

iControl OpenHome™ Converge Panel Interface Module Installation Guide

Congratulations on purchasing your Panel Interface module.

The iControl Networks, Inc. OpenHome Converge Panel Interface Module (PIM) is a professional state-of-the-art device that allows you to manage your wired system and its sensors from your TouchScreen.

1 Overview

The Converge PIM is designed to allow the TouchScreen to takeover an a previously installed wireless system so that its various elements operate as part of the new overall security system.

- The v2 PIM has 2 possible installation configurations:
 - **Multi Keypad configuration** where the PIM is attached to the alarm panel or wall mounted near the alarm panel. In this configuration one PIM supports up to four supported traditional security keypads. No traditional keypad can be left directly connected to the security panel. Maximum of 4 keypads supported.
 - **One PIM per keypad configuration** where the PIM is placed in the wall behind each supported traditional security system keypad. In this configuration each keypad requires its own PIM and no traditional keypad can be left directly connected to the security panel. Maximum of 4 keypads supported.
- Supported sensors are added as zones in TouchScreen of the proper type IF they have been setup correctly in the legacy system

2 Technical Details

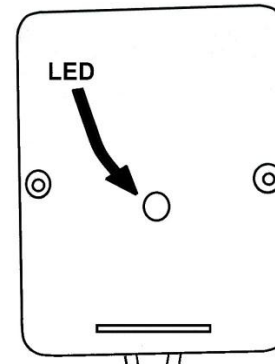
Physical Dimensions

Device	Height	Width	Depth
Printed circuit board assembly (PCBA)	1-7/8 in (4.8 cm)	2-3/4 in (7 cm)	½ in (1.3 cm)
PCBA in plastic casing	2-5/8 in (6.6 cm)	3-1/2 in (9 cm)	3/4 in (1.9 cm)

Voltage: 12VDC (power-limited)

Current: 120mA (LED lit)

LED Status



Condition	Description
On solid	Panel Interface module is in boot-up mode.
Blinking	Panel Interface module is in “locate mode” and is ready to be paired with the TouchScreen.
Off	Normal operation

3 Installation Guidelines

Important: The PIM must be installed at least 0.3 inches (0.8 cm) away from any metal structure and be used at distances of more than 8 inches (20 cm) away from a location that a user will be standing or sitting for extended periods.

The control panel system warranties are voided by the installation of the Panel Interface Module.

Note: The TouchScreen can manage up to 31 total ZigBee devices including the PIM(s) added to the system. However, the devices/zones that are managed by the TouchScreen through the PIM do not add to the device-count. For example, IF a) the control panel system is managing 48 zones, and b) the TouchScreen is managing 30 ZigBee devices plus a PIM connected to that keypad/ control panel, THEN the total number of devices managed by the TouchScreen is 79.

- Verify the system is working properly and the zones are programmed correctly.
- Identify all the existing/connected Zones are working properly; it is recommended to create a Zone list.

If the Zone numbers are not consecutive, the zone numbering order will be modified when the control panel is taken over by the TouchScreen. For example, if the zones are 1, 3, 5, 6 before activation pairing, they will become 1, 2, 3, 4 after activation pairing. Only the numbering is modified.

C. The PIM supports two separate installation configurations:

- **Multi Keypad configuration** (page 2)
A single PIM can control a maximum of four keypads
- **One PIM per keypad configuration** (page 3)
Up to four PIMs can be installed directly behind four keypads.

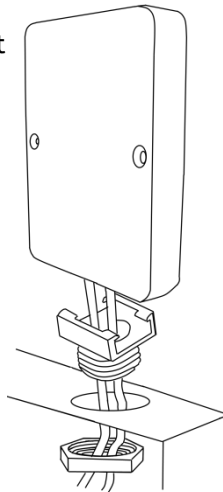
Multi Keypad configuration:

Perform the following steps **AT THE METAL CABINET** containing the control panel to install a single PIM that will control up to four keypads.

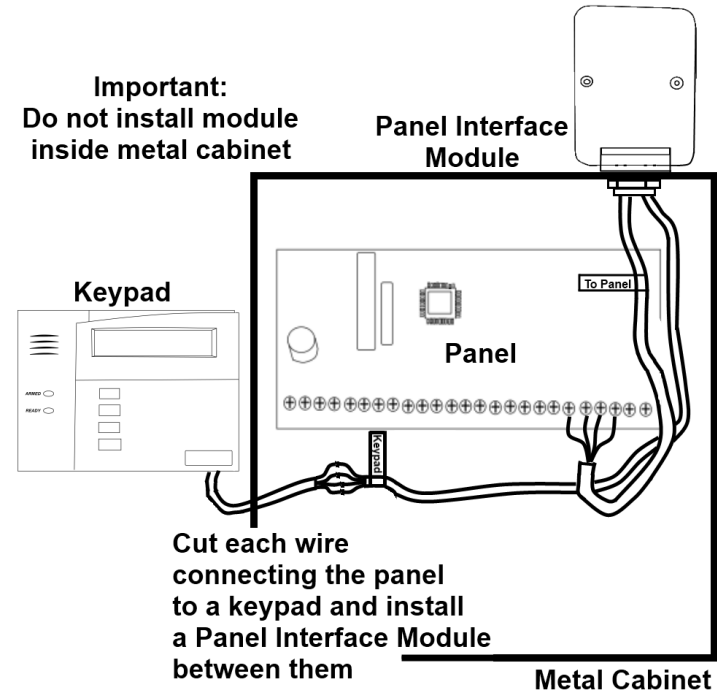
1. Remove the red and black flying leads from the battery located in the control panel.
2. Remove the A/C power of the control panel by unplugging the AC transformer from the wall outlet.
3. Install the PIM into an aperture on top of the cabinet shown in the figure to the left. Secure the PIM with the nut.

Do not install the PIM inside the metal cabinet.

4. **Cut** the wire that connects the keypad to the control panel.



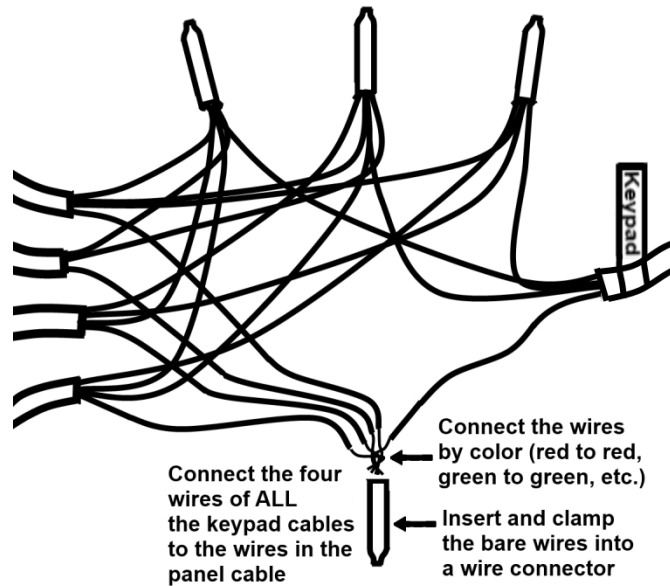
5. Install the PIM between the control panel and the keypad as shown in the following figure.



The PIM cable labeled To Keypad connects to the cables still connected to the keypads. The PIM cable labeled To Panel connects to the cable coming from the control panel.

6. Connect wires based on their colors: red, black, green, and yellow/white.
The wire colors identify their functions:
 - Yellow/white Transmit from control panel to keypad
 - Green Transmit from keypad to control panel
 - Red DC power from the control panel to the keypad
 - Black

- Cover each connection with a wire connector as shown in the following figure:



Do not leave an operational keypad directly connected to the control panel. Doing so renders the control panel inoperable.

- Reconnect power to the control panel by plugging in the A/C transformer and then re-connect the red and black flying leads to the back-up battery located in the control panel.
- Within 90 seconds of applying power to the control panel the PIM(s) are in locate mode and ready to be paired with the Touchscreen.

If the status LED on the PIM is NOT blinking three times every five seconds, it is possible that the PIM needs to be reset to factory default.

A phone line is no longer needed for the control panel. The TouchScreen uses a Broadband connection as the primary communication path, with GPRS cellular back-up as a secondary path. It is recommended to disconnect the gray 620 cord from the RJ31X jack .

- Within 90 seconds of applying power to the control panel the PIM(s) are in locate mode and ready to be paired with the Touchscreen.

One PIM per keypad configuration

Up to four PIMs can be installed directly behind four keypads. One PIM is in direct communication with the TouchScreen (alpha). The rest of the PIMs communicate with the TouchScreen through the alpha PIM.

For UL/ETL applications:

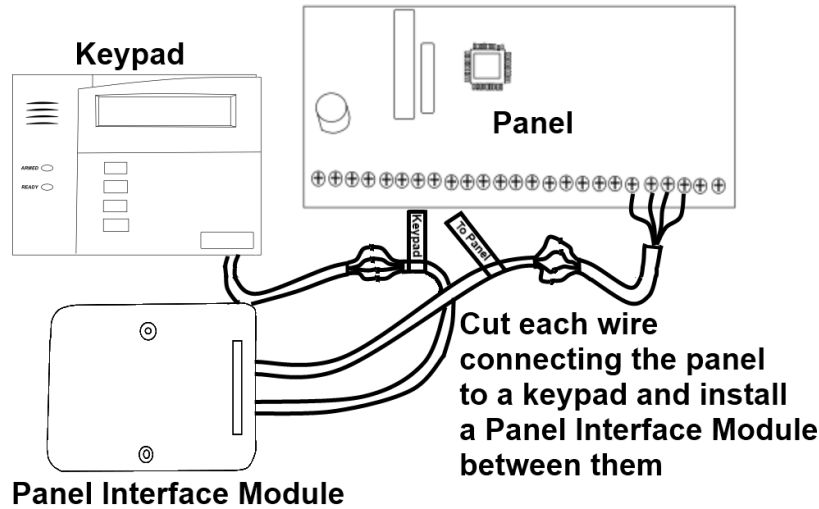
The Panel Interface module is installed between the keypad and the control panel. If it is removed from its plastic casing, then it is installed within an industry standard PVC box. This box must be designed and listed for use with non-metallic sheathed cable in accordance with Article 314 of the National Electrical Code®. All boxes must be listed to UL514C. This box is not provided as part of the installation kit. It must be provided by the installer.



Perform the following steps BEHIND EACH KEYPAD.

- Remove the red and black flying leads from the battery located in the control panel.
- Remove the A/C power of the control panel by unplugging the AC transformer from the wall outlet.
- Cut the wire that connects the keypad to the control panel.

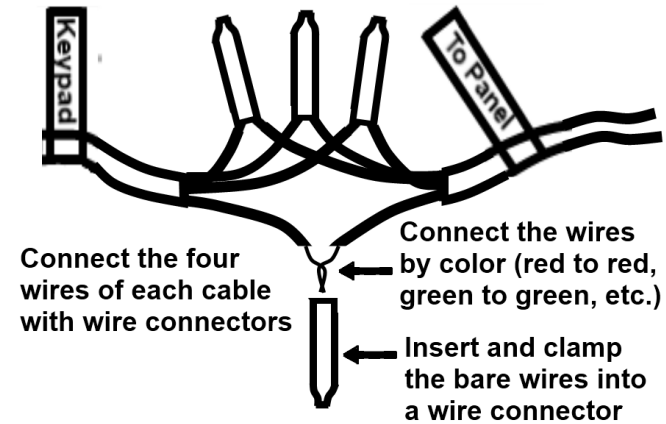
4. Install the PIM between the control panel and the keypad as shown in the following figure. Connect wires based on their colors: red, black, green, and yellow/white.



The wire colors identify their functions:

- | | |
|----------------|---|
| • Yellow/white | Transmit from control panel to keypad |
| • Green | Transmit from keypad to control panel |
| • Red | DC power from the control panel to the keypad |
| • Black | |

5. Cover each connection with a wire connector as shown in the following figure:



6. Reattach the keypad to the mounting surface.
7. Repeat the above steps for each keypad. Remember, one PIM is required for each operational keypad.



Do not leave an operational keypad directly connected to the control panel! Doing so renders the control panel inoperable.

8. Reconnect power to the control panel by plugging in the AC transformer and then re-connect the red and black flying leads to the back-up battery located in the control panel.
9. Within 90 seconds of applying power to the control panel the PIM(s) are in locate mode and ready to be paired with the Touchscreen.

4 Adding a Panel Interface Module

Typically the PIM is added to the TouchScreen during the initial Activation as described in the Home Installation Guide. The following procedure is used when a PIM is added after Activation.

- A. Before beginning this process, record the Zone names assigned to each zone and their zone numbers.
- B. From the TouchScreen Home screen, tap the **Settings** app.
- C. When the TouchScreen Keypad screen appears, enter the Installer keypad code (this code is the same for all TouchScreens installed by your company).
- D. When the Technician keyboard pad appears, enter your Technician ID and select **Done**. The Technician Settings menu appears.
- E. Select **Home Devices**. The Home Devices menu is displayed.
- F. Tap **Panel Interface > Add Panel Interface Boards**. The Locating Key Pads screen is displayed.
The PIM can be located only within the first 90 seconds of being powered up. If keypad screen should display “Scanning for Network.”
If it displays “No Network Found”, then press any button on the keypad to restart the process or cycle power to the PIM.
Remember that a zone managed by the control panel might have multiple sensors within that zone. When these zones are paired with the TouchScreen, they will be located as a single sensor. For example, a wired zone that has five window sensors (in series) will be managed by the TouchScreen as if it were a single sensor.

- G. Tap **Next**. The TouchScreen scans the premises for PIM(s) that can be paired, which must meet the following requirements:
 - Defaulted
 - Not currently paired with another TouchScreen
 - In Search Mode (LED blinking 3 times every 5 seconds)
- H. Follow the TouchScreen prompts to complete the add process and pair the PIM with the TouchScreen. When the TouchScreen asks that you trip to pair the PIM, press any number on the keypad.
If ALL available installed PIMs are not found, select Done to return to the Technician Settings menu without adding.
- I. When a panel is paired with the TouchScreen, any LEGACY key fobs previously paired with the system are deleted/disabled. They will not be used with new system.
- J. When *all* the PIMs are located and paired, select **Next**. The TouchScreen begins locating the zones connected to the control panel. This operation can take a few minutes. When all the zones are found, an icon is displayed for each zone in the Configure Panel Interface Sensors screen.
Note: When zones connected to the control panel are found by the TouchScreen, it automatically configures their functionality (for example, Entry/Exit, Perimeter, etc.) and sensor type (for example, Door/Window, Motion Detector, etc.) based on various criteria. Section 11 Zone Auto-Configuration describes the mapping of sensors that are auto-configured by the TouchScreen. It is necessary to review the newly added sensors to determine whether they require manual configuration.
- K. Tap a Zone icon to configure the following:
 - o Display icon (such as a window or door icon)
 - o Zone Function (Entry/Exit, Perimeter, or 24-Hour Inform)
 - o Zone Label (a user-defined identifier for the zone)
- L. After all the zones are configured, tap **Next**.

Additional sensors can be added and managed from the TouchScreen. Additional sensors cannot be added to the control panel after a PIM has been paired with the TouchScreen.



Congratulations!

You have successfully added your PIMs. Your legacy system keypad can now be used to enter keypad codes to arm/disarm the iControl OpenHome Converge system as well as turn off zones (bypass zones). Additionally, the legacy keypad information screen displays messages from the iControl system.

5 Managing the System from the Keypad

The following operations can still be performed from the control panel keypad(s):

- Arm Stay
- Arm Away
- Zone Bypass

No other keypad features are supported. Panic buttons, On/Off, and Communications Test can no longer be performed from the keypad after the control panel and zones have been paired with the TouchScreen. These functions are now performed from the TouchScreen.

Arming the System Zones

To use the legacy keypad to Arm the system:

- A.** Enter your 4 -digit keypad code plus the desired arming state (below).
- B.** Press **Away** to arm the system in Arm Away mode (or **2**, if there is no dedicated key).
Press **Stay** to arm the system in Arm Stay mode (or **3**, if there is no dedicated key).

Press **Instant** to arm the system in Arm Night mode (or **7**, if there is no dedicated key).

Disarming the System Zones

To use the legacy keypad to Disarm the system:

- A.** Enter your user code.
- B.** Press **1** to disarm the system.

Bypassing Zones

To use the legacy keypad to bypass a zone:

- A.** Enter your user code.
- B.** Press **Bypass** (or **6**, if there is no dedicated bypass key).
- C.** Press the two-digit zone number.

6 Deleting a Panel Interface Module

Deleting a PIM removes all associations with the control panel from the TouchScreen.

To delete a PIM from the TouchScreen:

- A.** From the TouchScreen Home screen, select the Settings app.
- B.** When the TouchScreen Keypad screen appears, enter the Installer keypad code (this code is the same for all TouchScreens installed by your company).
- C.** When the Technician keyboard pad appears, enter your Technician ID and select **Done**. The Technician Settings menu is displayed.
- D.** Select **Home Devices**. The Home Devices menu is displayed.
- E.** Tap **Panel Interface > Delete Panel Interface Boards**. The Remove Panel Interface Boards and Zones screen is displayed.
- F.** Tap **Next**. A confirmation dialog is displayed that says “Are you sure you want to remove all PIMs and zones?”

G. Tap Yes.

The all the PIMs added to the TouchScreen are deleted. Additionally, all zones connected to the control panel are also removed from the iControl TouchScreen.

This process might take up to 15 minutes depending on how many zones are connected to the control panel. The zones that were previously connected to the control panel are still programmed. If a PIM is re-paired with the TouchScreen, it finds the zones just as it did before.

7 Swapping a Panel Interface Module with a New One

If a keypad does not respond to system changes (such as, zone status, keypad strokes), there is a possibility that the PIM is defective. If a PIM has been found to be defective, you must swap it out with a functional one.

- A.** Review the zone numbering and the sensors connected through non-functioning control panel.
 - B.** Delete all installed PIMs from the system using the procedure Panel Interface from the TouchScreen as described in Section 6, *Deleting a Panel Interface Module*.
 - C.** Power down the control panel:
 1. Remove the red and black flying leads from the battery located with the Vista control panel.
 2. Remove the AC power.
- Note:** It is important that steps 1 and 2 are performed in this order.
- D.** Install the new PIM as described in Section 3, *Installation Guidelines*.
 - E.** Power up the control panel:
 1. Return A/C power and then the red and black flying leads from the battery located in the control panel.

2. Within 2 minutes of applying power to the control panel, the PIM(s) are in search mode and ready to be paired with the Touchscreen.

If the LED on a PIM does not blink three times each five seconds, there is a possibility that the PIM must be reset to factory default. See section 4.

- F.** Add the PIM(s) to the TouchScreen as described in Section 4.
- G.** Test the sensors connected through the control panel to ensure the TouchScreen recognizes when they are defaulted and that the connected zones can be bypassed using the keypad.

8 Setting the Panel Interface Module to Factory Default

Perform the following steps within 10 minutes of power-up to set the PIM to factory default. Do not press any other keys on the keypad prior to the defaulting process.

- A.** From the legacy keypad, press and hold the [1] and [*] keys at the same time momentarily. The legacy keypad beeps once. Otherwise, repeat this step.

For all these steps, it is important to press the keys at the same time. If at any time during this procedure, the keypad beeps twice or chimes, you must disconnect the battery power from the control panel and start this process from the beginning.
- B.** Press and hold the [3] and [#] keys at the same time momentarily. The legacy keypad beeps once.
- C.** Press and hold the [1] and [*] keys at the same time momentarily. The legacy keypad beeps once.
- D.** Press and hold the [3] and [#] keys at the same time momentarily. The legacy keypad beeps once.
- E.** Power cycle the control panel.

Within 2 minutes of power cycling, a 6160 keypad displays *iControl OpenHome* and the LED on the Panel Interface module flashes 3 times every 5 seconds. The keypad displays *Scanning For Network*. Within approximately 90 seconds, if the PIM has been defaulted, the keypad displays *No Network*.

9 Troubleshooting

Cannot Turn Off Sounds for a Single Keypad

If the Touch Screen is set to play a sound for a zone event, then all the wired keypads will chime for that zone event. If the TouchScreen is set to silent for a zone event, no keypads will chime for that zone event.

Incorrect Zone Mapping

If a zone is incorrectly configured in the control panel, it might not be correctly configured when added to the TouchScreen. The zone needs to be reconfigured on the TouchScreen after it has been added.

Defective PIM

If a keypad is unresponsive (either to user input or zone/sensor changes) the PIM is defective.

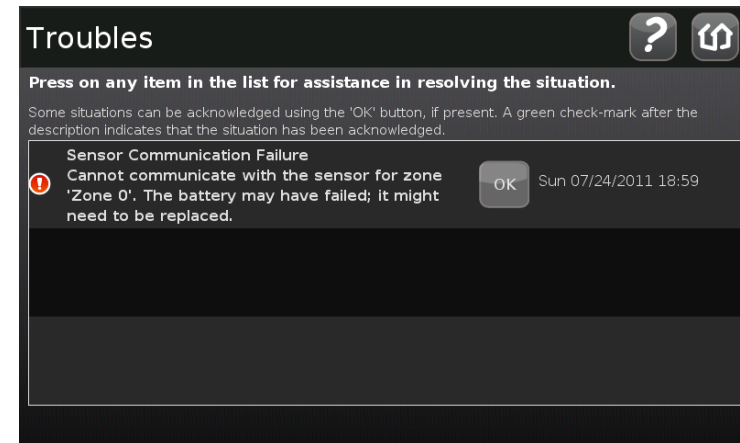
Delete all the PIMs from the TouchScreen and replace it. Add the PIM(s) to the TouchScreen.

Cannot pair keypad

- Unsupported firmware version on the control panel
- Unsupported keypad

TouchScreen Reports

The TouchScreen will report on troubles communicating with the PIM.



10 Supported Control Panels

Note: See the following subsections for supported devices for the control panels

The following Ademco control panels are supported:

- **Vista 15P v3.0 or greater** - To verify, open the panel and ensure the chip is labeled WA15Pxx-N.n where N >= 3.
- **Vista 20P v3.0 or greater** To verify, open the panel and ensure the chip is labeled WA20Pxxx-N.n where N >= 3.

The version of firmware on an control panel cannot be modified.

The following DSC control panels are supported:

- PC1616,
- PC1832
- PC1864
- PC580 (Power 432)
- PC1555 Classic (Power 632)
- PC1555MX (Power 632)
- PC5010 (Power832)
- PC5020 (Power864)

Ademco Panels: Supported Keypads

The following control panel keypads are supported for both types of Honeywell keypads:

- Honeywell 6148 Fixed-English Keypad
 - Supports fixed-English LCD display
 - 12 keys
 - 2 status LEDs(Armed and Ready)
- Honeywell 6150 Keypad
 - Supports fixed-text display
 - 16 keys
 - 2 status LEDs(Armed and Ready)
- Honeywell 6160 Alpha Display Keypad
 - Supports 32-character message display
 - 16 keys, including 4 function keys
 - 2 status LEDs (Armed and Ready)
- Honeywell 6160V Talking Alpha Display Keypad
 - Supports 32-character message display
 - 16 keys, including 4 function keys
 - 3 status LEDs (Armed, Ready, and Message)
 - Record and Playback voice messages are not supported
 - 6160RF not supported

Keypads should say “Honeywell” on cover; however, they are sometimes re-branded and a decal is placed over the “Honeywell” logo

Ademco Vista System: Auxiliary Device Current Draw Worksheet

The current draw for the Honeywell Vista 15P and 20P is a maximum of 600mA. Use the following worksheet to calculate the total current draw from the system. If the devices connected to the Vista 15P or 20P exceed the maximum draw threshold, you need to add an auxiliary power supply to the system.

Honeywell Vista Auxiliary Device Current Draw Worksheet

Device	Current	No. of Devices	TOTAL CURRENT
Panel Interface module	120mA		
Hardwired Motion Detectors*	25-30mA* (approx.)		
4219 Zone Expander	30mA		
4229 Zone Expander/Relay Unit	100mA		
Hardwired Glassbreak Detectors*	25mA* (approx.)		
Hardwired Smoke Detectors*	5mA* (standby) 130mA* (alarm)		
5881/5882 RF Wireless Receiver	60mA		
5883 RF Wireless Transceiver	80mA		
6148 Fixed-English Keypad	55mA**	NOT SUPPORTED	
6150 Keypad	70mA		
6150V Keypad		NOT SUPPORTED	
6160 Alpha Display Keypad	150mA **		
6160V Alpha Display Voice Keypad	190mA **	NOT SUPPORTED	
6270 TouchCenter keypad		NOT SUPPORTED	
8132/8142 Touchscreen keypad		NOT SUPPORTED	
(Current available from Aux. terminals = 600mA max.)			
TOTAL=			

* If using hardwire devices such as smoke detector, glassbreak, and/or motion detectors, refer to the manufacture specifications for that particular unit's current draw. The above current calculations are approximate.

** Values are for devices in alarm; alarm for a keypad means armed with backlighting on and sounder active.

DSC Panels: Supported Keypads

This section lists the control panels currently supported by the PIM and the supported associated keypads.

PC1616, PC1832, PC1864

The following keypads are supported for these DSC panel types:

Keypad	Type	Keypad	Type
PC5532Z	LED	PK5500 RFK5500	ICON
		PK5501 RFK5501	LCD
		PK5508 RFK5508	LED
		PK5516 RFK5516	LED

PC580 (Power 432)

The following keypads are supported for this DSC panel type:

Keypad	Type	Keypad	Type	Keypad	Type
LCD5500Z	LCD	PC5508Z	LED	PK5500 RFK5500	ICON
		PC5516Z	LED	PK5501 RFK5501	LCD
		PC5532Z	LED	PK5508 RFK5508	LED
				PK5516 RFK5516	LED

PC1555 Classic (Power 632)

The following keypads are supported for this DSC panel type:

Keypad	Type	Keypad	Type
LCD5500Z	LCD	PC5508Z	LED
		PC5516Z	LED
		PC5532Z	LED

PC1555MX (Power 632)

The following keypads are supported for this DSC panel type:

Keypad	Type	Keypad	Type	Keypad	Type
LCD5500Z	LCD	PC5508Z	LED	PK5500 RFK5500	ICON
LCD5501Z	LCD	PC5516Z	LED	PK5501 RFK5501	LCD
LCD5501Z32	ICON	PC5532Z	LED	PK5508 RFK5508	LED
				PK5516 RFK5516	LED

PC5010 (Power832)

The following keypads are supported for this DSC panel type:

Keypad	Type	Keypad	Type	Keypad	Type
LCD5500Z	LCD	PC5508Z	LED	PK5500 RFK5500	ICON
LCD5501Z	LCD	PC5516Z	LED	PK5501 RFK5501	LCD
LCD5501Z32	ICON	PC5532Z	LED	PK5508 RFK5508	LED
				PK5516 RFK5516	LED

PC5020 (Power864)

The following keypads are supported for this DSC panel type:

Keypad	Type	Keypad	Type	Keypad	Type
LCD5500Z	LCD	PC5508Z	LED	PK5500 RFK5500	ICON
LCD5501Z	LCD	PC5516Z	LED	PK5501 RFK5501	LCD
LCD5501Z32	ICON	PC5532Z	LED	PK5508 RFK5508	LED
				PK5516 RFK5516	LED

11 Zone Auto-Configuration

During the “Locating Sensor” step, the TouchScreen identifies the zones monitored by the control panel and maps them as specific sensor types and functionality types. After pairing the sensors with the TouchScreen, ensure that the sensors and zones have been properly mapped. A zone mapping worksheet is available separately.

Ademco: Control Panel Zone Types Auto-Configured by TouchScreen

Zone Type Code	Vista Zone Type	Mapped to TouchScreen	
		Zone Type	Sensor Type
00	Zone Not Used (bypassed)	Ignored	
01	Entry/Exit Burglary Zone	Entry/Exit Zone	Door
02			
03	Perimeter Burglary	Perimeter	Window
04	Interior Follower	Interior Follower	Motion Detector
05	Trouble by Day/Alarm by Night Provides an instant alarm if faulted when armed in the Away, Stay, Night-Stay, Instant or Maximum (night) modes. During the disarmed state (day), the system will provide a latched trouble sounding from the keypad	Entry/Exit Zone Type	Door
06	24-hour Silent Alarm Usually assigned to a zone containing an emergency button. Sends a report to the central station but provides no keypad display or sounding.	Panic	Door

Ademco: Control Panel Zone Types Auto-Configured by TouchScreen

Zone Type Code	Vista Zone Type	Mapped to TouchScreen	
		Zone Type	Sensor Type
07	24-hour Audible Alarm Assign to a zone that has an emergency button. Sends a report to the central station, and provides an alarm sound at the keypad, and an audible external alarm.	Panic	Door
08	24-hour Auxiliary Alarm Assign to a zone containing an emergency button, or to a zone containing monitoring devices such as water or temperature sensors.	Audible 24 Hour	Water Sensor
09	Supervised Fire Provides a fire alarm on short circuit and a trouble condition on open circuit. A fire alarm produces a pulsing bell output.	Fire 24 Hour	Smoke Alarm
10	Interior w/Delay Provides entry delay if tripped when the panel is armed in the Away mode.	Interior Follower	Motion Detector
12	Monitor Zone A dynamic monitor of a zone fault/trouble (not alarm).	24 Hour Inform	Door
14	24 Hour Carbon Monoxide Monitor	Entry/Exit Zone Type	Door

Ademco: Control Panel Zone Types Auto-Configured by TouchScreen

Zone Type Code	Vista Zone Type	Mapped to TouchScreen	
		Zone Type	Sensor Type
16	Fire w/Verification Provides a fire alarm when zone is shorted, but only after alarm verified. • System verifies alarm by resetting zones for 12 seconds after short is detected. A subsequent short circuit within 90 seconds triggers fire alarm.	Fire 24 Hour	Smoke Alarm
20	Arm-Stay Arms the system in Stay mode when the zone is activated.	Entry/Exit Zone Type	Door
21	Arm-Away Arms the system in Away mode when the zone is activated.	Entry/Exit Zone Type	Door
22	Disarm Disarms the system when the zone is activated.	Entry/Exit Zone Type	Door
23	No Alarm Response Can be used on a zone when an output relay action is desired, but with no accompanying alarm.	Entry/Exit Zone Type	Door
24	Silent Burglary	Entry/Exit Zone	Door
77	Key Switch	Ignored	
81	AAV Monitor		
90	Configurable		
91			
92			
93			

DSC: Control Panel Zone Types Auto-Configured by TouchScreen

Zone Type Code	Vista Zone Type	Mapped to TouchScreen	
		Zone Type	Sensor Type
00	Zone Not Used (bypassed)	Ignored	
01			
02			
03			
04			
05			
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iControl Networks
Model: 4000001604
FCC ID Y6Q-4000001604
IC: 9454A-4000001604

Compliances

FCC Notice

This device has been designed, constructed, and tested for compliance with FCC Rules that regulate intentional and unintentional radiators. As the user of this device, you are not permitted to make any alterations or modifications to this equipment or to use it in any way that is inconsistent with the information described in this quick-start guide, without the express written permission of SMC Networks. Doing so will void your warranty to operate this equipment.

The exterior of the device should be labeled with the following instructions “Zigbee Panel Interface module is integrated with “*Contains FCC ID: Y6Q-SMCTB01Z*” and “*Contains IC ID 9454A-SMCTB01Z*”.

This device complies with Part 15 of the FCC rules. Operation of this device is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

The “IC” designation preceding the radio certification number indicates that this device complies with the Industry of Canada specifications. Limitations of Security Products

Security products and alarm systems do not offer guaranteed protection against burglary, fire, or other emergencies. They may fail to warn for diverse reasons, including (but not limited to): power failure, dead batteries, improper installation, coverage, coverage areas overlooked during installation, defeat by technically sophisticated intruders, component failure, or inadequate maintenance. Alarm systems should be checked weekly to ensure that all devices are working properly.

AN ALARM SYSTEM IS NOT A SUBSTITUTE FOR INSURANCE



Panel Interface Module Installation Guide

