

INSTALLATION MANUAL

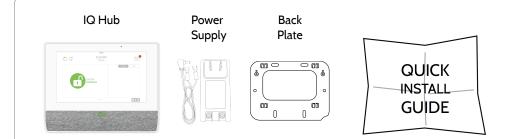


The IQ Hub is a 7" (~17.8 cm) touchscreen built with an Android operating system, providing full security and smart home functionality in an easy to use interface.

IQ Hub Software Version 3.1.0 INTRODUCTION



INCLUDED IN BOX



ABOUT THIS GUIDE

This document outlines the basic hardware specifications and software directions to install and customize the IQ Hub. Note that the information presented is not comprehensive, but is specifically dedicated to those menus, features, and systems accessible solely to those with the proper installation code. Features accessible to users and installers alike are outlined in the IQ Hub User Guide. The information contained is confidential and proprietary, and is solely owned by Qolsys Inc. Any reproduction, modification or distribution without permission is strictly prohibited.

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SUPPORT

QUESTIONS?

Contact us at techsupport@golsys.com

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IQ HUB OVERVIEW

Warning: This Product should be installed in accordance with the National Fire Alarm Code, ANSI/NFPA 72, (National Fire Protection Association, Batterymarch Park,Quincy, MA 02269) and with National Electric Code, ANSI/NFPA 70. Printed information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this Product. In Canada the product shall be installed in accordance with the Standard for the Installation of Residential Fire Warning Systems, CAN/ULC-S540.

Warning: For Canadian installations this Product and all sensors associated with it (collectively, the "System") should be tested once a week. The test shall be performed also with primary DC power de-energized. For recommended smoke detectors maintenance instructions refer to user manual associated with compatible Qolsys model QS5110-P840 smoke detector.

IQ HUB OVERVIEW



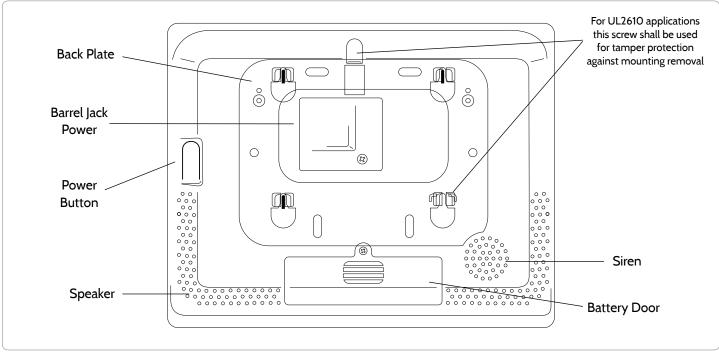
EXTERIOR FRONT



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EXTERIOR BACK



*CAUTION The battery should NEVER be disconnected without following proper power-down procedures Failure to comply may result in data corruption, panel failure, and a void of the manufacturer's warranty



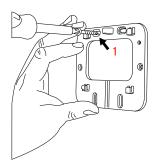
INSTALLING THE IQ HUB

INSTALLING THE IQ HUB



WALL MOUNT

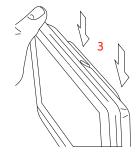
Note: For UL/ULC Commercial Burg installations (UL2610/ULC-S304 Security Level II compliant) use only wall mount option. This product when installed as per these instructions does not present the risk of fire, electric shock, or injury to persons.

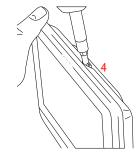


- 1. Mount the bracket to the wall using appropriate hardware ensuring it is level.
- A screw shall be used in all 4 screws holes for UL2610 installations

2. Insert the barrel from the power supply into the barrel

jack in the back of the panel.



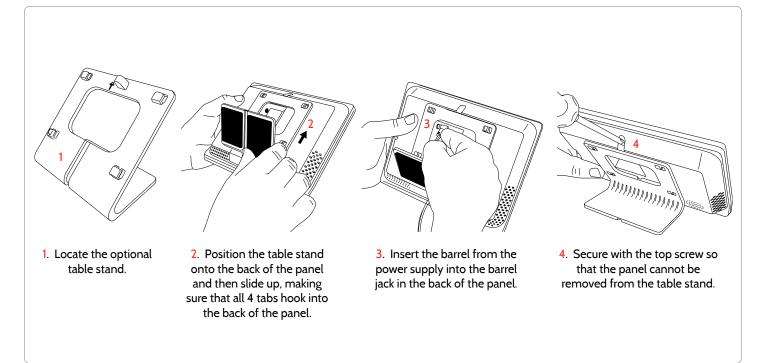


- 3. Position the panel onto the backplate and then slide down, making sure that all 4 tabs hook into the back of the panel.
- 4. Secure with the top screw so that the panel cannot be removed from the backplate.

INSTALLING THE IQ HUB



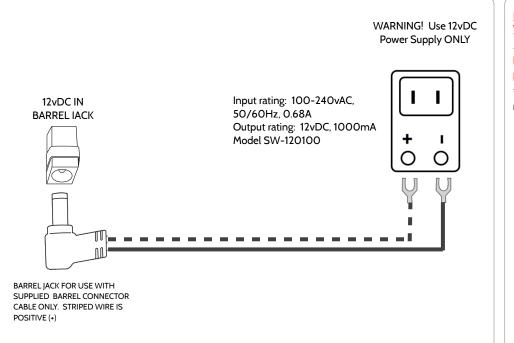
TABLE STAND (OPTIONAL)



INSTALLING THE IQ HUB



WIRING DIAGRAM



NOTES

IMPORTANT IF USING CUSTOM LENGTH WIRE:

- 12vDC Transformer: Use 18AWG wire no longer than 100ft to ensure sufficient power is received at the panel.

* The minimum permissible wire size shall not be smaller than 22 AWG

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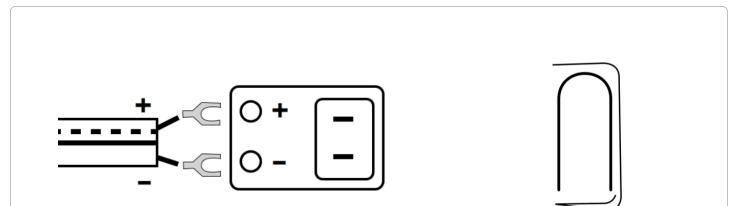
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Connect power supply. WARNING! Use a 12vDC Power Supply ONLY

If using the provided cable, the "striped" wire is (+) Note: Power supply shall be located within same room as control unit Press and hold the power button on the back right side of the panel for 3 seconds to power up.



POWERING THE PANEL







USER INTERFACE

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USER INTERFACE

HOME SCREEN OVERVIEW

The home screen is divided into three sections. The header shows the date & time, today's weather, message center and the Settings tray. The Primary interface shows arming options and sensor status & partition select. The footer shows panic options and additional pages.





ALERTS/ALARMS This is where you will find Panel Alerts/Alarms notifications MESSAGES This is where you will find messages from the Security Provider GOLSYS CONFIDENTIAL AND PROPRIETARY PAGE 14 OF 170

video tutorials and FAQ's

CONTACT US

VIDEO TUTORIALS

H 71° I 45°

MESSAGE CENTER

USER INTERFACE



11:18 AM 09/15/16

This is where you will find the Security Provider's Contact Information

This is where you will find Video Tutorials to help with common questions

The header contains the the pull down settings tray, the weather icon, time/date and a message icon in the upper right portion of the screen where you will find Security Provider messages and contact info, alerts,



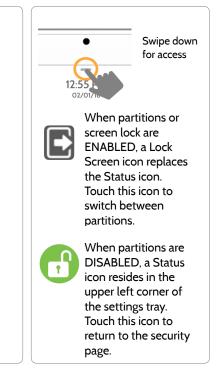
USER INTERFACE

SETTINGS TRAY

To access the Settings tray swipe down on the bar at the top of the screen. The Settings tray has quick access to system, battery, Wi-Fi, Bluetooth & cellular status as well as volume control, brightness, a lock screen icon and other quick settings.



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When the "Screen Lock" or "Partitions" setting are enabled, a lock screen will be presented once the panel has been woken

from either a touch on the screen or pressing the wake/sleep button on the side of the panel. This prevents unauthorized access to the panel and/or one partition from accessing another as well as managing permissions to "Advanced Settings".

PROGRAMMING

SCREEN LOCK

Control

PROGRAMMING SETTINGS **FIND IT** The Settings page allows quick access to various simple 138 PM \square * °F E 2 2 2 2 2 features & settings that do not require the protection of a Swipe down Dealer, Installer or Master code to be changed. for access ◆ ♦ 6 + 6 SETTINGS Setting Description Display Adjust brightness, font size & 12/24 hour time Weather Temperature Toggle between Fahrenheit and Celsius View the "Current Status" of security sensors: Zone #, Name, Status Status (Open, Close, Active, Idle, Tamper, Failure), Battery and sensor History. Also view "Alarms" and "History" for security sensors globally View the "Current Status" of Z-Wave devices: Name, Type, Status (Normal, 7-Wave[™] Device Status Failure), and Battery. Also view "Alerts" and "History" for Z-Wave globally Shows Z-Wave devices that are learned into the panel but that are not part Other Z-Wave Devices of the main user interface (Lights, Locks, Thermostats & Garage Doors)



SETTINGS

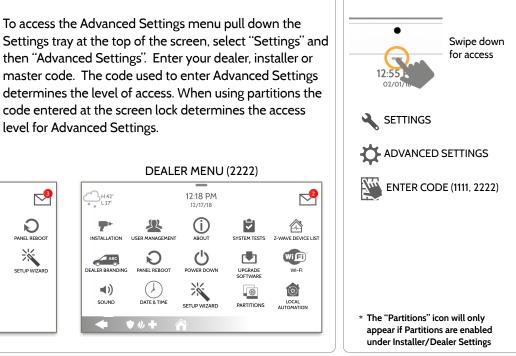
Setting	Description			
EU Events	Display events as required for EN Grade 2. NOTE: This icon will only appear when the "En Grade 2" setting is Enabled.			
	Add, Edit or mange local lighting automation rules. These rules are separate from any cloud based rules that may be set through Alarm.com. Examples of possible rules are as follows:			
	- Night: Turns light on at 7pm and off at 6am			
Automation	- Evening: Turns light on at 7pm and off at 11pm			
	 Front Door: Turns light on for 15mins when Front Door opens between 5pm and 7am (must have a sensor with the default quick name "Front Door" added in the panel) 			
	 Doorbell: Turns light on between 5pm and 7am for 15 mins when Doorbell is activated (must have a sensor with the default quick name "Doorbell" added in the panel) 			
Activity Monitor	Activity Monitor allows access to disarm sensors that are programmed as 24 hours zones, such as Sensor Groups 8, 9 & 25. A valid Master, User or Guest code is required to control 24 hour activity sensors. 2 options are provided:			
	- Quick Access: 300 second temporary access			
	 Deactivate: Disarms 24 hour sensors until they are re-activated manually 			
License	Qolsys End User License Agreement			
Advanced Settings	Access advanced settings & programming. A valid Dealer (default 2222), Installer (default 1111) or Ma Code (default 1234) is required			
Smart Energy Optimizer	Shift energy usage to off-peak hours (thermostats) and reduce energy usage during on-peak hours			

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ADVANCED SETTINGS

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INSTALLER MENU (1111)

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DEALER MENU (2222)

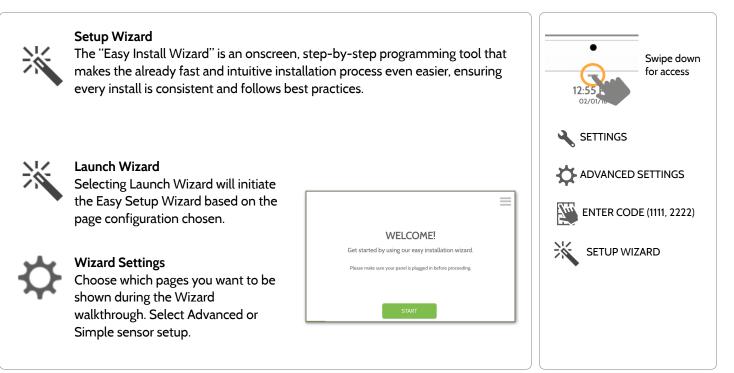
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level for Advanced Settings.



SETUP WIZARD

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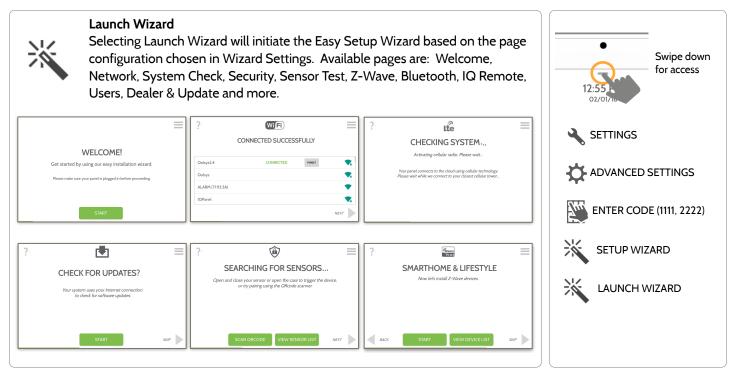


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LAUNCH WIZARD

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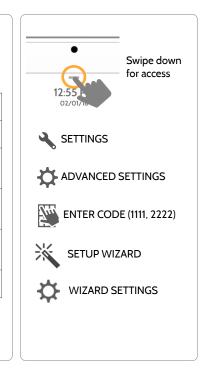
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WIZARD SETTINGS

Wizard Settings

Choose which pages you want to be shown during the Wizard walkthrough. Select Advanced or Simple sensor setup

Setting	Default	Description
Update	Enabled	Show the option to check for software updates in the Setup Wizard
Security	Enabled	Show the option to add and edit security sensors in the Setup Wizard
Security Sensor Setup Format	Advanced	Determines whether the Security page of the Setup Wizard shows Advanced Sensor pairing (PRO) or Simple Sensor pairing (DIY)
Z-Wave	Enabled	Show the option to include and edit Z-Wave devices in the Setup Wizard
Bluetooth	Enabled	Show the option to pair Bluetooth devices in the Setup Wizard
	1	



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PROGRAMMING

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PROGRAMMING

WIZARD SETTINGS

Setting	Default	Description	•
Users	Enabled	Show the option to add users in the Setup Wizard	Swipe dowr for access
Dealer	Enabled	Show the option to add and edit Dealer Contact Info in the Setup Wizard	12:55 02/01/16
IQ Remote	Enabled	Show the option to pair IQ Remotes in the Setup Wizard	SETTINGS
Sensor Signal Test	Enabled	Activate the sensor test as part of the Setup Wizard	ADVANCED SETTINGS
Download Mobile App	Enabled	Show the option to scan a QR code and download the Alarm.com app	ENTER CODE (1111, 2222)
	•		SETUP WIZARD
			WIZARD SETTINGS



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INSTALLATION

PROGRAMMING

If Dealer Contact info is not previously filled out or pushed from Alarm.com, a pop up is generated when accessing the "Installation" icon, requiring that dealer contact information Swipe down to be entered. This information is used to populate the "Contact Us" tab in the Message for access Center. NOTE: Company Name and Company Phone Number are required and must be filled out to continue with panel programming. 5:50 PM H₀° SETTINGS LO° 06/02/17 Dealer contact information has not been populated ADVANCED SETTINGS for this panel.Please enter to proceed. Company Name INSTALLATIO ANEL REBOOT ENTER CODE (1111, 2222) **Company Phone Number** INSTALLATION **Company Website** POWER DOW Installation location ZIP Code

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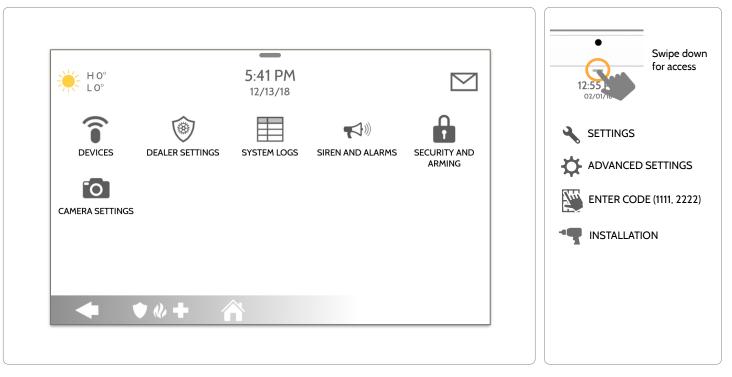






INSTALLATION

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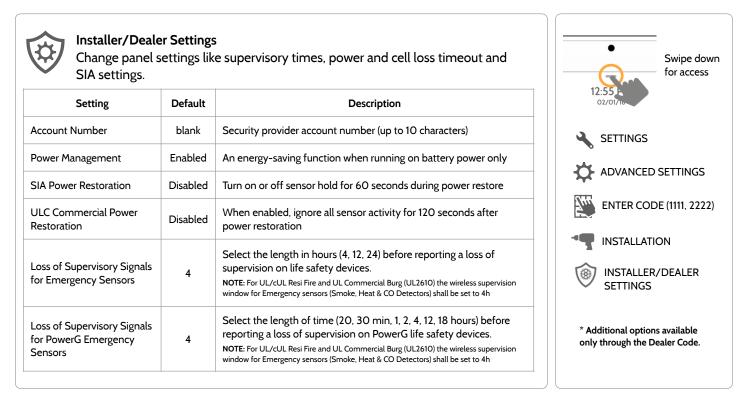


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INSTALLER/DEALER SETTINGS

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Setting	Default	Description
Loss of Supervisory Signals for Z- Wave	4	Select the length in hours (4, 24) before reporting a loss of supervision on Z-Wave Sirens.
Loss of Supervisory Signals for Non Emergency Sensors	24	Select the length in hours (4, 12, 24) before reporting a loss of supervision on security devices.
		NOTE: For UL/cUL Resi Fire and UL Commercial Burg (UL2610) the wireless supervision window for Non-Emergency sensors (all intrusion sensors) shall be set to 4h
Loss of Supervisory Signals for PowerG Non Emergency Sensors	24	Select the length of time (20, 30 min, 1, 2, 4, 12, 18 hours) before reporting a loss of supervision on PowerG security devices.
		NOTE: For UL/cUL Resi Fire and UL Commercial Burg (UL2610) the wireless supervision window for Non-Emergency sensors (all intrusion sensors) shall be set to 4h
Loss of Cell Signal Timeout	30	Select the length in minutes (10-120) before reporting a loss in cellular signal.
-		NOTE: For UL Commercial Burg (UL2610) the cell supervision is hardcoded to 200s
Communication Test	Monthly	Choose Never, Daily, Weekly or Monthly when enabling the communication test.
Communication Test Start Time	Randomized	Select the time of day that the panel will send its Communication Test. If no time is selected the time will automatically be randomized.





Setting	Default	Description
SIA Limits NOTE: For UL resi burg set entry delay to 45 sec and exit delay to max 120 sec. For UL Commercial Burg (UL2610) maximum entry and exit delay should not exceed 60 sec. NOTE: For ULC Security Level I (resi burg) set entry delay to 180 sec. For ULC Security Level II (commercial burg) set entry delay to 60 sec and exit delay to 45 sec max.	Enabled	When enabled , the range for entry and exit delays is as follows: -Entry delay: 30-240 seconds, Exit Delay: 45-254 seconds When disabled , the range for entry and exit delays are as follows: -Entry delay: 5 to 240 seconds, Exit delay: 5 to 254 seconds When enabled the range for Dialer Delay is: 15 to 45 seconds When disabled the range for Dialer Delay is: 0 to 254 seconds
EN Grade 2	Disabled	 The setting enables EN Grade 2 compliance on the Panel. When Enabled, the following behaviors and/or settings are changed automatically: Entry Procedure (EU) - follows entry procedures and alarm transmission delays specified by EN 50131 Disables the "Auto Bypass" setting so that the Panel will protest arming when sensor and panel trouble conditions are present (i.e. Open, Tamper, Low Battery, etc) Trouble condition alerts can not be acknowledged until the condition is resolved Trouble beeps are expanded to include fault indications required by EN 50131 "Screen Lock" setting is enabled automatically. Screen will lock 30 seconds after Disarming A new icon called "EU Events" is added to the "Settings" page which records mandatory history events specified by EN 50131. "Loss of Supervisory Signals for PowerG Non-Emergency Sensors" is set to 2 hours by default. "LED Indicator" setting is Disabled automatically. "Partitions" setting is not available. "Dealer or Installer Access Requires User Permission" setting is Enabled automatically.



Setting	Default	Description
EU Event Swinger Shutdown Count	3	Determines the number of times a particular event will record to "EU Events" log before shutdown. The count (3-10) will reset after and arm or disarm event. NOTE: This setting is greyed out and not selectable unless EN Grade 2 is Enabled.
Favorite Languages	English/Español	Set the Panel's language toggle to your favorite 2 languages. Choose from English (United States), Français (Canada), Español (Estados Unidos), Italiano (Italia), Nederlands (Nederland), Norsk bokmål (Norge), Svenska (Sverige) and Íslenska (Ísland), Deutsch (Deutschland), Magyar, (Magyarország), Dansk (Danmark), Românā (România), Portuguesa (Portugal), Polskie (Polska), Suomalainen (Suomi), Français (France), Español (España).
LED Indicator	Enabled	Manually Enable/Disable the LED Status Light on the panel. NOTE: This setting will automatically be set to Disabled when EN Grade 2 is Enabled.
6 Digit User Code	Disabled	This is a global setting for all codes used on the panel and changes the input from 4 digits to 6 digits. When enabled, a "OO" will be appended to all existing 4 digit codes
Commercial Sensor and Device Names	Disabled	Enabling this features changes the sensor name vocabulary from residential naming to commercial naming.



Setting	Default	Description
Wellness Support	Disabled	When Enabled, Auxiliary Pendants learned into Group 6 behave like a traditional PERS pendant. The system generates a signal to Alarm.com but does not generate a loud local alarm that needs to be disarmed between button presses. NOTE: This feature can not be enabled if Partitions are enabled.
WI-FI Warning Messages	Enabled	When enabled the panel will display a pop up when entering "Settings" letting the end user know that Wi-Fi has been disconnected.
Partitions	Disabled	Create up to 4 partitions by enabling this feature. NOTE: This setting will automatically be greyed out and unavailable when EN Grade 2 is Enabled.
PowerG Camera Alarm Image Upload Count	10	Determines the number of Images to be uploaded by any PowerG PIR CAM when triggered during an Alarm. Choose between 10 and 1.
Security Page	Enabled	Choose whether or not you want the "Security Page" to appear as part of primary user interface on the panel. NOTE: Before the Security Page can be disabled, you must enable the "Wellness Page" or the "Home Control Page". This feature can not be disabled if Partitions are enabled.
Wellness Page	Disabled	Choose whether or not you want the "Wellness Page" to appear as part of primary user interface on the panel. NOTE: This feature can not be enabled if Partitions are enabled.



Setting	Default	Description
Check-in/Check-Out	Disabled	Choose whether or not you want a "Check-in" and "Check-out" button to appear as part of the Wellness Page UI. This feature allows a nurse to check in/out and have their picture taken by the panel as record of their visit. NOTE: The Wellness Page must be enabled in order for this feature to also be enabled.
Home Control Page	Disabled	Choose whether or not you want the "Home Control Page" to appear as part of primary user interface on the panel. NOTE: Before the Home Control Page can be enabled there must be at least two (2) different "types" of automation devices added to the panel (Lights, Locks or Thermostats). This feature can not be enabled if Partitions are enabled.
Door Lock Page	Enabled	Choose whether or not you want the "Door Lock Page" to appear as part of primary user interface on the panel anytime a Door Lock is added as a device.
Thermostat Page	Enabled	Choose whether or not you want the "Thermostat Page" to appear as part of primary user interface on the panel anytime a Thermostat is added as a device.
Scenes Support	Disabled	When enabled, a new icon will appear in the panel UI on left hand footer enabling the use of Scenes that have been created on Alarm.com. NOTE: This feature can not be enabled if Partitions are enabled.
Stream Live Video Cameras to IQ Remote	Disabled	This setting allows a user to view cameras from the IQ Remote. When enabled, Cameras that are streaming to the primary panel will also stream to the IQ Remote.



Setting	Default	Description
PowerG RF Jam Detection	Disabled	When enabled the system can detect when an unusual amount of RF signals are being transmitted in the PowerG spectrum leading to a potential panel malfunction. This event reports to the central station when enabled. Choose from Disabled, UL20/20 or En 30/60.
Jam Detection	Disabled	When enabled the system can detect when an unusual amount of RF signals are being transmitted on the frequency of the legacy daughter card installed in the panel (319.5MHz, 345MHz or 433MHz) leading to a potential panel malfunction. This event reports to the central station when enabled.
Jam Detection Local Alarm NOTE: Not evaluated by UL/cUL	Disabled	When enabled the system will sound a local alarm. "Jam Detection" must be active for this to function properly
SRF Jam Sensitivity Level	Normal	Choose between HIGH and NORMAL sensitivity levels
Allow Master Code to Access Security Sensors	Disabled	Allow the Master Code to access to the Security Sensor icon, including Auto Learn Sensor, Add Sensor, Edit Sensor, Delete Sensor, Sensor Status & Sensor Group
Open/Close Reports Allowed For Auto Learn	Enabled	Rather than sending a tamper to auto learn a sensor, enabling this will allow an open/ close of the sensor to trigger auto learn

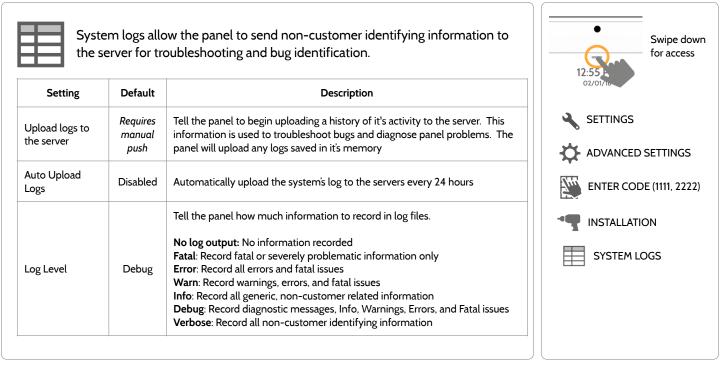


Setting	Default	Description	
Delete All Sensors	Deletes all security sensors and Bluetooth devices programmed in the panel		
Delete All Z-Wave Devices	Performs a factory reset on the Z-Wave controller. Does not factory reset previously included devices.		
Master Reset*	Restores panel to factory settings and erases all content		
Data Recycle	This feature erases all User data previously stored. (Wi-Fi SSID & Password, User Codes, Images, Custom PhotoFrame Images, Message Center & Panel Event History).		
IQ Remote Reset Authentication	Disabled	If Enabled, the IQ Remote will require authentication (Dealer or Installer Code) to master reset it.	



SYSTEM LOGS

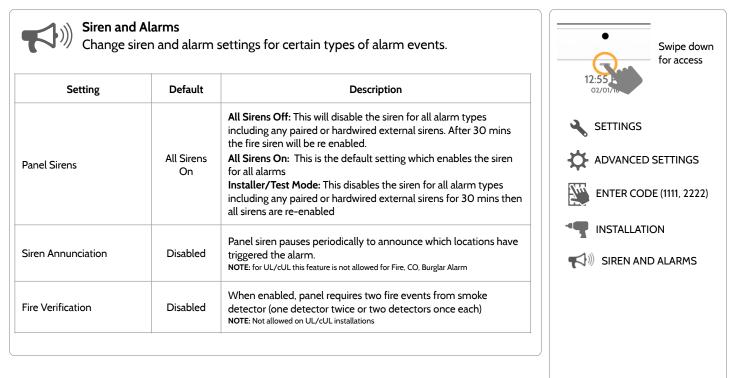
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SIREN AND ALARMS

FIND IT





SIREN AND ALARMS

Setting	Default	Description
Burglary Alarm Confirmation	Disabled	When enabled, a confirmed alarm requires two sequential burglary alarms within the Burglary Alarm Confirmation Timer window. NOTE: This setting is greyed out and unavailable unless EN Grade 2 is enabled.
Burglary Alarm Confirmation Timer	30	Timer used for Burglary Alarm Confirmation. NOTE: This setting is greyed out and unavailable unless EN Grade 2 is enabled.
Severe Weather Siren Warning	Enabled	When enabled, siren will sound when the panel receives a severe weather alert. When disabled, panel will use severe weather chime
Dialer Delay	:30	Amount of time (in seconds) before panel will attempt call to central station after an alarm event is triggered When SIA Limits enabled: :15 to :45 seconds When SIA Limits disabled: :0 to :254 seconds
Siren Timeout	4 min	Determine how long before siren stops sounding during an alarm event (4 minutes to 15 minutes). NOTE: For UL/cUL residential fire/burg applications the minimum bell timeout shall be set to 5 min. For UL Commercial Burglary installations, minimum bell time out shall be set to 15 minutes.
Water/Freeze Siren/Temperature Siren	Disabled	When enabled, siren will sound when a water or freeze detector is triggered. When disabled, the panel emits a "water" tone



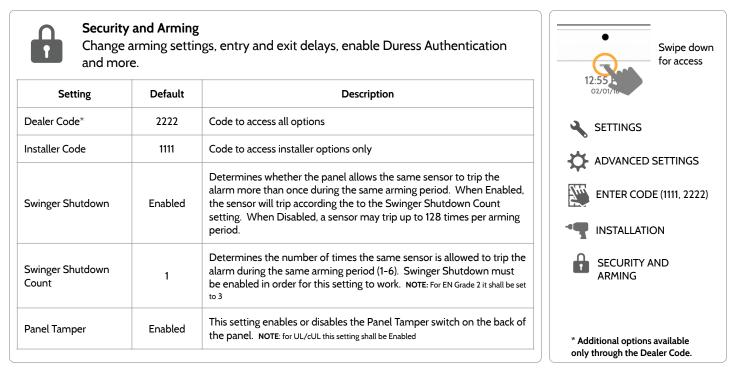
SIREN AND ALARMS

Setting	Default	Description
PowerG Smoke Detector Siren	Fire Alarms Only	When set to "Fire Alarms Only", PowerG Smoke Detectors that are learned into the system will only sound during fire alarm events. When set to "All Alarms", PowerG Smoke Detectors will act as additional wireless sirens and will sound during all alarm events.
Police Panic	Enabled	Allows Police Panic to be enabled or disabled.
Fire Panic	Enabled	Allows Fire Panic to be enabled or disabled.
Auxiliary Panic	Enabled	Allows Auxiliary Panic to be enabled or disabled.
Audible Siren for Wireless Supervisory Failures	Disabled	When this setting is enabled and the system is armed, supervisory failures for non- emergency sensors are treated the same as a tamper and cause an alarm to be generated.
Allow Master Code To Access Siren and Alarms	Disabled	Allow the master code to access these features and settings. NOTE: not allowed for UL/cUL.



SECURITY AND ARMING

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SECURITY AND ARMING

Setting	Default	Description	
Screen Lock	Disabled	When enabled, a screen lock page will appear. Screen lock restricts access to the panel based on valid user codes. NOTE: This setting is automatically enabled when Partitions are enabled, though it can subsequently be disabled if desired. It is also enabled for "EN Grade 2"	
Secure Arming	Disabled	Require user code for arming the panel. NOTE: this option shall be enabled for UL/cUL.	
Refuse Arming When Battery Low	Disabled	Will not allow panel to arm if battery is low (below 8%)	
Auto Bypass	Enabled	Toggle whether or not to bypass open or tampered sensors automatically. NOTE: Shall be disabled for UL/cUL. This setting is turned off and greyed out when the "En Grade 2" setting is enabled.	
Final Exit Door Arming	Disabled	When enabled, if Arm Away is selected at the panel then there is no timed exit delay. Inste the system is not fully armed until an Entry/Exit door is violated. NOTE: This setting is greyed out a unavailable unless EN Grade 2 is enabled.	
Auto Stay	Enabled	If panel is armed "Away" but a delay door is not opened, the panel assumes you are still home and changes arming to "Stay" mode	
Arm Stay - No Delay	Enabled	Arm stay immediately with no countdown timer	
Auto Exit Time Extension	Enabled	Automatically extend countdown timer if delay door is opened during countdown process a second time	



SECURITY AND ARMING

Setting	Default	Description
Keyfob Instant Arming	Enabled	When enabled, turns off exit delay if keyfob is used to arm the system
Keyfob Alarm Disarm	Disabled	When enabled this will Allow a keyfob to disarm alarm events, except panics originating from the same key fob
Keyfob Disarming	Enabled	When Disabled, a Keyfob will not be able to disarm the panel
Engineer's Reset	Disabled	If a confirmed alarm occurs on a burglary zone, the system is locked out after disarming until a 5 digit reset code provided by the installer is entered in.
Allow Master Code to Access Security and Arming	Disabled	Allow the master code to access these features and settings. NOTE: this option shall be disabled for UL/cUL. This option shall be enabled for UL Commercial Burg installations.
Normal Entry Delay	30 Secs	How much time users have to enter their code after opening a door (30-240secs). With SIA limits disabled the minimum time can be set to 5 secs. NOTE: For UL Commercial Burg (UL2610) maximum entry delay should not exceed 60s
Normal Exit Delay	60 Secs	How much time users have to exit the location before the panel arms itself (30-254secs). With SIA limits disabled the minimum time can be set to 5 secs. Door/Window group 10 follows the "Normal Exit Delay" NOTE: For UL Commercial Burg (UL2610) maximum exit delay should not exceed 60s



SECURITY AND ARMING

Setting	Default	Description
Long Entry Delay	100 Secs	A second separate entry delay that can be used on a sensor needing more time when tripped (45-240secs). With SIA limits disabled the minimum time can be set to 5 secs
Long Exit Delay	120 Secs	A second separate exit delay that can be used on a sensor needing more time when tripped (45-254secs). With SIA limits disabled the minimum time can be set to 5 secs. Door/Window group 12 follows the "Long Exit Delay"

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PROGRAMMING

Z-WAVE DEVICE LIST*

Z-Wave Device List Swipe down Shows device specific information for programmed Z-Wave devices. for access Pressing "Info" displays: SETTINGS 1:53 PM \bigtriangledown Jul 19 2019 Product Info ADVANCED SETTINGS Protocol Info Application Info Light Downstairs Light 2 None Info ReInterview $Y_{\mu\nu}$ ENTER CODE (1111, 2222) Supported Command Classes Info 3 Thermostat None Thermostat ReInterview Z-WAVE DEVICE LIST Pressing "Re-Interview" will resend all initial pairing commands to $\widehat{}$ that device. *This page only available through the Dealer Code.



SOUND

PROGRAMMING

more.

Description Setting Default SETTINGS Controls the panel's voice volume, beeps and chime volume and the n/a Volume media volume (help videos) through individual sliders ADVANCED SETTINGS Edit Chimes Allows you to select from various chimes for each individual device n/a ENTER CODE (1111, 2222) Voice Settings SOUND This is a global setting for Sensors, Panel messages, Activity Monitoring Sensors, and Z-Wave device voices and indicates Voices Enabled whether the panel should "speak" Enabled Turns Sensor voices on (enabled) or off (disabled) Sensors Turns Panel voices on (enabled) or off (disabled) Panel Enabled Activity Monitoring Fnabled Turns Activity Monitoring voices on (enabled) or off (disabled)

FIND IT

QOLSYS CONFIDENTIAL AND PROPRIETARY PAGE 44 OF 170



Swipe down

for access

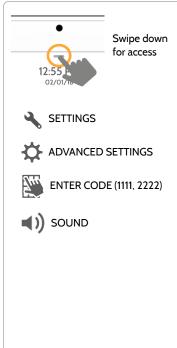


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PROGRAMMING

SOUND

Setting	Default	Description	
Z-Wave Device Voice Prompts	Enabled	Turns Z-Wave Device voices on (enabled) or off (disabled)	
Remote Z-Wave Device Voice Prompts	Enabled	Turns voices on (enabled) or off (disabled) for Z-Wave devices being controlled remotely (via Alarm.com)	
		Chime Settings	
All Chimes	Enabled	This is a global setting for Sensors, Panel messages and Activity Monitoring Sensors chimes and indicates whether the panel should emit tones or "beeps"	
ensor Chimes	Enabled	Turns chimes on (enabled) or off (disabled) for Sensors	
Panel	Enabled	Turns Panel chimes on (enabled) or off (disabled)	
Activity Sensor	Enabled	Turns Activity Sensor chimes on (enabled) or off (disabled)	





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Setting	Default	Description	•
		Trouble Beeps	Swipe down for access
Trouble Beeps	Disabled	Toggles all sensor and panel trouble beeps on or off. By default all trouble beeps are disabled	12:55 02/01/10
Sensor Low Battery	Disabled	Panel sounds when a sensor battery is low. Chime type and frequency are set below. By default these sounds are disabled	SETTINGS
Sensor Tamper Beeps	Disabled	Panel sounds when a sensor is tampered. Chime type and frequency are set below. By default these sounds are disabled	ADVANCED SETTINGS
Panel Tamper Beeps	Disabled	Panel sounds when tampered or opened. Chime type and frequency are set below. By default these sounds are disabled	ENTER CODE (1111, 2222)
Edit Trouble Beep Chimes	n/a	Select the chime type for Sensor Low Battery, Sensor Tamper, and Panel Tamper	
Trouble Beeps Timeout	30	Determines the amount of time between each trouble beep. Length can be set between 3-60 mins. (default is 30 mins)	
Fire and Life Safety	Disabled	Panel will sound a trouble alert if a fire safety device is tampered,	

failed or has a low battery (disabled by default)

SOUND

Device Trouble Beeps

PROGRAMMING

Disabled



SOUND

PROGRAMMING

Setting	Default	Description	• Swipe down			
	Partition Sounds*					
Global Fire Siren	Enabled	When Partitions are enabled this setting determines whether Fire alarms sound in all partitions (enabled) or in only the partition they are assigned to (disabled)	12:55 02/01/16 SETTINGS			
Global Instrusion Sounds and Sirens	Disabled	Intrusion alarms and entry/exit sounds will sound in all partitions	ADVANCED SETTINGS			
Global Auxiliary Sirens	Disabled	Auxiliary alarm will sound in all partitions	ENTER CODE (1111, 2222)			
Global Chimes and Voices	Disabled	Chimes and voices will play in all partitions				
All Sounds in Partition 1	Disabled	Sounds and alarms from all other partitions will sound in partition 1				
		Other Sounds				
Touch Sounds	Enabled	This setting determines whether a touch sound is played when touching the screen (enabled) or not (disabled)				
Exit Beeps	Enabled	Play exit beeps for the Quick Exit and Quick Access feature on the panel (enabled) or not (disabled)	* Additional settings available only when Partitions are enabled.			



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PARTITIONS*

Partitions

12/14/18

Panel

PROGRAMMING

Edit the default name of a partition and view a list of users and sensors that

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are currently assigned to a given partition. Partitions 1, 2, 3 & 4 only appear when Partitions are enabled and when at least one sensor is learned into them. 1:51 PM 1:52 PM ~ 🔴 но 1:56 PM

Overview:

nutition4

Mother In-Law Suite

View the number of partitions set up on a system. There must be at least one sensor assigned to a partition before it can be viewed/edited

Info: View Users and Sensors associated with each partition

Edit: Rename a partition that suits it's location or area being protected

12/14/18

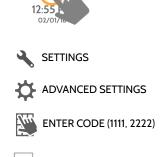
Mother In-Law Suit-

Partition Number

🔶 文 🕢 🔶

* The "Partitions" icon will only appear if Partitions are enabled

under Installer/Dealer Settings



PARTITIONS

FIND IT

M



Swipe down

for access



₩ H0'

Runs Daily:

- Automatically LOCK all locks at night (8pm)
- Set all thermostats to AUTO mode with a target temperature of 65°F - 78°F
- Turn Light 1 ON at night (8pm) and then turn all lights OFF in the morning (6am)

PROGRAMMING

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DEALER BRAND

L())

SOUND

LOCAL AUTOMATION

LOCAL AUTOMATION*

Local Automation

This hardcoded scene is designed for Panels installed in new construction properties that do not yet have an Alarm.com account activated, but that need to manage Z-Wave devices locally in a "vacant home mode".

WI-FI

PARTITIONS

12/14/18 LOCAL AUTOMATION Wi 🖪 Local Automation is Enabled

All thermostats will be set to AUTO mode with target

2:13 PM

All locks will be LOCKED at night

temperature 65°F - 78°F at night

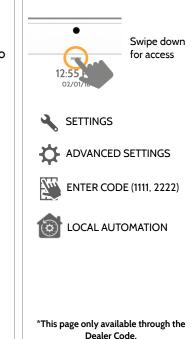
O Local Automation is Disabled

HOMEKIT

The first light will be turned ON at night

All lights will be turned OFF in the morning

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DEVICES

Swipe down 12:56 PM for access H 43° _29° 12/18/18 02/0 Wi (Fi) GWAVE GWAVE 2 SETTINGS BLUETOOTH SECURITY SENSORS **Z-WAVE DEVICES** UNSUPPORTED WI-FI DEVICES Ċ ADVANCED SETTINGS DEVICES **Z-WAVE DEVICES** $J_{\mu\nu}$ ENTER CODE (1111, 2222) INSTALLATION • • • *Unsupported Z-Wave Devices icon only available through the Dealer Code.

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SECURITY SENSORS

SECURITY SENSORS

Security Sensors

Auto Learn Sensor

information



SECURITY SENSORS



Add Sensor Pair sensors manually by typing in a DL code or Serial number

Pair sensors quickly by tripping or

tampering and then editing the

Edit Sensor Make changes to existing sensors



Delete Sensor Remove a sensor



Sensor Status Monitor sensor status in realtime



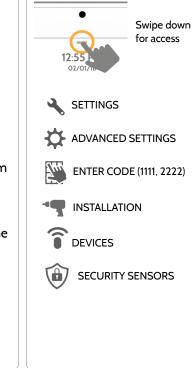
Add, edit or delete up to 128 security RF or life safety devices.

Sensor Group Quick reference to all sensor groups and their actions



Remove All PowerG Sensors Delete all PowerG sensors from the Panel

PowerG Output Rules Configure PGMs when using the PGxWLSHW8



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AUTO LEARN SENSOR

SECURITY SENSORS

1. Select "Auto Learn Sensor"

2. For PowerG contacts, hold the "enroll" button until the yellow LED flashes.

3. Panel will chime and display the sensor's DL code. Select OK to confirm.

4. Configure Partition Name, Sensor Type, Sensor Group, Sensor Name, Chime Type and Voice Prompts with the smart filtering drop down lists.

5. Select "Add New" to complete and move to the next sensor.

NOTE: When enrolling an "S-Line" sensor, the panel will auto detect that it's encrypted and change the "Source" field to S-Line.

When enrolling a sensor of a different frequency (345MHz, 433MHz, PowerG) the Source field will change to accommodate the incoming signal type.

When a sensor with the frequency 345 is used, you will be given an additional field to specify the Loop #.

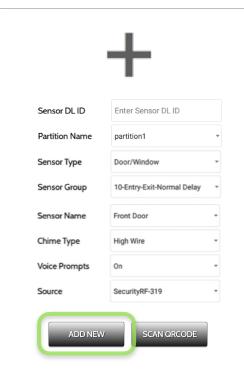
	NO		YES	
← H 101° L 64°	11:3	25 AM 23 2019		5
Sensor DL ID	FB88A0	Sensor Name	Front Door	
Partition Name	partition1	Chime Type	High Wire	
Sensor Type	Door/Window	Voice Prompts	On	
	10-Entry-Exit-Normal Delay	Source	SecurityRF	



AUTO LEARN SENSOR

SECURITY SENSORS





1. Select "Add Sensor" (NOTE: These same fields can be edited later from the "Edit Sensor" app)

2. Tap the field marked "**Sensor DL ID**" to open the keyboard. Enter the DL code or Sensor ID on the back of the device and touch "Done"

3. Use the drop down menu to select which **Partition** you would like the sensor to be added to (if enabled)

- 4. Choose Sensor Type from list
- 5. Indicate Sensor Group from list

6. Choose **Sensor Name** from the list or create a "Custom Name" using the built in keyboard with Custom Text to Speech.

- 7. Choose Chime Type from list
- 8. Indicate whether you want Voice Prompts on or off

9. Click "Add New" to save the information and complete the process.



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PARTITION NAME

When Partitions are enabled (see Dealer/Installer Settings) you may then assign a sensor to a specific partition. This will allow independent control and arming of that partition without disrupting the main panel's master partition. You may create and use up to 4 partitions.

₩0° LO°		: 58 12/18		
Sensor DL ID	Enter Sensor DL ID	Sensor Name	Front Door	•
Partition Name	partition1	Chime Type	High Wire	•
Sensor Type	partition2	Voice Prompts	On	•
Sensor Group	partition3 partition4	Source	SecurityRF	•
•		SCAN QRCODE		



Door/Window Motion 16:58 ΗO° LO° Glass Break 12/12/18 Key Fob Keypad **Auxiliary Pendant** Enter Sensor DL ID Sensor DL ID Sensor Name Front Door Ŧ Smoke Detector CO Detector Partition Name Chime Type High Wire partition1 Hardwire Translator * -Wireless Translator Sensor Type Voice Prompts On Temperature Door/Window Heat Sensor Group Motion SecurityRF Water Source -Shock Sensor Glass Break Freeze Tilt Key Fob Door Bell SCAN QRCODE Smoke-M Door/Window-M • • + Occupancy Sensor Siren **High Temperature**

SENSOR TYPE

When adding or editing security devices you can choose from the following sensor types:

SECURITY SENSORS



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SECURITY SENSORS

SENSOR GROUP

Sensor groups will change the behavior of the sensor. These are tied directly to your Sensor Type, displaying only what's relevant.

Touch the "Sensor Group" drop down to change.

A full list of Sensor Groups and descriptions can be found under "Sensor Groups" listed in the manual below.

HO° LO°		16	: 58 12/18		
Sensor DL ID	Enter Sensor DL ID		Sensor Name	Front Door	•
Partition Name	partition1	•	Chime Type	High Wire	•
Sensor Type	Door/Window	•	Voice Prompts	On	•
Sensor Group	10-Entry-Exit-Normal Delay 12-Entry-Exit-Long Delay 13-Instant Perimeter D/W		Source	SecurityRF	•
•	14-Instant Interior Door	*	SCAN QRCODE		





SENSOR GROUPS

IQ Hub supports either PowerG, 319.5 MHz, 345 MHz, or 433 MHz sensors depending on which version of the panel is being used. Sensor Group numbers and behaviors remain the same across all frequencies. When pairing a 345 MHz sensor with the Panel, an additional option for "Loop" number will be shown.

DOOR/WINDOW

GROUP	NAME	SUPERVISED	SCENARIO
10	Entry-Exit- Normal Delay	Y	Gives a period of time to exit the home or to disarm the panel when returning before sounding the alarm
12	Entry-Exit- Long Delay	Y	Gives a period of time to exit the home or to disarm the panel when returning before sounding the alarm. This can be a separate delay from the "normal delay"
13	Instant Perimeter D/W	Y	Door or window that triggers an alarm instantly when system is armed
14	Instant Interior Door	Y	An interior sensor that triggers an alarm instantly while armed to both stay and away. Does not trip if an entry/exit sensor is tripped first
16	Away Instant- Follower Delay	Y	Interior door that triggers alarm instantly when system is armed to away mode only



DOOR/WINDOW

GROUP	NAME	SUPERVISED	SCENARIO
25	Local Safety Sensor	Y	This sensor does not report or trigger an alarm. This is a chime only sensor when "Activity Monitoring" is active, regardless of panel status. Used for medicine cabinets, chemical storage etc
8	Reporting Safety Sensor	Y	This sensor reports to the central station and triggers an alarm when "Activity Monitoring" is active, regardless of panel status
9	Delayed Reporting Safety Sensor	Y	This sensor reports to the central station and triggers an alarm when "Activity Monitoring" is active, regardless of panel status. This sensor has an entry delay

*345 MHz door/window sensors will have the option to change the "Loop" number to 1 or 2. This will allow the sensor to be programmed twice as 2 different zones.

* Power G Door/Window contact 9945 adds an additional drop down menu to determine the contact type, Reed Switch or Wired.



MOTION

GROUP	NAME	SUPERVISED	SCENARIO
17	Away- Instant Motion	Y	Active only when armed to "Away", and trips instantly when motion is detected. Does not trip if an entry/exit sensor is tripped first
15	Stay- Instant Motion	Y	Active in both "Stay" & "Away" modes, and trips instantly when motion is detected. Does not trip if an entry/exit sensor is tripped first
35	Stay- Delay Motion	Y	Active in both "Stay" & "Away" modes. Triggers an entry delay when motion is detected. Does not trip if an entry/exit sensor is tripped first
20	Away- Delay Motion	Y	Active when armed to "Away". Triggers an entry delay when motion is detected. Does not trip if an entry/exit sensor is tripped first
25	Safety Motion	Y	This sensor does not report or trigger an alarm. This is a chime only sensor when "Activity Monitoring" is active, regardless of panel status. Used for medicine cabinets, storage, activity tracking, etc

*345 MHz motion sensors will have the option to change the "Loop" number to 1, 2 or 3. This will allow the sensor to be programmed twice as 2 different zones where supported by the device.

*Power G Motion Detectors with Prefix 120, 122, 130, 140 and 142 offer additional functions such as High Traffic Shutdown and Sensitivity Level. Motions with prefix 123, 126, 127, 128 and 129 offer High Traffic Shutdown only as an additional function.



MOTION

GROUP	NAME	SUPERVISED	SCENARIO
43	Away- Instant, Stay- Delay Motion	Y	Active in both "Stay" & "Away" modes. During Away mode, trips instantly when motion is detected. Does not trip if an entry/exit sensor is tripped first. During Stay mode, triggers an entry delay when motion is detected.
44	Away- Instant Interior Motion	Y	Active only when armed to "Away", and trips instantly when motion is detected. Does not follow entry/exit delay rules and is always instant.
45	Away- Stay- Instant Interior Motion	Y	Active in both "Stay" & "Away" modes. Trips instantly when motion is detected. Does not follow entry/exit delay rules and is always instant.

*345 MHz motion sensors will have the option to change the "Loop" number to 1, 2 or 3. This will allow the sensor to be programmed twice as 2 different zones where supported by the device.

*Power G Motion Detectors with Prefix 120, 122, 130, 140 and 142 offer additional functions such as High Traffic Shutdown and Sensitivity Level. Motions with prefix 123, 126, 127, 128 and 129 offer High Traffic Shutdown only as an additional function.



GLASS BREAK

*345 MHz glass break sensors can be programmed as "Loop" 1 only

GROUP	NAME	SUPERVISED	SCENARIO
13	Glass Break	Y	Active in both "Stay" and "Away" mode
17	Glass Break -Away Only	Y	Active in "Away" mode only

KEY FOB

*345 MHz Keyfobs will follow the IQ Hub's Keyfob programming and functionality

GROUP	NAME	SUPERVISED	SCENARIO
1	Mobile Intrusion	Ν	Worn or carried, the button(s) is/are programmed to trigger a police panic
3	Mobile Silent	Ν	Worn or carried, the button(s) is/are programmed to trigger a silent police panic
4	Fixed Auxiliary	Y	Installed in a fixed location such as night stand, the button(s) is/are programmed to trigger an Auxiliary panic. NOTE: Medical functionality has not been evaluated by UL/cUL
5	Fixed Silent Auxiliary	Y	Installed in a fixed location such as night stand, the button(s) is/are programmed to trigger a silent Auxiliary panic. NOTE: Medical functionality has not been evaluated by UL/cUL



KEY FOB

*345 MHz Keyfobs will follow the IQ Hub's Keyfob programming and functionality

GROUP	NAME	SUPERVISED	SCENARIO
6	Mobile Auxiliary	N	Worn as a wrist watch or pendant, the button(s) is/are programmed to trigger an Auxiliary panic. NOTE: Medical functionality has not been evaluated by UL/cUL
7	Mobile Silent Auxiliary	N	Worn as a wrist watch or pendant, the button(s) is/are programmed to trigger a silent Auxiliary panic. NOTE: Medical functionality has not been evaluated by UL/cUL

KEYPAD

GROUP	NAME	SUPERVISED	SCENARIO
0	Fixed Intrusion	Y	Installed in a fixed location , the keypad is programmed to trigger a police panic. NOTE : Hold-up functionality has not been evaluated by UL/cUL
1	Mobile Intrusion	N	Keypad can be mobile and is programmed to trigger a police panic
2	Fixed Silent	Y	Installed in a fixed location , the keypad is programmed to trigger a silent police panic
3	Mobile Silent	Ν	Keypad can be mobile and is programmed to trigger a silent police panic



KEYPAD

GROUP	NAME	SUPERVISED	SCENARIO
4	Fixed Auxiliary	Y	Installed in a fixed location such as night stand, the keypad is programmed to trigger an Auxiliary panic. NOTE: Medical functionality has not been evaluated by UL/cUL
5	Fixed Silent Auxiliary	Y	Installed in a fixed location such as night stand, the keypad is programmed to trigger a silent Auxiliary panic. NOTE : Medical functionality has not been evaluated by UL/cUL
6	Mobile Auxiliary	N	Keypad can be mobile and is programmed to trigger an Auxiliary panic. NOTE: Medical functionality has not been evaluated by UL/cUL
7	Mobile Silent Auxiliary	N	Keypad can be mobile and is programmed to trigger a silent Auxiliary panic. NOTE : Medical functionality has not been evaluated by UL/cUL



AUXILIARY PENDANT

*345 MHz auxiliary pendants can be programmed as "Loop" 1 only

GROUP	NAME	SUPERVISED	SCENARIO
0	Fixed Intrusion	Y	Installed in a fixed location such us under a desk, the button(s) is/are programmed to trigger a police panic
1	Mobile Intrusion	N	Worn or carried, the button(s) is/are programmed to trigger a police panic
2	Fixed Silent	Y	Installed in a fixed location such us under a desk, the button(s) is/are programmed to trigger a silent police panic
3	Mobile Silent	N	Worn or carried, the button(s) is/are programmed to trigger a silent police panic
4	Fixed Auxiliary	Y	Installed in a fixed location such as night stand, the button(s) is/are programmed to trigger an auxiliary panic
5	Fixed Silent Auxiliary	Y	Installed in a fixed location such as night stand, the button(s) is/are programmed to trigger a silent Auxiliary panic. NOTE : Medical functionality has not been evaluated by UL/ cUL
6	Mobile Auxiliary	N	Worn as a wrist watch or pendant, the button(s) is/are programmed to trigger an Auxiliary panic
7	Mobile Silent Auxiliary	N	Worn as a wrist watch or pendant, the button(s) is/are programmed to trigger a silent Auxiliary panic. NOTE: Medical functionality has not been evaluated by UL/cUL
25	Safety Auxiliary Pendant	N	Used for local alerts like a nurse call button. Will not report an alarm to the Central Station



SMOKE DETECTOR/HEAT

*345 MHz smoke sensors will have the option to change the "Loop" number to 1, 2 or 3. This will allow the sensor to be programmed twice as 2 different zones where supported by the device

GROUP	NAME	SUPERVISED	SCENARIO
26	Smoke-Heat	Y	Triggers an alarm when sensor detects smoke/rapid rise in heat

SMOKE-M

GROU	UP	NAME	SUPERVISED	SCENARIO
26		Smoke-Heat	Y	Triggers an alarm when sensor detects smoke or a rapid rise of heat. Use ONLY with Qolsys multi-sensor smoke (QS5110-840)

CO DETECTOR

*345 MHz carbon monoxide sensors can be programmed as "Loop" 1 only

GROUP	NAME	SUPERVISED	SCENARIO
34	СО	Y	Triggers an alarm when sensor detects Carbon Monoxide

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HARDWIRE TRANSLATOR & WIRELESS TRANSLATOR

GROUP	NAME	SUPERVISED	SCENARIO
13	Takeover	Y	Triggers an alarm when sensor is tampered in "Stay" or "Away" mode

TILT

*345 MHz tilt sensors can be programmed as "Loop" 3 only

GROUP	NAME	SUPERVISED	SCENARIO
10	Entry-Exit- Normal Delay	Y	Triggers alarm after "normal delay" expires. Arms with both "Stay" and "Away"
12	Entry-Exit- Long Delay	Y	Triggers alarm after "long delay" expires. Arms with both "Stay" and "Away
25	Garage Tilt- Safety Tilt	Y	This sensor group does not report or trigger an alarm. This is a chime only sensor when "Activity Monitoring" is active, regardless of panel status. Great for detached garage/shops. NOTE : Functionality in conjunction with garage door openers has not been evaluated by UL/cUL



*345 MHz water sensors will have the option to change the "Loop" number to 1, 2 or 3. This will allow the sensor to be programmed twice as 2 different zones where supported by the device

GROUP	NAME	SUPERVISED	SCENARIO
38	Water Sensor	Y	Triggers an alarm when sensor detects presence of water. NOTE: flood sensor functionality has not been evaluated by UL/cUL
25	Water Non-Reporting	Y	Used for local alerts. Will not report an alarm to the Central Station

Please note: When selecting "Water" you will see two additional options under "Sensor Sub-Type". For IQ TempH20 (QS5500-PO1) & the IQ Flood (QS5516-840/QS5536-840) select "IQ Flood", for all others, select "Other Flood"

SHOCK SENSOR *345 MHz shock sensors will have the option to change the "Loop" number to 1 or 3. This will allow the sensor to be programmed twice as 2 different zones where supported by the device

GROUP	NAME	SUPERVISED	SCENARIO
13	Shock-Glass-Break	Y	Arms and trips shock sensors immediately when armed to both "Stay" and "Away"
17	Glass-Break-Away Only	Y	Arms and trips shock sensors immediately when armed only to "Away"

Please note: When selecting "Shock" you will see two additional options under "Sensor Sub-Type". For IQ Shock select "IQ Shock", for all others select "Other Shock". *Power G Shock Sensor with prefix 170 offers additional sensitivity level functions



FREEZE

*345 MHz temp sensors can be programmed as "Loop" 1 only

GROUP	NAME	SUPERVISED	SCENARIO
52	Freeze	Y	Triggers an alarm when sensor detects low temperatures. NOTE: temperature sensor functionality has not been evaluated by UL/cUL
25	Freeze Non-Reporting	Y	Used for local alerts. Will not report an alarm to the Central Station

Please note: When using the PG9905 with Group 52, Freeze, the Low threshold setting is set to 40°F by default. The Low threshold can be customized between -22°F and 158°F.

HIGH TEMPERATURE

GROUP	NAME	SUPERVISED	SCENARIO
53	Temp Reporting	Y	Triggers an alarm when sensor detects high temperatures. NOTE: temperature sensor functionality has not been evaluated by UL/cUL
25	Temp Non-Reporting	Y	Used for local alerts. Will not report an alarm to the Central Station

Please note: When using the PG9905 with Group 53, the High threshold setting is set to 100° F by default. The High threshold can be customized between -22° F and 158° F.

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DOOR BELL

GROUP	NAME	SUPERVISED	SCENARIO
25	Local Safety Sensor	Y	This sensor does not report or trigger an alarm. This is a chime only sensor when "Activity Monitoring" is active, regardless of panel status. Great to automate lights, cameras and notifications etc

SIREN

GROUP	NAME	SUPERVISED	SCENARIO
33	Siren	Y	Used for supervising Z-Wave sirens for wireless connectivity. Reports to the central station.
25	Local Safety Sensor	Y	Used for supervising Z-Wave sirens for wireless connectivity. Local supervision only. Does NOT report to the central station.

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$\label{eq:constraint} DOOR/WINDOW-M \ \ (For use only with Multi-function Door/Window Sensors)$

GROUP	NAME	SUPERVISED	SCENARIO
10	Entry-Exit- Normal Delay	Y	Gives a period of time to exit the home or to disarm the panel when returning before sounding the alarm
12	Entry-Exit- Long Delay	Y	Gives a period of time to exit the home or to disarm the panel when returning before sounding the alarm. This can be a separate delay from the "normal delay"
13	Instant Perimeter D/W	Y	Door or window that triggers alarm instantly when system is armed
14	Instant Interior Door	Y	An interior sensor that triggers an alarm instantly while armed to both stay and away. Does not trip if an entry/exit sensor is tripped first
16	Away Instant- Follower Delay	Y	Interior door that triggers alarm instantly when system is armed to away mode only



DOOR/WINDOW-M (For use only with Multi-function Door/Window Sensors)

GROUP	NAME	SUPERVISED	SCENARIO
25	Local Safety Sensor	Y	This sensor does not report or trigger an alarm. This is a chime only sensor when "Activity Monitoring" is active, regardless of panel status. Used for medicine cabinets, chemical storage etc
8	Reporting Safety Sensor	Y	This sensor reports to the central station and triggers an alarm when "Activity Monitoring" is active, regardless of panel status
9	Delayed Reporting Safety Sensor	Y	This sensor reports to the central station and triggers an alarm when "Activity Monitoring" is active, regardless of panel status. This sensor has an entry delay

OCCUPANCY SENSOR

GROUP	NAME	SUPERVISED	SCENARIO
25	Local Safety Sensor	Y	This sensor group is to be used for monitoring activity in the home. This group does not report

SENSOR GROUPS



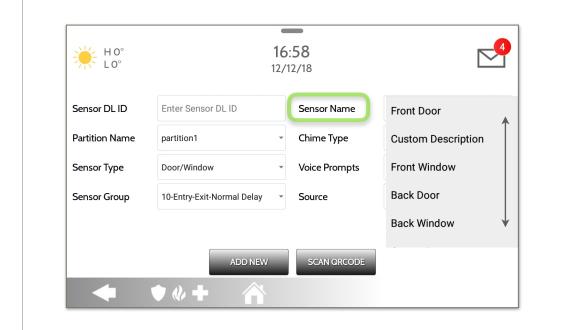
TEMPERATURE

GROUP	NAME	SUPERVISED	SCENARIO
51	Temp Non Reporting	Y	Only for use with the PowerG Temp Sensor (PG9905). This sensor group does not report to the Central Station. Allows for actual temperature monitoring (thermometer) with customizable high/low threshold settings
52	Freeze	Y	Triggers an alarm when sensor detects low temperatures. NOTE: temperature sensor functionality has not been evaluated by UL/cUL
53	Temp Reporting	Y	Triggers an alarm when sensor detects high temperatures. NOTE: temperature sensor functionality has not been evaluated by UL/cUL

Please note: When using the PG9905 with Group 51, the High & Low threshold settings are set to 40°F and 100°F by default. When using Group 52, the Low threshold setting is set to 40°F by default. When using Group 53, the High threshold setting is set to 100°F by default. Thresholds can be customized between -22°F and 158°F.

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When you select the sensor name field you can choose from a variety of preset sensor names by scrolling up and down or create a custom description.

SENSOR NAME



SECURITY SENSORS

SECURITY SENSORS



SENSOR NAME: CUSTOM DESCRIPTION

When you select "Custom Description" as your sensor name the android keyboard will appear. Type in the desired name (up to 56 characters) and click "Done." The name will appear in the field below "Sensor Name."

₩ HO° LO°		16:58 12/12/18		4
Sensor DL ID	Enter Sensor D	Front Door	Front Door	¥
Partition Name	partition1	Custom Description	High Wire	•
Sensor Type	Door/Window	Front Window	On	•
Sensor Group	10-Entry-Exit-No	ormai Delay Source	SecurityRF	•

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CHIME TYPE

16:58 ⊢ HO° LO° 12/12/18 Sensor DL ID Enter Sensor DL ID Sensor Name Front Door Chime Type Partition Name partition1 None Voice Prompts Sensor Type Door/Window High Wire Sensor Group 10-Entry-Exit-Normal Delay On The Hunt Source Door Bell Heaven SCAN QRCODE ADD NEW • • +

Because of the dynamic nature of the way the IQ Hub pairs and understands each individual sensor, you can program each sensor to have a unique chime or even turn chiming off for that individual sensor. To customize your chime for a particular sensor touch the Chime Type drop down and choose from the list.

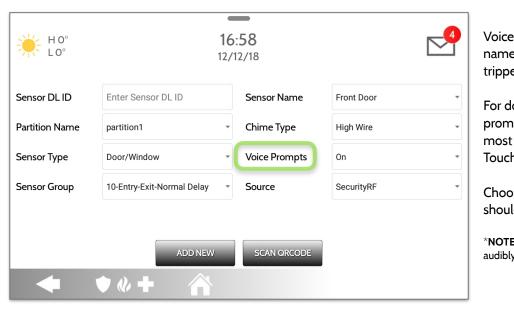


SECURITY SENSORS

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SECURITY SENSORS

VOICE PROMPTS



Voice prompts annunciate the sensor name when the sensor is opened or tripped.*

For door/window sensors, voice prompts are defaulted to "On". For most other sensors the default is "Off." Touch the drop down menu to change.

Choose individually which sensors should have voice prompts ON or OFF

*NOTE: "Activity Monitoring Sensors" will also audibly report when they have been closed.



SECURITY SENSORS



SOURCE

HO° LO°			12/18	
Sensor DL ID	Enter Sensor DL ID		Sensor Name	Front Door *
Partition Name	partition1	•	Chime Type	High Wire 👻
Sensor Type	Door/Window	•	Voice Prompts	On 👻
Sensor Group	10-Entry-Exit-Normal Delay	•	Source	SecurityRF - SecurityRF-319 PowerG
•			SCAN QRCODE	

Source indicates the sensor's incoming frequency when pairing to the IQ Hub and depends on which version of the panel you are using. Source will be displayed as one of the following:

- PowerG
- SecurityRF
- SecurityRF-319
- S-Line
- SecurityRF-345
- 345RF 2G
- SecurityRF-433

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10-Entry-Exit-

Normal Delay

Dorimotor D/M

13-Instant

Edit sensors after they have already been learned in. All fields can be edited

			-				
Ą	H 101 L 64°	0		12:09 PM Jul 23 2019	1	I	\checkmark
NO	PTID	ID	SIGNAL SOURCE	ТҮРЕ	NAME	GROUP	EDIT
1	1	12BEA1	G	Motion	Upstairs Motion Detector	17-Away-Instant Motion	
2	1	12BEA2	G	Motion	Downstairs Motion Detector	17-Away-Instant Motion	
3	1	12BEA3	G	Door/Window	Front Door	10-Entry-Exit- Normal Delay	

Door/Window

Door/Window

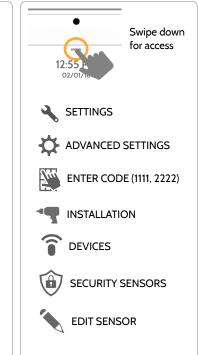
Laundry Door

Back Door

with the exception of the DL or Sensor ID.

To make changes to a sensor, touch the "Pencil" icon next to the sensor that needs editing. Change desired fields and then touch "SAVE".

FIND IT





SECURITY SENSORS

Edit Sensor

EDIT SENSOR

4 1

5 1

12BEA4

12BEA5

G

G

• • +

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SECURITY SENSORS

DELETE SENSOR

H 101°

12BEA1

12BEA2

12BEA3

12BEA4

• • +

G

G

G

G

1

□ 2 1

3 1

4

Delete Sensor

12:20 PM

lul 23 2019

Motion

Motion

Door/Window

Door/Window

DELETE

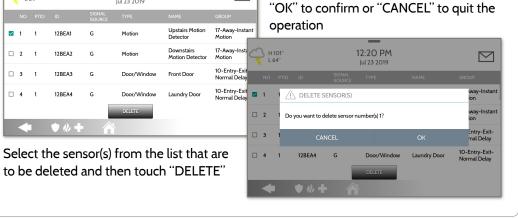
Detector

Downstairs

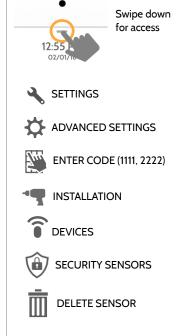
Front Door

Delete each sensor individually or choose to delete more than one at a time. This is useful when needing to replace a sensor all together instead of simply editing programmed information.

 \sim



Verify that the action is correct and touch





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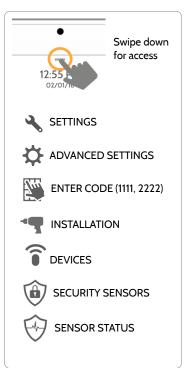
SIAIOS
Sensor Status Monitor sensor status in real time for things like open, close, tamper, idle and low battery.

SENSOR STATUS

SECURITY SENSORS

12:29 PM H 101[°] \bigtriangledown _64° Iul 23 2019 SIGNAL SOURCE Upstairs Motion 17-Away-Instant 12BEA1 G Motion Idle 1 1 Detector Motion Downstairs 17-Away-Instant 2 1 12BEA2 G Idle Motion Motion Detector Motion 10-Entry-Exit-3 1 12BEA3 G Front Door Door/Window Closed Normal Delav 10-Entry-Exit-12BEA4 G Door/Window Closed 4 1 Laundry Door Normal Delav 13-Instant 12BEA5 G Back Door Door/Window 5 1 Open Derimeter D/M

This page also allows you to quickly review programming for things like Zone number. Partition. Signal Source (319, 345, 433, PowerG), Sensor Name. Sensor Type and Sensor Group.





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Siren3

Siren3

Siren3

Immediate

Immediate

Immediate

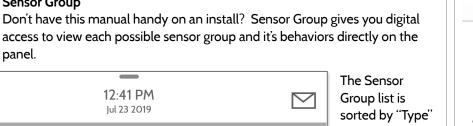
-	acces pane		each possibl	le sensor ;	group and i	ťs behav
	l 101° 64°		12:41 PM Jul 23 2019			
ID	TYPE	NAME	SUPERVISORY	RESTORAL	TIMER	SIREN TYPE
0	Auxiliary Pendant	Fixed Intrusion	Y	N	Immediate	Siren3
1	Auxiliary Pendant	Mobile Intrusion	Ν	Ν	Immediate	Siren3

Ν

Ν

Ν

The Sensor Group list is in alphabetical order from A - Z.



SENSOR GROUP

Auxiliary

Pendant Auxiliarv

Pendant

Auxiliary

Dondant

2

4

6

Fixed Silent

Fixed

Auxiliary

Mobile

Auvilian

Y

Υ

Ν

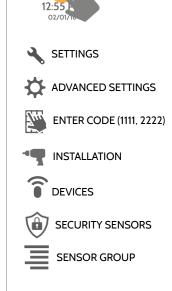
SECURITY SENSORS

Sensor Group



Swipe down

for access





WI-FI DEVICES

WI-FI DEVICES



WI-FI DEVICES



Wi-Fi Devices

View and remove Wi-fi devices associated with the panel as well as configure the Qolsys Access point.



Wi-Fi

Scan and connect to a Wi-Fi network. This will ensure your panel can receive software updates and have a Dual Path connection.



Access Point Settings

Configure the IQ Hub's built in router. Enable/ Disable the router, broadcast or hide the SSID and change the SSID's password etc...



Access Point Connected Devices View connected device information

such as IP, MAC address and for how long the device has been connected.

IQ Remote Devices

Pair an IQ Remote Secondary Touchscreen to the panel whether it is connected to the customer's network or the panel's built in Access Point.

IQ WiFi

Connect to and Manage IQ WiFi and IQ WiFi 6 routers

Swipe down for access SETTINGS ADVANCED SETTINGS ENTER CODE (1111, 2222) INSTALLATION DEVICES WI-FI DEVICES

QOLSYS CONFIDENTIAL AND PROPRIETARY PAGE 84 OF 170

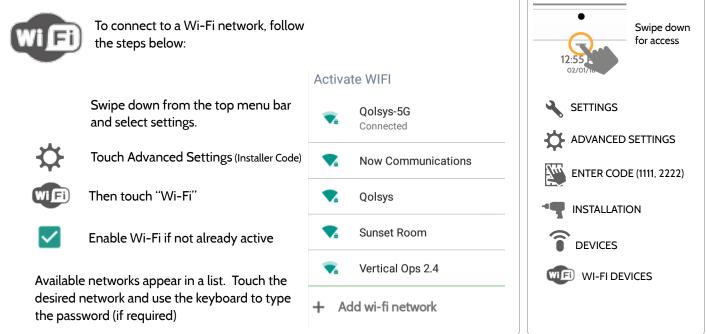
Vertical Ops 2.4 Add wi-fi network +



CONNECTING TO WI-FI



FIND IT



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WI-FI DEVICES



ACCESS POINT SETTINGS

	WI-FI Access Point: Enable or Disable the Panel Access Point
H 39° L 23° H 39° D1/24/18	2 SSID: Change the SSID Name. This is the name that other devices will use to connect to.
WI-FI WI-FI Access Point WI-FI Access Point Enabled and Frequency 2447MHz	 DHCP IP Range: Modify the DHCP IP Range for the access point.
SSID SSID is set to IQPNET1AA573	Default is 50. Change Password:
DHCP IP Range DHCP IP Range is set to 50	 Change the password of the SSID to one of your choosing.
Change Password	• J
Activate WPS	Activate WPS: Connect devices to the panel's built-in access point
◆ ♦₡+ 🕱	using WPS push button.
	Access Point Password:
	Shows current password in use for the Panel Access Point

WI-FI DEVICES



ACCESS POINT CONNECTED DEVICES

H 59°	MAC ADDRESS	4:41 PM 11/01/16 IP ADDRESS	CONNECTED TIME(MM:DD:HH:MM)	ACTIONS	View the IP address, Mac address and connected duration of each Wi-Fi client
1	00:02:d1:42:19:48	192.168.50.80	00:00:00:04		connected to the panel's built in router.
					Select "Actions" to then remove a device that has been associated with the panel.
					You must remove saved network information from the device otherwise it will re- connect to the panel.
•	♦ ♦ ♦	Â			connect to the panet.

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WI-FI DEVICES

IQ REMOTE DEVICES



IQ Remote Devices

Pair up to 3 IQ Remote Secondary Touchscreens to the panel via the customer's network or the panel's built in access point.

*	H 0° L 0°	4:4	2 PM 13/18	
NO	DEVICE NAME	IP ADDRESS	STATUS	ACTIONS
1	IQ Remote 1	192.168.1.71	Inactive	💉 🔟
	_			
		PAIR	TEST REDISCOVE	ĒR
	• • «	+ 🏠		

NOTE: The IQ Remote will automatically pair as Sensor Type "Keypad" and will appear on the zone list in the order in which it is paired. Sensor Groups 0, 1 & 2 are available options for this Sensor Type.

- Connect the IQ Remote to the panel's access point or to the same Wi-Fi network the panel is connected to. NOTE: QW9102 & QW9103 IQ Remotes only support 2.4 GHz networks. QW9104 IQ Remotes support both 2.4 GHz and 5 GHz.
- 2. Prior to pairing the IQ Remote to the panel you can Test the connection by select TEST on the panel and the remote.
- 3. Select "Pair" on the Panel and then Pair on the IQ Remote to begin during this process the remote will also download and update to the current software version and reboot.
- 4. The remote device will pair to the panel and will show that it is active on the list. You can then edit (device name and sensor group), ping, delete or rediscover the device if necessary

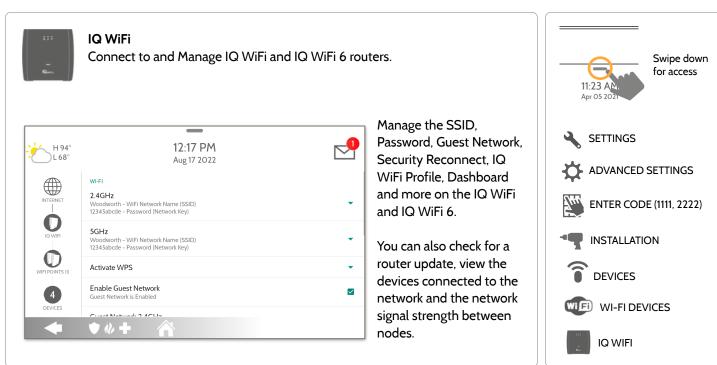


WI-FI DEVICES



FIND IT

IQ WIFI





Z-WAVE DEVICES

Z-WAVE DEVICES

Edit Device

devices

Z-WAVE DEVICES



Z-Wave Devices

Add, Edit, Clear and Remove Z-Wave Devices. You can also View/Edit associations as well as access Z-Wave Settings.



Add Device (Inclusion) Add new devices to the 7-Wave network

Make changes to existing

Clear Device (Exclusion) Removes a Z-Wave device

from it's previous network. Also deletes a device from

Delete Failed Device

the IQ Hub if currently paired.

Remove a failed Z-Wave device

from the IQ Hub's memory



Remove All Devices (Factory Default Reset)

If this controller is the primary controller for your network, resetting it will result in the nodes in your network being orphaned and it will be necessary after the reset to exclude and re-include all of the nodes in the network. If this controller is being used as a secondary controller in the network, use this procedure to reset this controller only in the event that the network primary controller is missing or otherwise inoperable.

View/Edit Associations

Manually change Z-Wave associations for specific devices.



Z-Wave Settings

Configure device limits and other Z-Wave settings.



SmartStart Enter the device's DSK.

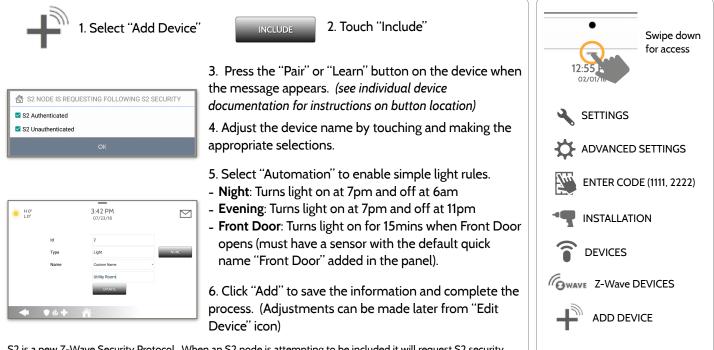


Provisioning List Devices added via SmartStart will show their progress of being included into the network.



Z-WAVE DEVICES





S2 is a new Z-Wave Security Protocol. When an S2 node is attempting to be included it will request S2 security keys. These are based on the level of S2 security that the end device requires. These keys can be Unauthenticated, Authenticated or Access. These keys can be manually granted by selecting the appropriate option.



Touch
"Clear Device"Panel will start sending a
"Clear" signalPress
"Pair" or "Learn"
button on device*NOTE: Each Z-Wave device is different, and not all devices have a hard button to pair or
learn. Refer to your device's installation manual for specifics on pairing or learning.

Press Learn button to clear a Device

CLEAR DEVICE

Clears Z-Wave device from a network, whether it was enrolled with another controller previously or the IQ Hub. Also deletes a device from the IQ Hub if currently paired.

CLEAR DEVICE

Z-WAVE DEVICES

QOLSYS CONFIDENTIAL AND PROPRIETARY PAGE 93 OF 170



Panel returns to Z-Wave Device

menu when

QOLSYS CONFIDENTIAL AND PROPRIETARY PAGE 94 OF 170

6:41 PM HO° LO° 06/03/16 Check the boxes next to the device(s) you want to delete Light 2 Light Touch 3 Light Bedroom Light "Delete Failed 4 Door Lock Front Door **Device From** 5 Thermostat Thermostat Panel"

Delete

• • +

Deletes Z-Wave device from the panel. Before adding the device to another network see instructions on how to "Exclude" a Z-Wave device. Only allows a Node ID to be deleted if it has failed and is no longer communicating.

DELETE FAILED DEVICE

Z-WAVE DEVICES





Touch "Delete"

Z-WAVE DEVICES



Deletes all Z-Wave devices from the panel and resets the panel's Z-Wave Touching "Remove All Devices" controller. brings a confirmation pop-up asking you to confirm your 6:42 PM H_{0°} decision to remove all devices. 1 0° 06/03/16 If this controller is the primary controller for your network, resetting it will result in the **REMOVE ALL DEVICES** ADD DEVI MOVE ALL nodes in your network being DEVICES orphaned and it will be This function will remove all Z-Wave devices from the network. Are you sure 6 you want to continue? necessary after the reset to exclude and re-include all of Z-WAVE SETT ET AS SIS NO the nodes in the network. This procedure will send a "Device Reset Locally" to all Z-Wave devices in the IQ Hub's Lifeline Group (Group 1).

Johnson ∭ Controls

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Manually change Z-Wave associations for specific devices. 1. Select the Z-Wave device you would like to associate with another by _ touching "View" H 64° 1.13 PM 10/07/16 2. Select "Edit" 3 Bedroom Light View 3. "Check" the boxes next to each 4 Downstairs Light _H 64° 1.15 PM device that you would like to 10/07/16 associate with. Then select "Save" 5 Hallway Light 1 Panel Panel 6 Upstairs Thermostat Note: The IQ Hub supports 2 Liaht Family Room Light Lifeline in Group 1 to send out 4 Light Downstairs Light 7 Downstairs Thermostat Device Reset Locally when it has 5 Light Hallway Light 6 Thermostat Upstairs Thermostat been associated to another Z-7 Thermostat Downstairs Thermostat Wave Plus device. This is triggered Save when "REMOVE ALL DEVICES" is • • + used

VIEW/EDIT ASSOCIATIONS

Johnson 姚 Controls

Z-WAVE DEVICES

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Z-WAVE DEVICES

Z-WAVE SETTINGS

Z-Wave Settings allow an installer to set a maximum number of Z-Wave devices allowed on the IQ Hub in all categories and to control other Z-Wave settings.

	Device	Default	Maximum Number Supported
	Thermostats	10	Maximum number of supported Thermostats is 10
	Smart Sockets*	15	Maximum number of supported IQ Smart Sockets is 15
	Lights	80	Max number of supported Z-Wave light modules is 80
	Door Locks	20	Maximum number of supported Z-Wave Door Locks is 20
	Other Z-Wave Devices	21	Maximum number of misc Z-Wave devices is 21
	Garage Doors	6	Maximum number of Garage Doors is 6
N	OTE: This feature has n	ot been evaluated	by UL/cUL. This is a supplementary functionality that will not interfere

NOTE: This feature has not been evaluated by UL/cUL. This is a supplementary functionality that will not interfere with the minimum mandatory operation of the life safety and burglary protection of the alarm system control unit. UL Note: Additional Z-Wave devices other than what has been indicated as maximum limits have not been evaluated by UL/cUL.





COWAVE Z-WAVE DEVICES

Z-WAVE SETTINGS

* Additional option available only through the Dealer Code.





Swipe down

for access



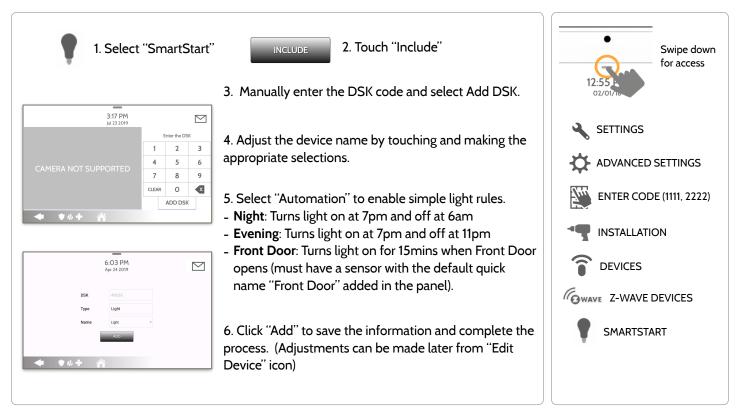


Z-WAVE SETTINGS

Setting	Default	Description
Allow Master Code Z-Wave Settings	Disabled	Allow Master User Code to access Z-Wave Settings
Allow Master Code Z-Wave Management	Disabled	Allow Master User Code to access Z-Wave Devices (Add, Edit, Clear, Delete Failed Device, Remove All Devices & View/Edit Associations)
Access to Automation	Enabled	When enabled it allows the ability to apply simple automated actions to lights and switches directly from the panel
Z-Wave	Enabled	Activate or deactivate the Z-Wave radio. Please use this procedure only when the controller (panel) is missing or inoperable
Advanced Z-Wave Settings	Disabled	 When Advanced Z-Wave Settings is enabled the following new icons will appear on the Z-Wave Devices page: Continuous Add Devices: Activates an "always listening" enroll mode. Include one Z-Wave device after another. When complete you can edit the device(s) with a custom name Replace Failed Node: Allows a node that has failed to be replaced with a new device using the same node ID Manage Devices From Secondary Controllers: Allows secondary controllers to manage devices on the network
		 Controller Shift: Shifts the primary controller from IQ Hub to another controller Add/Remove Controller: This icon acts like an "Add/Remove" button when pairing the IC Hub into another network

Z-WAVE DEVICES

SMARTSTART





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Z-WAVE DEVICES

PROVISIONING LIST

490

Provisioning List

Devices added via SmartStart will show up in the provision list. This list will show the network status of those devices. Once a devices reaches the "Included" state on the panel, it can no longer be deleted using the trash can method and must follow standard clearing process.

			6:02 PM Apr 24 2019		\square
				NETWORK STATUS	
036	Light	Light		Not in network	Ē
•	•	+			

NETWORK STATUS:

Not in network: When a device has been paired but has not yet been plugged in it will show Not in Network. These devices can also be deleted using the trash can.

Started: Once the device has been paired and then plugged in, it will start the inclusion process with the panel and run in the back ground.

Included: When a device has completed the inclusion process it will then show as "included" in the provisioning list and at that point the panel's UI will reflect the included devices.





BLUETOOTH DEVICES

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Bluetooth Devices

Add, Edit, Delete and Configure a Bluetooth Device. Bluetooth disarm supported via a mobile device. Bluetooth Chime, annunciation and 2 Way Voice supported on Anker 3102, 3108 or 3109 Bluetooth speaker.



Add Device

BLUETOOTH DEVICES

BLUETOOTH DEVICES

Pair up to 5 mobile Bluetooth devices.



Edit Device

Make changes to existing Bluetooth devices.



Delete Device Delete a paired Bluetooth device



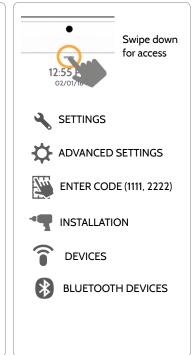
Remove All Devices Removes all paired Bluetooth devices at once.

Settings

Toggle Bluetooth on/off, adjust Bluetooth disarm settings and change Bluetooth disarm timeout (1,5,10,20 & 30mins).

Add Speaker

Pair an Anker a3102, 3108 or 3109 Bluetooth speaker with the panel for remote voice annunciations, chimes and twoway voice.







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1. Select "Add Device" 4:14 PM \bigtriangledown L 64° Kevin Woodw BLUETOOTH PAIRING REQUEST Device Kevin Woodworth Pairing code 388849 → H 101° L 64° 4.09 PM \square Jul 23 2019 Partition Access MAC PARTITION1 Name PARTITION2 PARTITION3 Disarming Allow Disarming PARTITION4 • • +

2. Open the Bluetooth page on your mobile device. The panel will search for all available and in range bluetooth devices.

Select the correct device from the list on the panel and ensure the pairing code matches that on your mobile device.

4. Touch "Pair" on the panel first, and then on your mobile device.

5. Choose whether to allow disarming or not, and select the Partition to be disarmed (if Partitions are enabled).

6. Your mobile device will now show under the "Paired Devices" list on the panel.

NOTE: Your phone may show the IQ Hub as "Not Connected". This is normal

BLUETOOTH DEVICES

ADD DEVICE



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BLUETOOTH DEVICES

EDIT DEVICE

H 64[°] 11:32 AM L 41 10/07/16 9 D4:F4:6F:27:35:57 Blakeney's iphone 6 7 D0:03:4B:C0:FA:EB Kevin Woodworth's iPhone 4:04 PM \bowtie Jul 23 2019 Partition Access MAC PARTITION1 Name PARTITION2 PARTITION3 Allow Disarming Disarming PARTITION4 **Disable Disarming** SAVE

1. Select the pencil next to the device you would like to edit.

> 2. Select whether or not you would like to allow a device to disarm the panel when in proximity.

> > 3. Select which Partition you would like the device to disarm.

> > Note: This option is only available when "Partitions" are enabled. A device can only be assigned to one Partition at a time.



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11:59 AM 1. Select the check box next to the H 64° L 41° 10/07/16 device you would like to delete. \checkmark D4:F4:6F:27:35:57 Disconnected Blakeney's iphone 6 2. Select "Delete" at the bottom of D0:03:4B:C0:FA:EB Connected Kevin Woodworth's iPhone the page. 12:00 PM H 64° L 41° 3. Select "OK" to confirm and 10/07/16 delete the device. Delete $\overline{}$ one 6 / DELETE DEVICE • • + rth's iPhone Do you want to delete Blakeney's iphone 6 device ? Delete

DELETE DEVICE

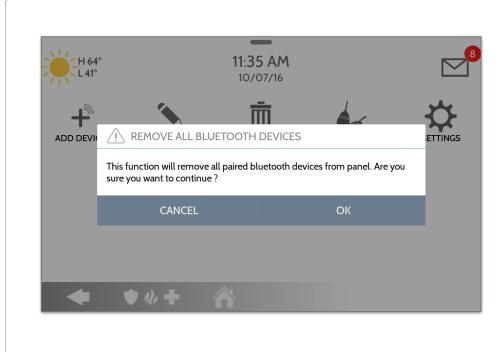
BLUETOOTH DEVICES



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BLUETOOTH DEVICES

REMOVE ALL DEVICES



To delete and remove all enrolled Bluetooth devices at once, select "Remove All Devices".

Next select "OK" to confirm you would like to delete.



Select or un-select this box to enable or disable the ability to disarm the panel via Bluetooth. To change this on an individual level you must edit the specific device.

BLUETOOTH DISARM TIMEOUT:

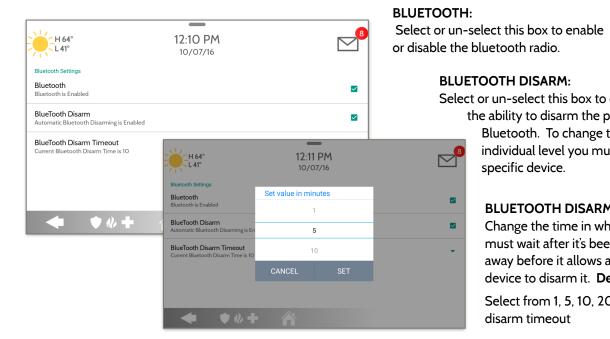
Change the time in which the panel must wait after it's been armed to away before it allows a bluetooth device to disarm it. Default 10 min

Select from 1.5.10.20 or 30 minute

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SETTINGS

BLUETOOTH DEVICES





BLUETOOTH DEVICES



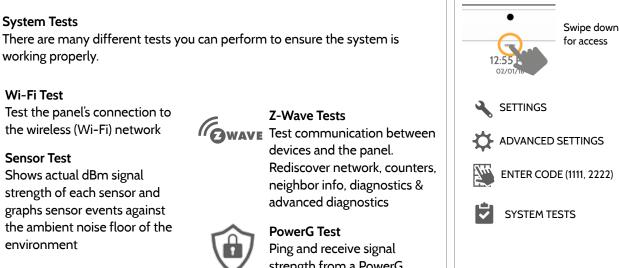
ADD SPEAKER

*	1. Select "Add Speaker" 2. Initiate Bluetooth pairing from the speaker.
H 92° L66° Available devices Anker SoundCore	3. Touch the correct device from the list on the panel to begin the pairing process.
	4. Once paired, a pop up showing "Bluetooth Device Added Successfully" will appear. Touch "OK" to confirm.
	5. Your speaker will now show under the "Paired Devices" list on the panel.
ADD BLUETOOTH DEVICES	
Bluetooth Device Added Successfully	
ОК	NOTE: Only "Anker" brand (models 3102, 3108 or 3109) speakers are supported.





SYSTEM TESTS





VI F

Cellular Test

Test the panel's connection to the cellular network and Alarm.com

strength from a PowerG sensor.

ENTER CODE (1111, 2222)

SYSTEM TESTS Johnson Controls SYSTEM TESTS **FIND IT** Swipe down **Dual Path Test Daughter Cards Test** for access WFI Lte Verifies the Wi-Fi path is Tests the integrity of the installed daughter cards connecting to Alarm.com 2 SETTINGS Panel Test Runs through a complete test Ċ ADVANCED SETTINGS of the panel's running Juu ENTER CODE (1111, 2222) processes V SYSTEM TESTS

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SYSTEM TESTS

WI-FI TEST

₩ H0°

Wi-Fi Test

 \leq

The Wi-Fi test checks the IQ Hub's connection to your network (router). Before running this test, be sure to connect the panel to the network. See "customization" section for directions on connecting to Wi-Fi.

Wi-Fi Test Result :- UnKnown Time :-UnKnown Status :- UnKnown Status :- UnKnown Market Miller Status :- UnKnown

4:08 PM

06/02/16

a successful test will result in a "pass" and indicates the date and time of the test along with connection speed. To perform a Wi-Fi Test, touch the "Run" button.



NOTE: If test fails, please check your Wi-Fi settings.







SENSOR TEST

Sensor Test

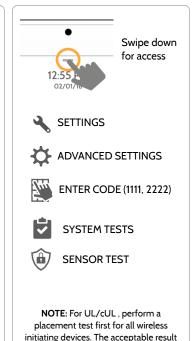
Shows actual dBm signal strength of each sensor and graphs sensor events against the ambient noise floor of the environment. Also displays the traditional packet count method.

ZONE	NAME	AVERAGE DBM	LAST EVENT RESULTS (I	DBM) (PACKETS)	\mathbf{r}	\otimes
1	Back Window	Strong (-43)	Strong (-47)	Perfect (16)		Ň
2	Front Window	Strong (-31)	Strong (-33)	Perfect (8)		Ň
3	Back Door	Good (-55)	Good (-55)	Excellent (7)		r. N
	Refer to p	age 99 for the s	ensor packet re	sults tabl	е.	

The Advanced Sensor Test shows a summary page of each sensor paired to the panel along with the average dBm level , the last event's dBm level and how many packets were received from the sensor.

Select the graph icon to the right of each sensor to view an individual sensor's graphed signal strength in real time.

FIND IT



shall be "Excellent".

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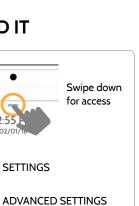
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SENSOR TEST Noise Floor

From the Sensor Test page select the "Settings" cog to view the "Real Time Noise Floor". The noise floor represents the dBm threshold at which the panel can no longer sense signals from sensors.

Lower dBm levels mean there is less noise \dot{x} (X) or interference on the sensor's specific Strong (-61) Clear All Sensor Data 1 Versa operating band or frequency. Real Time Noise Floor Strong (-67) 2 Flow \otimes Real Time Noise Floor 4 Front Door Strong (-59) $J_{\mu\nu}$ -80 ~ -90 dBm -100 -110 -120 **NOTE:** Manufacturer recommended 319 MHz signal to noise ratio is min 7dB





ENTER CODE (1111, 2222)

SYSTEM TESTS

SENSOR TEST

SYSTEM TESTS





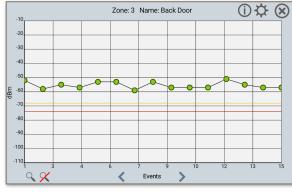
SENSOR TEST

- Colored points on the graph represent each state change or supervisory signal transmitted from a sensor to the panel. Points are colored based on frequency.
- The YELLOW line represents a dBm level where signal strength is "Poor" and potential RF failures could occur. This line dynamically adjusts to 12 dBm above the ambient RF noise floor in the environment.
- The RED line represents a dBm level where signal strength is "Critical" and RF failures are likely. This line dynamically adjusts to 6 dBm above the ambient RF noise floor in the environment.

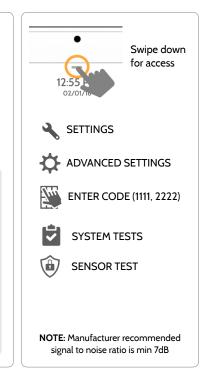
TROUBLESHOOTING:

If a sensor falls below the yellow line, try changing it's orientation (vertical/horizontal), move the sensor to a different part of the door/window or adjust the panel's RF pigtail antenna.

Then re-test to see the if the result improved.



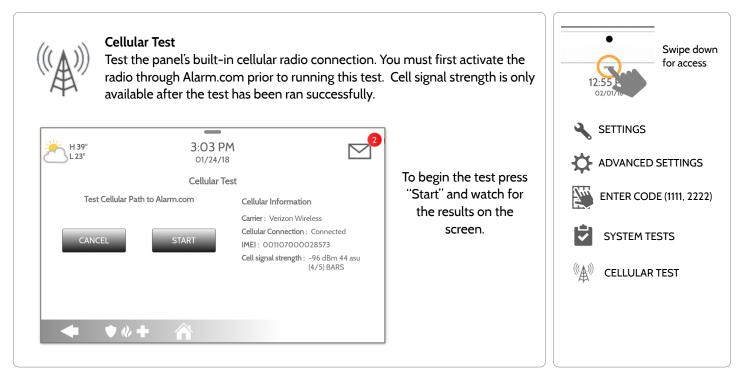
FIND IT



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CELLULAR TEST



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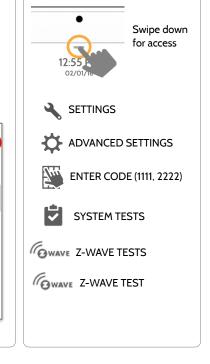
SYSTEM TESTS

Z-WAVE TESTS

Z-Wave Test Test the connection between the panel and enrolled Z-Wave devices to ensure they are communicating properly.

To perform a Z-Wave Test, touch the "Run" button. A successful test will result in a "Pass" and a time stamp.

			6:46 PM 06/03/16		
ID	TYPE	STATUS	TEST TIME	RESULT	
2	Light	Normal			Run
3	Light	Normal			Run
4	Door Lock	Unreachable	е		Run
NOTE: If	a test fails, relocate d	levice, change batte	eries and/or rediscove	r network.	

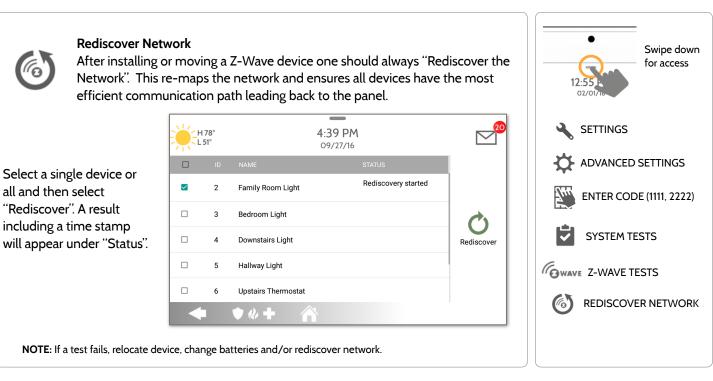






Z-WAVE TESTS

FIND IT

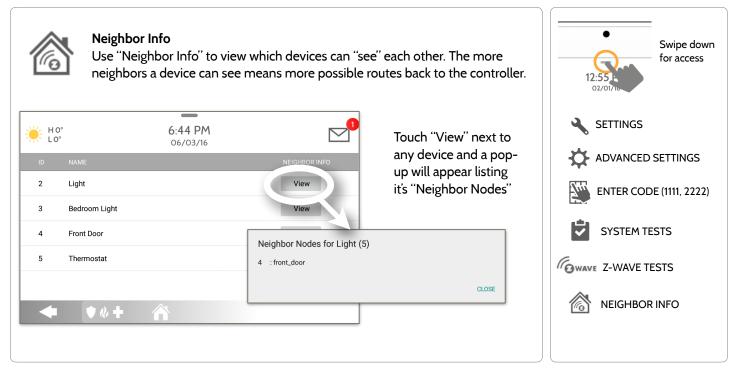


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Z-WAVE TESTS

FIND IT

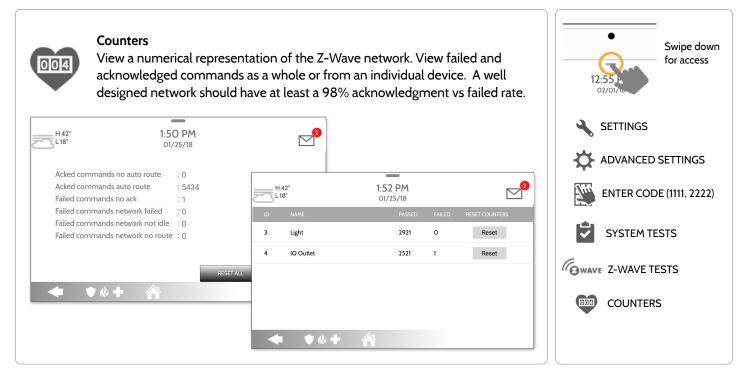


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Z-WAVE TESTS

FIND IT



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Z-WAVE TESTS

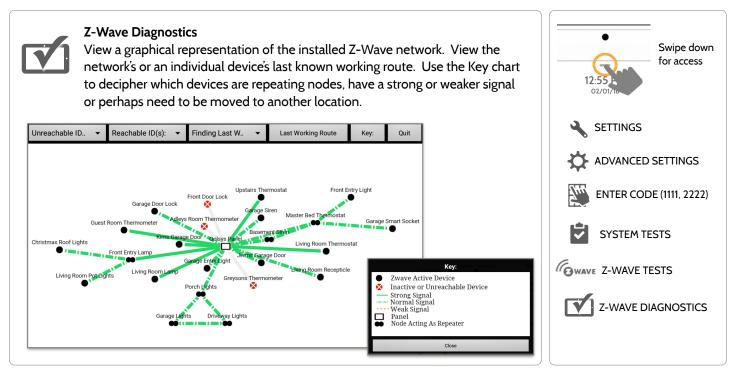
COUNTER	DESCRIPTION		
Acked commands no auto route	Command was successful and acknowledged by the sensor; it did not use the normal automatic Z-Wave network route to execute the command for this device (command was re-routed on the Z-Wave network in order to succeed)		
Acked commands auto route	Command was successful and acknowledged by the sensor; it used the normal automatic Z-Wave network route to execute the command for this device.		
Failed commands network failed	Not possible to transmit data because Z-Wave network is busy (jammed). Command failed to execute.		
Network failed	Not possible to transmit data because Z-Wave network is busy (jammed). Command failed to execute		
Network not idle	Auto-routed command failed because Z-Wave network is not yet stable. Command failed to execute.		
Network no route	Auto-routed command failed because there is no successful Z-Wave network route to the device. Command failed to execute		
Reset All	Resets all counters back to O as to better diagnose the network		
Details	Shows individual device details such as passed and failed commands. Here you can also reset an individual device's counter		

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Z-WAVE TESTS

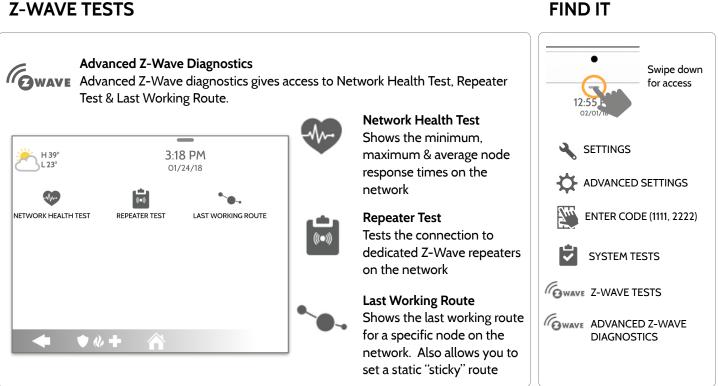
FIND IT



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Z-WAVE TESTS

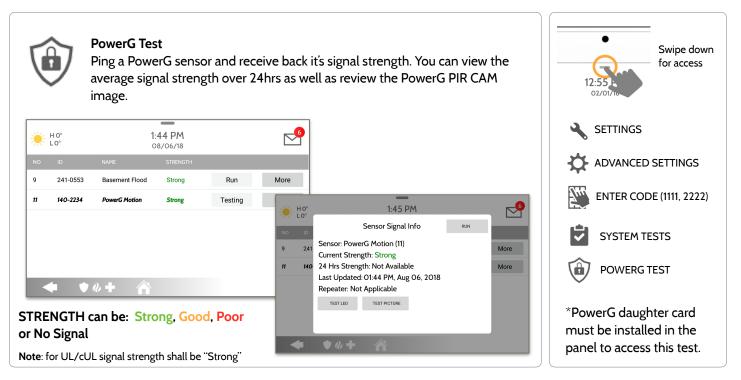


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POWER G TEST

FIND IT

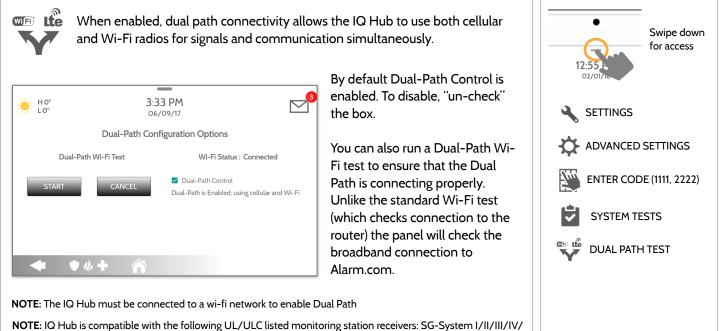


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DUAL PATH TEST

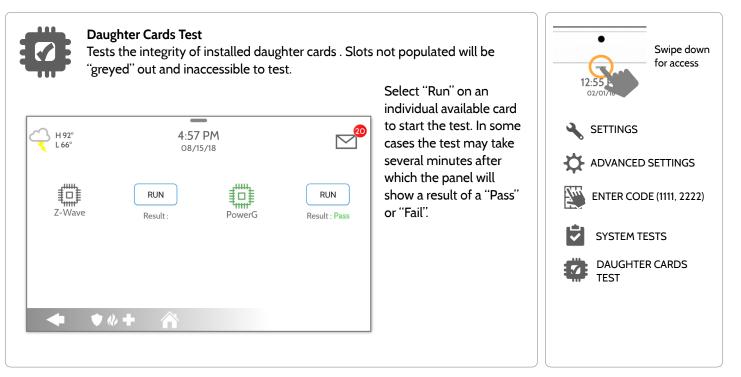
FIND IT



5. Wi-Fi is for supplemental use only for UL/cUL



DAUGHTER CARDS TEST



Panel Test

1:14 PM 09/28/16

Pass

Pass

Fail

Pass

1

RUN ALL

• • +



PANEL TEST

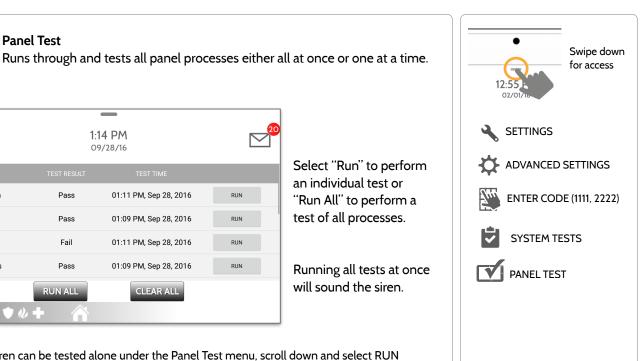
H 80° L 55°

Arm-Disarm

Camera

Photos

Help Videos



Note: The Siren can be tested alone under the Panel Test menu, scroll down and select RUN

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CUSTOMIZATION

User Type Access Level Partition Access All settings as well as Master Reset and access to change Dealer Dealer All Partitions Contact information All Partitions Installer All Settings All user-related features and Settings, including connecting to All Partitions Master Wi-Fi, User Management, Sound App and Sensor customization A user may only access User Arming/Disarming their assigned partition A user may only access Arming/Disarming Guest their assigned partition Each partition gets a Disarming (but sends duress signal to security provider). Duress unique Duress Code

The IQ Hub can hold up to 242 user codes. Only Dealer, Installer and Master user codes can can create or edit user codes. Once a code is created, all information can be edited, except for the "User Type".

USER MANAGEMENT

CUSTOMIZATION



Swipe down

for access



ADVANCED SETTINGS

ENTER CODE (1111, 2222)

LUSER MANAGEMENT

NOTE: When "6 Digit User Code" is ENABLED a "OO" will be appended to all existing 4 digit codes

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Contact Info

Here you can customize the Dealer Contact info.

Edit Dealer Name. Email. Phone #, Zip Code, Website and Tag lines

Dealer Branding

On-Screen Branding Load a Custom Logo, Dealer Billboard images or add/ replace Help Videos via the Panel Access Point

Swipe down for access SETTINGS **A** ADVANCED SETTINGS ENTER CODE (2222) DEALER BRANDING *This page available only through the Dealer Code

FIND IT





CUSTOMIZATION

DEALER BRANDING*







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DEALER BRANDING*

CUSTOMIZATION

Contact Info

Customize your contact info and determine what you'd like to be displayed in "Contact Us", located on the right side of the "Home Screen" header. Dealer Contact fields allow up to 50 characters, Tag Line 2 allows up to 50.

3:52 PM H 43 Example: ADVANCED SETTINGS 12/18/18 **ABC Security** ENTER CODE (2222) jondoe@abcsecurity.com Dealer Name ABC Security Email **Automation & Security** Tag Line 1 Automation & Security Web www.ABCsecurity.com Atlanta's Preferred DEALER BRANDING Installation location ZIP 84008 Atlanta's Preferred Tag Line 2 798-123-4567 Code CONTACT INFO jondoe@abcsecurity.com Phone (798) 123-4567 ABCSecurity.com 84008 *This page available only through the



SETTINGS

Dealer Code

a



Swipe down

for access



CUSTOMIZATION



DEALER BRANDING*

FIND IT



On-Screen Branding

Load a Custom Logo, Dealer Billboard images or add/replace Help Videos via the Panel Access Point. Dealer Billboard (photo frame) images cannot be deleted by an end user.

₩*** H 34° ***** L 18°	1:55 PM Feb 22 2022	
Click button below to st	tart server	START
the Wi-Fi Access Point	ter the SSID and Password below to connect to Password: QP4001X092141J00290BLK	
◆ ◆ «	+ 🏠	

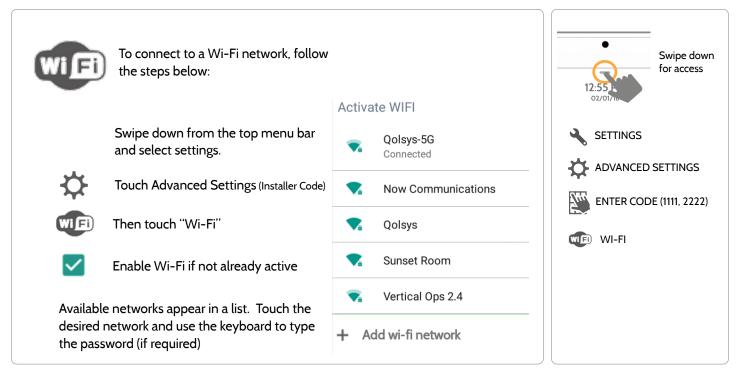
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transfer them to the Panel.

shown on the screen.

screen.

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CONNECTING TO WI-FI

CUSTOMIZATION



CUSTOMIZATION

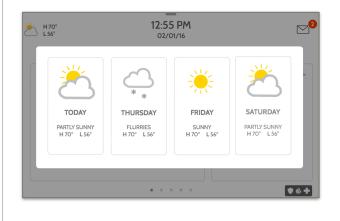


WEATHER

TODAY'S FORECAST

Today's forecast is displayed on the weather icon with a graphical representation of precipitation and High and Low temps.

H 36° L 20°



4-DAY FORECAST

Touch the weather icon to get a 4-day forecast. This information is updated once daily via Alarm.com services. (Will not display or update weather connected to wifi only)

LOCATION

Weather reporting is based on location as indicated by the zip code entered into Alarm.com when the account is created.

FIND IT

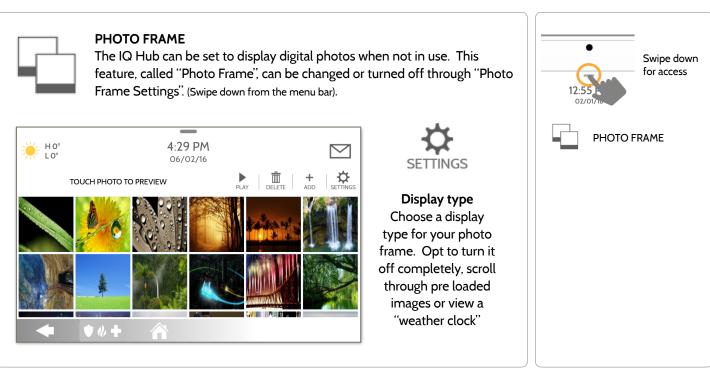


Touch the weather icon in the upper left corner of the header to reveal a 4 day forecast

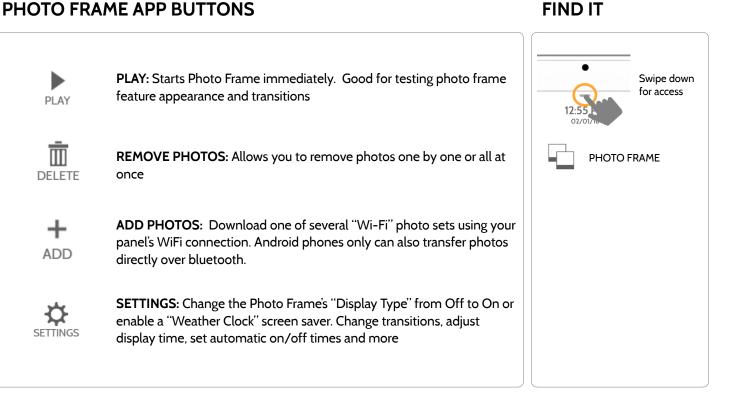
CUSTOMIZATION



PHOTO FRAME



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CUSTOMIZATION



Default Description ltem Swipe down for access How long each image will show before transitioning to the next image in Duration 1 minute the library (1, 2, or 5 minutes) Fffect Dissolve Transition effect used between each image (fade to black, dissolve) Shuffle Enabled Display pictures in random or sequential order PHOTO FRAME Choose what to display on the screen when the panel is not in use. (Off, Display Type Photo Frame PHOTO FRAME SETTINGS Photo Frame and Weather Clock) Photo Frame Choose the amount of time to wait after the last touch before starting the 10 minutes Start Time selected display type. (1, 5, 10, 15, 20, 25, or 30 minutes) Determines the time when the display, voices or chimes shutdown Nighttime Mode completely. (Use this feature to turn off the LCD, voices and/or chimes at 11:00 PM Start Time night) Determines the time when the display, voices or chimes "wake up" after Nighttime Mode sleeping. (Use this feature to turn the LCD, voices and/or chimes back on 6:00 AM End Time in the morning) Nighttime Mode Choose what the Nighttime Mode Start/End times have the ability to Display control (Display, Voices and/or Chimes) Settings

PHOTO FRAME SETTINGS

CUSTOMIZATION





MAINTENANCE

QOLSYS CONFIDENTIAL AND PROPRIETARY PAGE 139 OF 170

NOTE: Proper maintenance requires prompt administration of any software updates

MAINTENANCE

UPGRADE SOFTWARE

_

Description work for updates and install new software remote software uploading is not allowed Panels' built-in Access Point to install new software	12:55 02/01/15 SETTINGS
remote software uploading is not allowed	
Panels' built-in Access Point to install new software	SETTINGS
	ADVANCED SETTINGS
onding to a specific software update on the server	ENTER CODE (1111, 2222)
el to check for new software in the background and local storage so that it can be applied at a later date. Defa	
erval the IQ Hub will look for software update. Available ry Night, Once a Week, Once a Month. Default Once a	
	· · · · · · · · · · · · · · · · · · ·





MAINTENANCE

3- Touch "Upgrade Software"

the update and automatically restart.

free from bugs.

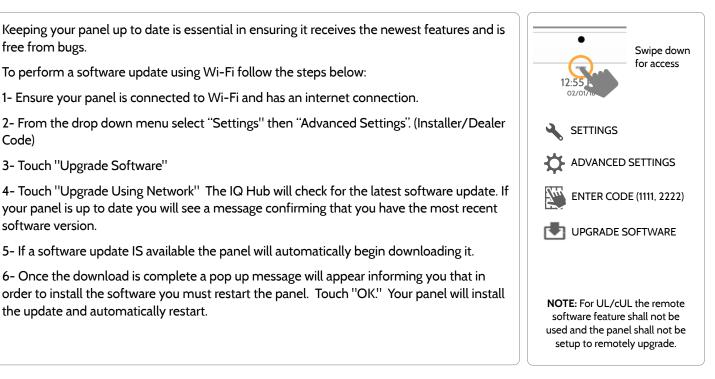
software version.

Code)



UPGRADE SOFTWARE USING WI-FI

FIND IT



To perform a software update using Wi-Fi follow the steps below:

1- Ensure your panel is connected to Wi-Fi and has an internet connection.

Keeping your panel up to date is essential in ensuring it receives the newest features and is

2- From the drop down menu select "Settings" then "Advanced Settings". (Installer/Dealer

your panel is up to date you will see a message confirming that you have the most recent

5- If a software update IS available the panel will automatically begin downloading it. 6- Once the download is complete a pop up message will appear informing you that in order to install the software you must restart the panel. Touch "OK." Your panel will install

MAINTENANCE



UPGRADE SOFTWARE USING ACCESS POINT

Most updates are downloaded over Wi-Fi, but in the event that Wi-Fi is not present at the installation site, a Panel can be updated with files transferred from a local device (phone, tablet, computer, etc) via the built-in Panel Access Point.

To perform a software update using the Panel Access Point follow the steps below:

1- Download the needed software update files from the Dealer Portal to your device (phone, tablet, computer).

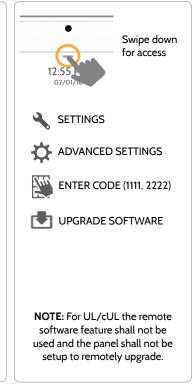
2- Go to Settings/Advanced Settings/Upgrade Software then touch "Upgrade Using Access Point".

3- Scan the QR Code with your phone camera or manually connect to the Panel AP with the SSID and Password shown on the screen.

4- Press "Start" to begin the local server session, then from your device scan the second QR code or navigate to the "https" site shown on the Panel screen.

5- Follow the prompts on your device screen to select the correct files and transfer them to the Panel.





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AUTOMATIC BACKGROUND CHECK AND DOWNLOAD

Turning on Automatic Background Check & Download enables the panel to check for a new software version based on the Automatic Check Interval (default is Once a Week).

From the drop down menu select "Settings"

"Advanced Settings". (Installer/Dealer Code)

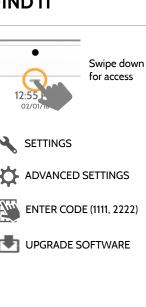
Touch "Upgrade Software"

MAINTENANCE

Make sure the "Automatic Background Check and Download" button is checked.

Change update interval by selecting "Automatic Check Interval"

QUESTIONS? Contact us at techsupport@qolsys.com

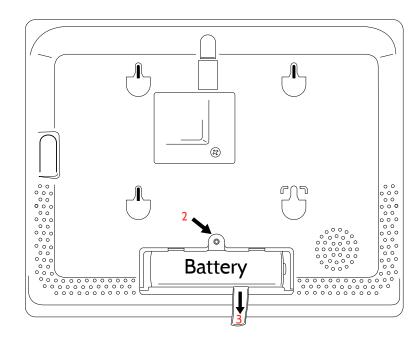




MAINTENANCE



BATTERY REPLACEMENT



- Power down panel: Go to Advanced Settings and enter the Installer/Dealer/Master code, then select "Power Down"
- 2. **Remove Battery Door:** Remove the panel from the backplate or table stand and then use a small screwdriver to remove the plastic door covering the battery.
- 3. **Remove Battery:** Pull the fabric tab that is located under the battery to remove it from the panel.
- 4. **Install New Battery:** Install the new battery paying careful attention to polarity and being sure to place the fabric pull tab under the battery to make future removal easier.

Re-install Battery Door and screw, then remount to backplate or table stand.

CAUTION: Do **NOT** use a screwdriver or anything sharp that could puncture the battery.

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BATTERY REPLACEMENT

WARNING: Caution – The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 60°C, or incinerate. Replace battery with GUANGZHOU GREAT POWER ENERGY&TECHNOLOGY CO LTD, Ltd., Model ICR 18650 only. Use of another battery may present a risk of fire or explosion.

WARNING: Dispose of used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire. Dispose of used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.



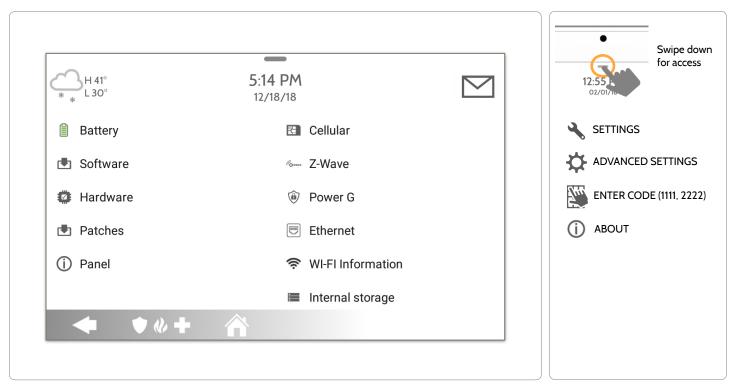
TROUBLESHOOTING

TROUBLESHOOTING

Johnson ∭ Controls

ABOUT





QOLSYS CONFIDENTIAL AND PROPRIETARY PAGE 146 OF 170



ABOUT

ltem	Description		
Battery	Battery Status: Disconnected, Charging, Full	Battery Level: Displayed in %	
Software	Software Version: Current Software Version	Linux Version:	
Soltwale	Build Number:	Android Version:	
	Hardware Version:		
	Manufacturer: Qolsys Inc. San Jose, CA	System Serial #:	
Hardware	PCA Serial #:	RF PIC Version:	
	Part #:	EEPROM Format Version:	
	System Configuration:		
Patches	Patch Description: Details of all previous patches applied	Last Upgrade Date:	
Panel	MAC Address:	Panel Up Time:	
	Carrier: Current Carrier	IMSI: Carrier Sim Information	
Cellular	Cellular Connection: no signal, registered etc	ICCID: Carrier Sim Information	
Cellular	Cellular Signal Strength: x/6 bars, (xx/xx) internal	Baseband Version:	
	IMEI: Alarm.com radio number	Configuration Version:	

TROUBLESHOOTING



ABOUT

ltem	De	Description		
Z-Wave	Home ID: Z-Wave Firmware Version: Z-Wave API Version:	Manufacturing ID: Product Type: Product ID:		
PowerG	Modem Firmware Version Modem Build Number Radio Firmware Version	Radio Software ID PowerG RF Band		
Wi-Fi Information	Connection: Connected/Disconnected IP Address: Panel's IP Address when connected SSID: Network panel is connected to	Speed: Connection speed shown in Mbps Internet: Can the panel communicate outside the home. Available/Unavailable		
Internal Storage	Total Space: Total space shown in GB Available Space: Space available for media Photos: Breakdown of space used for photos	Videos: Breakdown of space used for videos Logs: Space used for storing panel logs		

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QUESTIONS? Contact us at techsupport@qolsys.com

POWER DOWN

DO NOT remove all power without following the steps below. In the event of needing to move the panel from one location to another it is safe to unplug the power supply while leaving the battery plugged in.

- 1. From the drop down menu select "Settings".
- 2. Select "Advanced Settings" then enter your installer code
- 3. Select "Power Down"
- 4. Wait for panel LED to turn off

TROUBLESHOOTING

5. Disconnect the power

IMPORTANT: Failure to perform these steps in the proper sequence may result in data corruption and/or panel failure.



Johnson 🗯 Controls



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If the panel is experiencing difficulties you can often resolve it by resetting the operating

- 1. From the drop down menu select "Settings".
- 2. Select "Advanced Settings" then enter your installer code
- 3. Select "Panel Reboot"

PANEL REBOOT

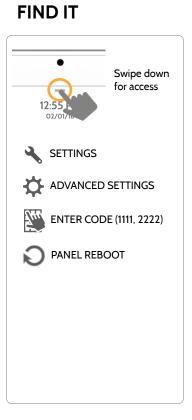
system.

4. Wait for the panel to restart

TROUBLESHOOTING

IMPORTANT: Failure to follow these steps properly may result in data corruption and/or panel failure.

QUESTIONS? Contact us at techsupport@qolsys.com

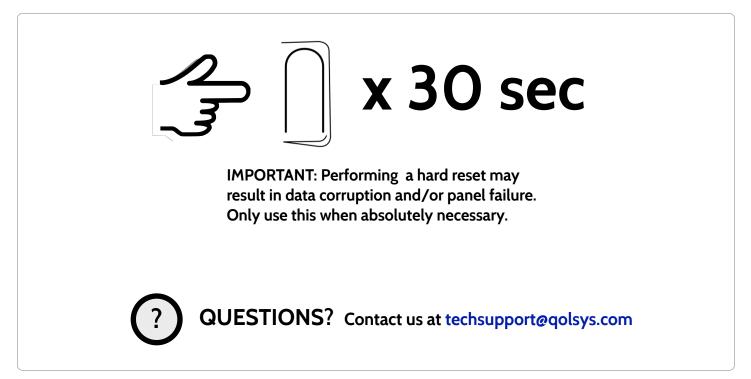




TROUBLESHOOTING



HARD REBOOT



QOLSYS CONFIDENTIAL AND PROPRIETARY PAGE 151 OF 170



PANEL TEST TROUBLESHOOTING

If you run a panel test and it fails, use the following steps to fix the issue.

Test	Description	If fails:
Arm-Disarm	Tests the arm/disarm operation	Reboot panel, run test again then if necessary perform a master reset and repeat test
Photos	Checks that photos are loaded in the photo frame app	1) Go to Settings -> Photo Frame -> Add Photos 2) Add photos from Wifi photo sets
Help Videos	Checks help videos are installed in the panel.	
Battery	Checks panel battery health	 Make sure the battery is connected If test continues to fail, replace the battery
LED Green/Red	Check panel LED operation	1) Reboot the panel and run the test again 2) Master reset and repeat test



PANEL TEST TROUBLESHOOTING

Test	Description	If fails:
Panel Tamper	Check panel Tamper state	 Check to ensure backplate is secure and installed properly. Repeat test.
AC Status	Check panel AC power status	 Inspect the wire leads are secure and properly connected. Repeat test.
Internet Connection	Check panel's Internet connectivity	 Go to Wifi Setting page, Enable Wifi and connect to a Wifi Network Make sure Internet is available on the home router. You can check internet information in the "About" section. Contact your network service provider on continued internet connectivity failure
Wi-Fi	Tests whether panel is connected to Wifi network	 Go to Wifi Setting page and enable wifi. Connect to a Wifi Network
Upgrade Service	Checks that the panel can receive updates from the Qolsys servers	1) Verify internet and Wi-Fi connections.
Z-Wave	Check panel's Z-Wave module operation	1) Reboot the panel and repeat test. 2) Master reset and repeat test
Sirens	Check that the panel's siren is functioning properly (Burglar, Auxiliary, Fire & CO).	1) Verify the siren is plugged in



LEGAL



UL/cUL RESIDENTIAL FIRE & BURGLARY INSTALLATIONS

This product has been tested and found in compliance with the following standards: UL1023 Household Burglar-Alarm System Units, UL985 Household Fire Warning System Units, ULC-S545 Residential Fire Warning Systems Control Units and ULC-S304 Security Level I Control Units, Accessories and Receiving Equipment for Intrusion Alarm Systems. For ULC Installations refer to the Standard for the Installation of Residential Fire Warning Systems, CAN/ULC-S540:

- Use only the compatible power supply referenced in this Installation Manual. 24 h standby power must be provided for fire applications and 4h for burglary only applications (AC trouble must be transmitted to SRC within 60 minutes).
- Priority of signals on the Panel is set as Fire, CO, Burg, Panic, Aux and then Flood.
- Use at least one compatible listed Smoke Detector for Fire Installations.
- The entry delay shall not exceed 45 sec (UL) and 180 sec (ULC Security Level 1).
- The exit delay shall not exceed 120 seconds (UL).
- The control panel supports the Temporal 3 pattern for fire alarm notification
- Test transmission cycle shall be set for 7 days transmission for Residential Fire applications, or 30 days for Residential Burglary only applications.

Note: For ULC Residential Fire and Burglary (ULC-S304 Level I) installations set for daily test transmission, Wireless Supervision window shall be set to 4 hours for UL/ULC Residential Fire Installations. Wireless Supervision window shall be set to 24 hours for Residential Burglary Installations only. RF Jam detection shall be enabled.

For UL 985 6th Ed. Compliant installations using also the Wi-Fi connection, ensure Power for network equipment such as hubs, switches, routers, servers, modems, etc., is backed up or powered by an uninterruptible power supply (UPS), standby battery or the control unit, capable of facilitating 24 h standby.



UL/ULC COMMERCIAL BURGLARY INSTALLATIONS

This product has been tested and found in compliance with the following standards: UL2610 Central Station Burglar-Alarm Units and ULC-S304 Control Units, Accessories and Receiving Equipment for Intrusion Alarm Systems, Security Levels I-II.

The subscriber control unit shall provide for the connection of protective wiring, conductors, and attachments in accordance with the Standard for Installation and Classification of Burglar and Holdup Alarm Systems, UL 681 in USA and in accordance with ULC-S301, CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations and ULC-S302 Standard for the Installation, Inspection and Testing of Intrusion Alarm Systems, in Canada.

Note: The product is not intended for installation outdoors or outside the protected premises.

This product is UL/ULC listed under the following categories: AMQE/AMCX7 Central Stations Alarm Units, UTOU/UTOU7 Control Units and Accessories, Household System Type NBSX/NBSX7 Household Burglar Alarm System Units. For further information on this product's listings please also refer to the official listing guides published at the UL website (www.ul.com) under Online Directory Section.

Programming:

The notes in the Installation Manual describing the system configurations for UL/uLC listed installations shall be implemented. RJ Jam detection shall be enabled. Panel Siren is for supplementary use.

Use only PowerG sensors listed in "Supported PowerG Sensors" on page 176 of this installer manual for UL/ULC Commercial Burglary installations. Hardwire input zones cannot be used in UL/ULC Commercial Burg installations. Partitions have not been evaluated for UL/ULC Commercial Burg installations. Require valid user code to arm this system must be enabled.



UL/ULC COMMERCIAL BURGLARY INSTALLATIONS continued...

UL2610 Central Station with Standard or Encrypted Line Security Service and ULC-S304 Security Level I-II/A3 Active communication channel:

- The installation must use the integral cellular communicator, which sends events over Cellular Data Network to the compatible Sur-Gard System I/II/III/IV/5 receiver.
- The communication path supervision window is set to 180s with 90s heartbeat and the compromise detection takes place within 3 minutes. The panel is using encrypted line security AES256. NIST certificate A1552.
- Wireless Supervision window shall be enabled and set to 4hours
- Open/Closing acknowledgment shall be enabled
- For ULC-S3O4 compliant installations using also the Wi-Fi connection, ensure Power for network equipment such as hubs, switches, routers, servers, modems, etc., is backed up or powered by an uninterruptible power supply (UPS), standby battery or the control unit, capable of facilitating 24 h standby.
- The entry delay shall not exceed 60s (UL) and 60s (ULC Security Level II).
- The exit delay shall not exceed 60s (UL) and 45s (ULC Security Level II).

Note: For UL certified Commercial Burglary Central Station applications the IQ Hub provides an acknowledgment signal to the user interface to confirm that normal closing signal has been received once the system has been armed. The device causes an audible and visual indication, when it receives the acknowledgment signal transmitted from the monitoring station compatible receiver: "Panel- Arming Response from Central Station is Acknowledged"



UL/ULC COMMERCIAL BURGLARY INSTALLATIONS continued...

Protection of the Control Unit:

The local control unit and the local power supply must be protected in one of the following ways:

- The control unit and audible alarm device must be in a protected area which is armed 24 hours a day.
- Each partition must arm the area protecting the control unit and the audible alarm device power supply. This may require duplicate protection armed by each partition. Access to this protected area, without causing an alarm, will require that all partitions be disarmed.

- In all cases described above, the protected area for the control unit must be programmed as not-bypassable For installations employing packet switched (network) communications such as Cellular/Wi-Fi the following recommendations shall be followed:

- Select the Internet Service Providers that have redundant servers/systems and Back-up power.
- Routers shall have Firewalls enabled and methods to identify and protect against "Denial of Service" attacks (i.e. via "spoofing").

For UL Commercial Burglary applications the loss of communication with the monitoring station shall be treated as an alarm condition by monitoring station personnel when the burglar alarm system is in the armed state, and as a trouble condition while the system is disarmed. Packet switched data network (PSDN) interface equipment, manufactured by other than the burglar alarm equipment manufacturer, that is not provided with the burglar alarm system and/or not required for the processing of the signals shall be evaluated to the applicable requirements of the Standard for Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1, or the Standard for Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements, UL 62368-1, as communication equipment. Any network interface device which adds value or manipulates the original data packet such as changing transmissions formats, adding encryption, and the like, shall comply with the applicable requirements noted in this standard.



UL/ULC COMMERCIAL BURGLARY INSTALLATIONS continued...

User Information:

- The installer should advise the user and note in the User's Manual
- Service organization name and telephone number
- The programmed exit and entry time
- Instructions to test system weekly
- Note that the installer code cannot arm or disarm the system
- The installer should caution the user not to give system information (e.g., codes, bypass methods, etc.) to casual users (e.g., service people) and to only give out codes set to expire within 24 hours
- Identification of the conditions that might be expected to result in false alarms or impaired operation of the product(s): arming the system and not respecting the exit delay, entering the protected premises and not respecting the entry delay for disarming the system can cause false alarms.



FCC & ISED CANADA COMPLIANCE STATEMENT

This Class [B] digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe [B] respecte toutes les exigences du Réglement sur le matériel brouilleur du Canada.

IMPORTANT! Changes or modifications not expressly approved by Qolsys Inc. could void the user's authority to operate the equipment.

CAUTION! This equipment complies with radiation exposure limits set forth for uncontrolled environment. The antenna(s) used for this transmitters must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter. This device complies with Part 15 of the FCC Rules. Operation 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.



FCC & ISED CANADA COMPLIANCE STATEMENT continued...

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.



FCC & ISED CANADA COMPLIANCE STATEMENT continued...

Supplier's Declaration of Conformity #202102002 47 CFR § 2.1077 Compliance Information

Unique Identifier: Qolsys, Model QS-SRF319

Responsible Party - U.S. Contact Information

Qolsys Inc. 1900 The Alameda, 4th Floor San Jose, CA 95126

Phone: (408) 857-8415/Website: www.qolsys.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation 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.

Supplier's Declaration of Conformity #202102003 47 CFR § 2.1077 Compliance Information

Unique Identifier: Qolsys, Model QS-SRF433

Responsible Party - U.S. Contact Information

Qolsys Inc. 1900 The Alameda, 4th Floor San Jose, CA 95126

Phone: (408) 857-8415/Website: www.qolsys.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation 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.

Supplier's Declaration of Conformity #202102001 47 CFR § 2.1077 Compliance Information

Unique Identifier: Qolsys, Model QS-SRF345

Responsible Party - U.S. Contact Information

Qolsys Inc. 1900 The Alameda, 4th Floor San Jose, CA 95126

Phone: (408) 857-8415/Website: www.qolsys.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation 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.



SPECIFICATIONS

SPECIFICATIONS



Items	Parameters	IQ Hub	
Platform	Android OS	Android 7.1	
LCD Display	Size	7" LCD	
	Resolution	1024 x 600	
	RGB	24bit	
Touchscreen	Туре	Capacitive glass multi-touch	
User Codes	Up to 242	Role based (Dealer, Installer, Master, User, Guest, Duress)	
Wireless	Security R/F	PowerG 912- 915MHz. Up to 128 RF Zones	
	Z-Wave Plus	Supports up to 152 devices (80 lights, 15 Smart Sockets, 20 Locks, 10 Thermostats, 21 Misc, 6 Garage Doors)	
	Cellular	LTE (Bands 2,4,5,12,13)	
	WiFi	Wi-Fi 802.11 a/b/g/n/ac dual band 2.4/5ghz	
	Bluetooth	Bluetooth Low Energy (BLE)	
Flash Memory	Internal Storage	16GB	

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SPECIFICATIONS



Items	Parameters	IQ Hub
LED Indicator	Status LED	Green (Disarmed), Red (Armed)
Speaker	2W Mono	
Microphone	Microphone	x 1 microphone
Siren		SPL minimum 85dB for UL985
Tamper	Tamper Switch	Wall and Enclosure Tamper
Battery	Туре	Lithium Polymer 2600mAh. Guangzhou Great Power Energy & Technology CO LTD. Model ICR 18650
Buttons	Standby	Right side button used for sleep/wake, hard reboot, and clean screen cancel
Mechanical	Dimension	6.1"H x 7.7"W x 1"D (155mm x 195mm x 27mm)
Power Supply	AC/DC External Plug-in Adapter	Output: 12v 1000mA CC, Input 100-240VAC 50/60Hz. Adapter evaluated at 120vAC for UL/cUL. Sheznzhen Sure-Power Electrical CO LTD. Model SW-120100
Mount	Back Plate	Wall mount or table top (stand included)
Certification	UL/cUL/ULC	UL/cUL Residential Fire and Burglary and UL/ULC Commercial Burglary Alarm Control Unit. Compliant with standards: UL985, UL1023, UL2610, ULC-S545, ULC-S304
	FCC	2AAJXQS-IQHUB
	IC	11205A-QSIQHUB
	NOM	
Temperature	Operational	O to 49C, up to 93% relative humidity, indoor, dry ordinary locations use only
	Storage	-20 to 50C

SUPPORTED POWER-G SENSORS



Detector Type	Model
Door/Window	PG9945 ^{c/CB} , PG9307 ^{UL RB} , PG9309, PG9312 ^{UL CB}
Door/Window - Shock Sensor	PG9935 ^{UL CB}
Dual Tech (PIR+Microwave) Motion Detector	PG9984(P) ^{UL CB}
Glassbreak Detector	PG9922 ^{UL CB}
Heat Detector	PG9936H ^{UL RF}
Keyfobs	PG9929, PG9939, PG9949, PG9938 ^{UL CB}
Outdoor Motion Detector	PG9902, PG9974(P), PG9944, PG9994(P) ^{UL CB}
PIR Motion Detector	PG9904(P), PG9914, PG9924, PG9934(P), PG9862, PG9872 ^{UL CB}
Sirens	PG9901, PG9911 ^{UL RF/RB}
Smoke Detector	PG9916, PG9926, PG9936 ^{UL RF}
Wireless CO Detector	PG9913, PG9933 ^{UL RF}
Wireless Repeater	PG9920 ^{UL CB}
Vanishing Door/Window Contact	PG9303 ^{UL CB} , PG9975 ^{UL RB}
PowerG Wired to Wireless Converter	PG9WLSHW8 ^{UL RFB CB}

NOTE: Only the PowerG sensors marked with ^{UL CB} in the table above shall be used in UL/ULC Residential and Commercial Burg (UL2610/ ULC-S304 Security Level I-II) listed installations. Devices marked with ^{UL RB} in the table above shall be used only in UL/ULC Residential Burg (UL1023/ULC-S304 Security Level I) listed installations. Devices marked with ^{UL RF} in the table above can be used in UL/ULC Residential Fire (UL985/ULC-S545) listed installations.

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SUPPORTED 319 MHz SENSORS



Detector Type	Model
IQ Door/Window - S	QS1133-840 ^{UL RB}
IQ Motion - S	QS1231-840/QS1230-840 ^{UL RB}
IQ Glass - S	QS1431-840 ^{UL RB}
IQ Hardwire 16-F	QS7133-840 ^{UL RF/RB} (NO ULC)
IQ Smoke	QS5110-840 ^{UL RF}
IQ CO	QS5210-840 ^{UL RF}

NOTE: Use only UL/ULC listed devices for UL/ULC certified installations.

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SUPPORTED 345 MHz SENSORS



Detector Type	Model
Door/Window Contact	5816WMWHUL RB (NO ULC)
Door/Window Contact	5815 ^{UL RB}
Motion Detector	5800PIR-COM ^{UL RB}
Motion Detector	5898 ^{UL RB}
Motion Detector	5800PIR ^{UL RB}
Glass Break Detector	5853 ^{UL RB}
Smoke Detector	5806W3 ^{UL RF} (NO ULC)
Smoke Detector	5808W3 ^{UL RF}
Smoke/CO Detector	5800COMBO ^{UL RF}
CO Detector	5800CO ^{UL RF}
CO Detector	GG-CO8345 (2GIG-CO8-345) ^{UL RF (NO ULC)}

NOTE: Use only UL/ULC listed devices for UL/ULC certified installations.

SUPPORTED 433 MHz SENSORS



Detector Type	Model
Door/Window Sensor	WS4945NA ^{UL RB}
Motion Detector	WS4904PUL RB
Motion Detector	WLS914-433 ^{UL RB}
Glass Break Sensor	WLS912L-433 ^{UL RB}
Shock Sensor	EV-DW4927SS ^{UL RB}
Smoke Detector	WS4936 ^{UL RF}
Carbon Monoxide Detector	WS4933 ^{UL RF}
2 Button Key Fob	WS4949 ^{UL RB}
4 Button Key Fob	WS4939 ^{UL RB}
Pendant Button	WS4938 ^{UL RB}
Wireless Repeater	WS492OUL RF/RB

NOTE: Use only UL/ULC listed devices for UL/ULC certified installations.

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PowerG

QS9301-0208-840 (Verizon) QS9302-0208-840 (AT&T)

319 MHz

QS9301-1200-840 (Verizon) QS9302-1200-840 (AT&T) QS9307-1200-124 (Telus)

345 MHz

QS9301-5200-840 (Verizon) QS9302-5200-840 (AT&T) QS9307-5200-124 (Telus)

433 MHz

QS9301-4200-840 (Verizon) QS9302-4200-840 (AT&T) QS9307-4200-124 (Telus)

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