	240ft (73m)	140ft (43m)	120ft (37m)	
#18	1500ft (457m)	1100ft (335m)	350ft (107m)	220ft (67m)	170ft (52m)	
#16	1500ft (457m)	1500ft (457m)	550ft (168m)	350ft (107m)	270ft (82m)	

The length of all wire runs for both partitions combined must not exceed 1500 feet (457m) when unshielded quad conductor cable is used (750 feet if shielded cable is used)

Standard Keypads (6150 / 6160 series)

- Set each keypad's address (16-23) accordingly. Address 16 is reserved for the first keypad and is always enabled in the control.
- Use data fields *190-*196 to enable keypads and set their sounding options.

Expander Modules (4219, 4229)

- Set each module's address (07-11) using the module's DIP switches.
- Use *56 Menu mode to program zone characteristics.
- Touchscreen Keypads (6270 / 6271 series, 8132 series)
- Set each touchscreen's address accordingly (01, 02, 05, 06) and enable in field *189.
- Make sure the auxiliary current drain is within the control's limitation. Otherwise use an external power supply to power the touchscreen keypads.

Relay Modules (4204)

- Connect desired field wiring to the module's relay contact terminals.
- Set each module's address (12-15) using the module's DIP switches.
- Use *79 / *80 Menu modes to enter each device address and define functions.
- **RF Receiver** (5881, 5883, RF Keypad)
- · Set the receiver's address to 00 using the module's DIP switches.
- If using wireless keypads, set field *24 RF House ID Code appropriately.
- If receiver is mounted remotely, note the following:
- · Do not locate the receiver or transmitters on or near metal objects. This will decrease range and/or block transmissions
- Do not locate the RF receiver in an area of high RF interference (indicated by frequent or prolonged lighting of the receiver's LED; random flicker is OK).
- Do not locate RF receiver closer than 10 feet from any keypads.

Major Features and Capacities 4. Program the Control. Refer to the Programming Guide to program the control. Feature (The control can also be programmed via the Compass Downloader.) Partitions 1. Enter Programming Mode: installer code + 8-0-0. Zones 2. Change the default Installer Code using field *20. 3. Enter the appropriate central station phone numbers and account numbers. 4. Program the system data field options as desired. 4. Use the various menu modes to program zones, relay outputs, descriptors, etc. 5. If AVS system is installed, use the appropriate AVS Quick Program Command. 6. Program Schedules (if used): Master code + [#] + 64 7. Enable RF button keyfobs (if used) and assign to user numbers accordingly. 8. Show the Master user how to change the default Master code: master code + [8] + 0-2 + new code + new code again Security Codes Schedules 5. Test the System. Keypad macros 1. Disarm; the system and close all protected windows, doors, etc. Event Logging 2. Enter the Master code + [5] (TEST), then press [0] (walk). Paging 3. Listen. The external sounder should sound for about 1 second then turn off. Keypads 4. Fault zones in turn and listen for three beeps from the keypad. ID of each faulted point should appear **Touch Screen Devi** on the display. The display clears when the zone is restored. 4219, 4229 5. Walk in front of any interior motion detectors and listen for three beeps. The identification of the detector 4204 should appear on the display when it is activated.

- 6. Test all smoke and CO detectors, following the manufacturer's instructions. The identification of each detector should appear on the display when activated.
- 7. When all protection points have been checked and are intact (closed), there should be no zone identification numbers displayed on the keypad.
- 8. Exit test mode: security code + [1] (OFF)

Output Relays / X-1

On-Board Triggers Output Functions

AVS System

Communication Device (7847i, 7845GSM, 7845i-GSM)

Set the communication device to address 03.

• Use *29 Menu mode to enable and program the device.

• If used, follow the installation instructions provided with the module. · Connect the AVS module to the control's ECP terminals and connect all other ECP devices to the AVS module's ECP terminals.

• Set the AVS address using its DIP switches: V15P = 08; V20P = 11

• Use the desired AVS Quick Program Command to set pre-defined options:

installer code + 0-3: enable AVS operation

installer code + 0-4: enable AVS and enable panel sounds on AVST speaker

Use field *55 Dynamic Signaling Priority to select the desired reporting paths.

2. Connect hardwire zones to the appropriate zone terminals 8-20.

3. On-Board Trigger Connections

 Connect field wiring to the appropriate trigger pin using the SA4120XM-1 cable (if using 1361X10 transformer) or the 4-wire cable supplied (N4632-4).

Trigger outputs are normally high, and go low upon programmed condition.

Outputs can be set for inverted operation (low, go high) using *79 Menu mode.

• Use *79/*80 Menu modes to program the trigger outputs.

4. Install Wireless Zone Transmitters.

• Use *56 Menu mode to program wireless zones and enroll the transmitters.

• Use the Go/No Go Test mode to verify adequate signal strength from each transmitter location: With system "Ready to Arm," enter Installer code + [#] + 4, then fault each transmitter and listen for 3 beeps at the keypad and the zone display. Exit mode: user code + [1] (OFF).

5. Connect the external sounder to terminals 3 and 4.

· If supervised output desired, see Sounder Supervision wiring diagram on reverse side, and set field *91 Option Selection for Bell Supervision.

6. Connect the phone line using terminals 21-24.

Use an RJ31X jack as shown in the diagram on reverse side.

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WARRANTY INFORMATION

For the latest warranty information, please go to: www.honeywell.com/security/hsc/resources/wa

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AC POWER AND BATTERY CONNECTION



1. CONNECT THE TRANSFORMER TO TERMINALS 1 AND 2.

SEE WIRE RUN CHART.	TRANSFORMER WI	RE RUNS
USE CAUTION WHEN WIRING	Distance from control	Wire Siz
CONTROL TO GUARD AGAINST	Up to 50 feet	# 20
BLOWING THE TRANSFORMER	50 - 100 feet	# 18
NON-REPLACEABLE)	100 - 200 feet	# 16

- AFTER ALL WIRING CONNECTIONS ARE COMPLETE, PLUG TRANSFORMER INTO A 110VAC UNSWITCHED OUTLET (24HR)
- USE 1361X10 TRANSFORMER INTERFACE WHEN POWER LINE CARRIER DEVICES ARE BEING USED.
- "AC LOSS" DISPLAYED IF VOLTAGE FALLS BELOW 16.5VAC.

BATTERY

- 1. PLACE THE 12-VOLT BACKUP BATTERY IN THE CABINET.
- 2. AFTER ALL CONNECTIONS TO THE CONTROL ARE MADE AND AC POWER HAS BEEN APPLIED, CONNECT THE RED AND BLACK FLYING LEADS TO THE BATTERY.
- · CONNECT ONLY AFTER AC POWER HAS BEEN APPLIED.

IMPORTANT: THE PANEL WILL NOT POWER UP INITIALLY ON BATTERY POWER ONLY. YOU MUST PLUG THE TRANSFORMER IN FIRST, AND THEN CONNECT THE BATTERY.

SOUNDER CONNECTION

- CONNECT SOUNDER TO BELL TERMINALS 3 (+) AND 4 (-).
- SOUNDER ACTIVATES UPON ALARM EVENT.
- 10.5–13.8VDC, 2A MAX. (600mA MAX. FOR UL USAGE, INCLUDING AUX POWER) STEADY FOR BURGLARY/PANIC, TEMPORAL PULSE SOUNDING FOR FIRE.
- CAN USE ADEMCO No. 702 SIREN, OR 12V BELL
- A BATTERY MUST BE INSTALLED BECAUSE THE BATTERY SUPPLIES THE CURRENT







4. INSTALL TRANSMITTERS ACCORDING TO THEIR INSTRUCTIONS.

WIRELESS ZONE NUMBERS		
VISTA-20P:	VISTA-15P:	
TRANSMITTER ZONES 9-48	TRANSMITTER ZONES 9-34	
BUTTON ZONES 49-64	BUTTON ZONES 49-56	

