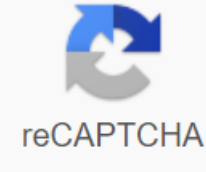




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Honeywell alarm keypad installation

Professional Security System Installation Made Easy Vista 20P Control Panel has twenty-five connections. It sounds like a lot, but it's really just a simple set of connections. The transformer converts your 110 volt outlet voltage to an easier-to-use (and safer) 16.5 volt to turn on the Vista 20P measuring speaker wire. 18 is perfect for running power from the transformer to your control panel. It is an AC power source, so polarity is not a concern when transformer cables to terminals one and two vista 20P. Terminal 3 is the siren output. When an alarm occurs, this 12 volt output becomes high to sound the connected siren. Terminal 3 = Positive Siren Terminal 4 = Negative Siren () Terminal 5 is an additional power output used for power devices connected to Vista 20P. Devices that get their power here include keypads, motion detectors, glass damage detectors, etc. Terminal 4 = Negative for aux devices and sirens () Terminal 5 = Continuous 12 volt output (+) Terminals 6 and 7 are ECP circuits. ECP circuits are lines of communication for data-driven devices such as keypads, internet communicators, relay modules, and wireless receivers. Terminal 6 (Green) = data in Terminal 7 (Yellow) = Keypad exit data is easily marked with a wire color designation to fit the ECP Vista 20P terminal. Black, red, green, and yellow are the distinctive colors used in four conductor security wires. The 6160RF keypad included in the V20P60RFPK kit has a built-in wireless receiver that allows the use of wireless devices on your system. If you don't already have a 6160RF, you can add a standalone receiver like ENH 5881. There are eight hardware zone connections on Vista 20P. Zone one is special because it can, if needed, power a two-wire smoke detector. Zones two to eight are special because they can double zones to provide two zones per zone connection. The typical do-it-yourself system has no more than eight hardware zones and no smoke detector circuitry, so this tutorial will continue with the understanding that your system will fall into the typical range of diy systems (eight zones or less, no smoke detector circuits). Keep in mind that you still have dozens of wireless zones available separate from the on-board hardware zone. This is how to connect a powered device to a hardware zone. The ohm 2000 resistor (supplied) is mounted on the device to allow the control panel to keep an eye on the wire along its path. To be honest, most installers only install resistors in the control panel zone to make future system upgrades easier (finding resistors in doors and window zones can be a pain). Simplify, as long as the resistor is somewhere (anywhere) in the control panel will consider a valid zone. TIP: The best, easiest, and cheapest way to connect the resistor to the wire is by soldering using a cigarette lighter. Soldering is and the lighter will heat the area to a suitable temperature in just a few seconds. .gill above is a summation on how to connect door and window contacts to hardware zones. A number of contacts can be grouped into one zone. A description of a typical contact zone is the Windows Living Room or The Back Basement Window. Try to keep the door zone single. The Front Door as a zone is much more useful during alarm conditions than Windows and Main Floor Doors. The telephone line is used to report the alarm signal to the receiver of the alarm company's central station. Alarm signal phone communication became obsolete with modern digital phone systems rejecting the 1980 modem technology used in alarm panels. That being said, below is a diagram explaining the phone connection of Vista 20P. Terminal 25 = Earth Ground Terminal 25 is an earthhand connection. These connections are optional, and most often not made. If you have a useful grounding location (copper water pipes, ground rods, etc.) feeling free, it will offer a degree of surge protection to the panels. Honeywell Installation FAQ I need a new transformer for my Honeywell Vista alarm panel, what kind do I need to buy? Honeywell panels use a 16.5 volt transformer, usually a 25VA or 40VA model. Transformers don't work, so any brand will work. The only real requirement is its voltage rating (16.5 volts) at the current output minimum of 25VA. My motion detector is worrying about fakes, how do I fix them? Most alarm systems have standard PIR-type motion detectors that work by detecting a person's body heat while moving along cooler walls, floors and furniture backgrounds. The problem is that PIR can be deceived by a number of environmental issues. Check: Heating vents blowing on the lens of the detector Heating vents blowing on plants or curtains near the Spider web detector near the detector, or live insects that may crawl over the detector Plants that are too close to the detector Any movement detector will eventually become bad and need to be replaced. Cable motion detectors don't belong, so if you need a replacement you might as well upgrade to Bosch Tri-Tech One of my doors no longer activates alarm system, how do I fix it? Internal contact doors or windows are very fragile and can be damaged by something as simple as a static charge from a striking lightning bolt nearby. Bad contacts will remain closed when they have to stumble, or remain stumbling when they need to be closed. Sometimes it will even fall somewhere in the middle by adding resistance to the closure, or never fully open when tripping. Long story short, if you have bad contact, you replace it quite easily. Most residential contacts are 3/8 recess press match contacts. Pry out contact using a small flat head screwdriver Cut two wires near the contact Strip back about 1/4 of from on each wire Use Terminal Type 3/8 Contacts instead (either wire to one of the terminals) Press the new contact back to the original hole you sometimes need to use a spackle or wood filler to smooth the area around the contact. We are participants in the Amazon Services LLC Associate Program, an affiliate advertising program designed to provide a means for sites to earn advertising costs by advertising and linking to the ADEMCO 6160RF Keypad/Transceiver K0903V1 2/06 Rev Amazon.com MyAlarmGuy.net. B Installation and Setup of the ADEMCO 6160RF keypad/transceiver General Guide is a combination unit that incorporates the following device functions: • 6160 Alphanumeric Addressable Keypad • 58 RF 81H Receiver • 5800TM Keypad/6160RF Transceiver Transmitter Module can be used on any control panel that supports 5800 Series wireless devices (for example, VISTA-10P, VISTA-15P, VISTA-20P). FEATURES • Supports wireless key transmitters (e.g., 5804) and two-way transmitters (e.g., 5804BD, 5828/5828V). • Supports wireless keys with high security capabilities (encryption) (e.g., 5804E). • Provides a nominal range of 200 feet for RF transmitters (some transmitters have a shorter range). • Supports RF jam detection when receiver is activated. • Able to send status signals (Armed, Ready, etc.) to two-way units such as 5804BD, 5804BDV and 5828/5828V. The following UL 5800 series transmitters are not intended for use in UL installations: 5802, 5804, 5804BD, 5804BDV, 5804E, 5814, 5816TEMP, 5819, 5819BRS, 5819WHS, 5828/5828V and 5850. 2. Deliver the cable from the control panel via INSTALLING THE 6160RF Find 6160RF in the area and at the height where it is convenient for user operation. The 6160RF must be at least 10 feet from the control panel to ensure proper rf receiver operation. Installation and Opening cable in case of return. (see the control panel instructions for the right length of road.) A. If the surface cable is used, the cable can be routed through the top or bottom of the left door in case of return. Escapes must be boxed using a screwdriver before reattaching the case. B. If desired, the cable may be relieved with the wire tie point on the inside of the back box with a tie wrap (not provided). 3. Plug the case back into the wall or into the electric box using the provided 25mm long self-tapping screw (mollies for drywall are not provided). 4. Connect the power and data cable from the control panel to the terminal at 6160RF as shown in Figure 2 and Table 1. The 6160RF has a terminal block for connection to power and data cables. Deleting the keypad case again provides access to the terminal block. The 6160RF can be mounted directly to the wall, or to a single or double gang power box. Follow these steps to install and wire keypad: 1. Push two cases snap at the bottom of the keypad with a medium screwdriver bar (this will push the release snap), then drag that side of the case back. Insert the screwdriver on the side of the keypad (between the front and back boxes) and gently rotate it to remove the side locking tab. Repeat for the other side. See Figure 1 for the location of the case re-release snap and the locking tab. Y+ ARMED G++ + + READY NOTE: TO REMOVE THE REAR COVER THRUST IN TWO MOUNTING SNAPS LOCATED ALONG THE BOTTOM OF THE KEYPAD AND LIFT THE COVER. 6160RF-003-V1 6160RF-002-V1 MOUNTING RELEASE SNAPS LOCKING TAB WIRING TERMINALS (TO CONTROL PANEL) Figure 1. Delete Case Back Figure 2 - 6160RF Wiring Details Table 1 - Wiring Table Keypad GM (Data Out) + LY (Data In) Control Panel Data In -Aux Pwr (GND) +Aux Pwr Data Out Wire Color Green Black Red Yellow 5. Reinstall the keypad to the reinstalled case. Attach the top of the keypad first, then press the bottom down until it is positioned into place safely. 6. Peel the protective film on the LED panel and install the keypad label as needed. APPLICATION GUIDELINES FOR 6160RF Use the following guidelines when planning an installation: If... This is the only transceiver on the system, and ... You want to use the receiver and transmitter functions on a single partition system. Then ... • Set the keypad to the device address assigned to the desired partition. • Enable receiver. • System Home ID program in the control panel (this will allow transmitter functionality). • Set the wireless device that will communicate with this 6160RF to the same system Home ID. There are other receivers or transceivers on the system, you just want to use the transmitter function on the second partition. • Set the keypad to the device address assigned to the desired partition. • Disable the receiver. • Different Home ID programs at 6160RF than those programmed in the control panel. • • Set the wireless device that will communicate with this 6160RF to the same Home ID as 6160RF. You only want to use the transmitter function on a singlepartition system. • Set the keypad to the device address assigned to Partition 1. • Turn off the receiver. • Home ID program at 6160RF that matches the system Home ID programmed in the control panel. • • Set the wireless device that will communicate with this 6160RF to the same Home ID. Note: • In vista-40 panels and above, wireless keypads (for example, 5804BD) can only be used on one partition. This partition is programmed in a field of 1*48, and must match the partition set to 6160RF. Wireless buttons can be used on more than one partition, using a Home ID programmed at 6160RF and devices. In this case, the wireless key must be set to a partition equal to 6160RF. • On vista-20P panel, 6160RF will use Home ID in the pane for the specified partition. Wireless keypad can only be used on Partition 1. THE 6160RF PROGRAMMING Refers to the following procedure for programming 6160RF: STEP 1. 2. DESCRIPTION Enter program mode by pressing the [1] and [3] keys simultaneously for a few seconds within 60 seconds after applying power. (Keypad Address) Enter a two-digit keypad address. Press the [8] button to continue. Note: (1) See the control panel installation instructions for acceptable keypad addresses. (2) On VISTA-40 and above partition assignment 6160RF must match the determination of rf keypad partitions programmed in the field (1*48). CON ADDRESS DISPLAY OPTIONS = XX 00-31 3. (Activate Recipient) Enter [1] to activate, or [0] to turn off receivers. Turn on the receiver if the RF transmitter or wireless keypad is programmed into control and no other receiver is activated. Press the [8] button to continue. RECEIVER ON [0= OFF] 1= ON 0 = OFF -2- STEP 4. DESCRIPTION (Recipient Address) If the recipient is enabled, enter the recipient's two-digit address. (01-30). Note: See the control panel installation instructions for acceptable recipient addresses. DISPLAY OPTIONS 00-30 ADDRESS REC= XX 5. Press the [8] button to continue. (Home ID) This command will only appear if the recipient is disabled. If the recipient is enabled, 6160RF will use the Home ID programmed in the panel. See the App Guidelines section when selecting a Home ID. To program your Home ID: Enter 01-31. To disable transmitters: Enter 00 Note: Each device that will receive status from 6160RF must be set to the same Home ID as 6160RF (see the Application Guidelines section). HOME ID = XX 00-31 6. Press the [8] button to continue. (Enable High Security Mode) Enter [1] to select High Security Mode. Note: If High Security mode is turned on, 6160RF will only recognize encrypted devices. If this mode is disabled, 6160RF will process commands on both encrypted and non-encrypted devices. • HIGH SECURITY OFF [1] [1] = ON 1= Enable 0 = Disable Press the [8] button to continue. 7. (Disable High Security Devices) Press the [8] button to skip this prompt and exit Program Mode. Note: (1) The [8] button must be pressed multiple times to save the programmed data. (2) If you need to disable encrypted devices, see the Disable High Security Devices section. DISABLE HS DEV? NO [1] [1] = YES 1= YES 0 = NO • When operating the system in High Security mode, the 5804BD wireless button will still work. If you want the system to recognize only encrypted wireless devices, the program is only an encrypted device in the system. ENABLE HIGH SECURITY DEVICES The following procedures must be followed if using a High Security (encrypted) device. STEP 1. 2. 3. Follow normal procedures to program the device to the control panel (see (see Instructions for the device you are programming). Exit Programming Mode. Place the control panel in Go/ No Go Test mode. (See the Installation Guide for the panel that is currently installed.) Follow the instructions that come with each wireless device to register the device in High Security Mode. Once each device is registered, 6160RF displays the SECURITY DEVICE momentarily along with the device number and serial number. Note: 6160RF will support up to 8 devices. If you try to register an additional device, the keypad displays EXCEEDING THE ALLOWED DEVICE NUMBER. DISABLE HIGH SECURITY DEVICES This mode gives you the ability to disable high security on all wireless keys that have been registered at 6160RF. This is especially useful if the user loses the wireless key. STEP 1. After a high security (encrypted) device is disabled, the device will only operate if 6160RF is set to listen to encrypted and unencrypted devices (programming step 6, above). To completely disable the device, the device must be removed from the control panel. DESCRIPTION After the keypad is powered for at least 60 seconds hold down the [1] and [3] keys at the same time for 3 seconds. The current keypad address is displayed. (You cannot change the keypad address at this time.) Press the [8] button to continue. (Remove High Security Device) Press the [1] key to remove all high-security (encrypted) devices. Press the [8] button to continue. If YES is selected in Step 2 the unit will display a confirmation request to remove the stored high security device. Press the [1] key to accept, followed by the [8] button to exit programming mode. DISPLAY OPTIONS 00-31 CON ADDRESS=XX 2. 3. DISABLE HS DEV? NO [1] [1]=YES ARE YOU SURE? NO [1]=YES 1= YES 0 = NO 1= YES 0 = NO -3- TROUBLESHOOTING The error messages listed in the following table cause 6160RF to generate a single ding tone. The table describes error messages and corrective actions. Show Low Bat (with zone no.) Go to Ckt Check 100 Check 1xx* Possible Low Battery Causes on wireless devices. No data is received from the control panel. 1. The Control Panel does not see the 6160RF receiver, or the receiver does not work. 2. Other devices in the keypad terminal do not communicate to the control panel. Corrective Action 1. Replace the battery if the wireless transmitter has a replaceable battery. 2. Replace the transmitter if the wireless transmitter does not have a replaceable battery. Make sure that the LY keypad wire (yellow) is connected correctly. 1a. Verify that the LY (yellow) and GM (green) keypad cables are connected correctly. 1b. Verify that the recipient's control address is correct. 2. Verify the cable connection between the control and all other devices, the recipient's device address. PHYSICAL SPECIFICATIONS: Cable: Range: Frequency: Frequency: H x 7-3/8W x 1-1/4D (137mm x 187mm x 32mm) See Table 1 200 ft (60.9 m) nominal 345 MHz Current: Standby Backlighting on and Sounder on Display 50mA 150mA: Sounder: LCD superwist alphanumeric 2 x 16. Backlit Tone Generator Integrated Circuit. (fire alarm is a loud throbbing tone; theft/panic alarm sounding is a continuous tone) FOR DETAILS ON THE LIMITATIONS OF THE ENTIRE ALARM SYSTEM. SEE THE INSTALLATION GUIDE AND SETTINGS FOR THE CONTROL PANEL INSTALLED ACCORDING TO THIS DEVICE. This device complies with Section 15 of Industry Canada's FCC and RSS210 rules. Operation is subject to the following two conditions: (1) This Device cannot cause malicious interference, and (2) This Device must accept accepted interference, including interference that may cause unwanted operation. FCC Statement & amp; INDUSTRY STATEMENT CANADA Federal Communications Commission (FCC) Section 15 Statement This equipment has been tested for FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information: This equipment generates and uses radio frequency energy and if not installed and used correctly, that is, in accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with limits for Class B computing devices in accordance with the specifications in Section 15 of the FCC Rules, which are designed to provide reasonable protection against such interference in residential installations. However, there is no guarantee that interference will not occur in certain installations. If this equipment causes interference to radio or television reception, which can be determined by turning off and turning on the equipment, users are encouraged to try to fix interference by one or more of the following steps: • If using an indoor antenna, have a quality outdoor antenna installed. • Reori orient the receiver antenna until interference is reduced or eliminated. • Move the radio or television receiver from the receiver/control. • Move the pointed antenna away from any wire running to the receiver/control. • Plug the receiver/control into a different outlet so that and the radio or television receiver is on a different branch circuit If necessary, the user should consult a dealer or experienced radio/television technician for additional advice. Users or installers may find the following booklet prepared by the Federal Communications Commission helpful: The Disruption Handbook. This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. The User will not make any changes or modifications to the equipment unless authorized by the installation instructions or user manual. Unauthorized changes or modifications may result in the user's authority to operate the operation of the Honeywell International Inc.'s LIMITED WARRANTY, acts through its Security & amp; Custom Electronics (Seller) 165 Eileen Way, Syosset, New York 11791, ensures its products comply with their own plans and specifications and are free from material defects and workmanship under normal use and service for 24 months from date stamp control on the product or, for products that do not have Ademco, for 12 months from the date of initial purchase unless installation or catalog instructions set a shorter period, in which case a shorter period will apply. 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