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Overview

The Vantage Keypad Station is one of the primary control points of a Vantage System. Standard features include 2 color LEDs, Sounders, and a variety of faceplate designs, colors and finishes. Select three different buttons styles, FineTouch, SquareTouch and EasyTouch. An optional built in IR receiver is also available (EasyTouch cannot have built-in IR), in addition an auxiliary 6-wire connection on the back of each keypad is provided for easy connection of external devices (e.g., external IR receivers, dry-contacts, motion detectors, light sensors, etc.). Keypads and their faceplates can be ordered in multiple gang configurations including third party devices utilizing Decora punch and other designs. See InFusion Design Center and QLink software for a complete selection.

Specifications

Description	Specification
Dimensions, HWD	4.75" x 2.9" x .875" 121mm x 74mm x 22mm
Finished Single Gang Approx. Weight	Metal Face Plate 6.5 oz. or 184g Plastic Face Plate 3.7 oz. or 105g
Power	24V/36V DC via Station Bus
Surge Suppression	Yes
Maximum Number of Buttons	8
Maximum Number of Auxiliary Connections	2
Maximum Number of Stations per Master	50
Maximum Number of Gangs	Metal up to 5-gangs Plastic up to 4-gangs
LED	Red/Green Red/Blue
IR Option	Yes
Sound Option	Yes (variable pitch)
Wiring Connection	2 Wire 600V Pigtail (included)
Addressing	Self addressing through software
Power for External Devices	15 mA @ 12V DC
Polarity Sensitive	No
Station Wiring configuration	Daisy-chain/Star/Branch
Station Bus Specification	2C, 16AWG / 1.31mm2, twisted, non-shielded, <30pF per foot. Separate a minimum of 12" / 30.5cm from other parallel communication and/or high voltage runs.
Station Equivalent InFusion – 8 button	0.82W on IC-24 / 1.22W on IC-36
Station Equivalent InFusion – 4 button	0.72W on IC-24 / 1.08W on IC-36
Equivalent QLink	1 Station on QLink Main Controller
Station Bus connections*	24V / 36V Station Bus
Finishes	See Below
Ambient Operating Temperature	32-95°F -or- 0-35°C
Ambient Operating Humidity	5-95% non-condensing
Outdoor Use	With Approved Weatherproof Cover (WPC-1 or WPC-2)
UL and CUL Listed	Yes

***CAUTION:** 36V stations have a (36) symbol on the Serial Number sticker. Any station, not displaying this symbol, should not be connected to a 36Volt Station Bus.

System Requirements

This station is compatible with InFusion Design Center software and QLink Software. For new projects it is recommended that firmware and software be kept to the most current release.

Installation

Installation of Vantage products should be performed or supervised by a *Certified Vantage Installer.* The Vantage Keypad Station installation is very simple. Connect using the 2 wire pigtail connection located on the rear of the station.
It can be mounted into a standard 1-5 gang electrical box for some Metal faceplates or 1-4 gang electrical box for Plastic faceplates.

Standard Keypad Set Up In Software

InFusion: Starting a new project, first in the *Project Explorer* click on *Style/Profile View*. Right click on *Keypad Styles* and select *Add Keypad Style*. In the *Object Editor* window fill in all the information for the keypad style. While still in Style/Profile View, right click on *LED Styles* and fill in the appropriate information in the Object Editor for desired LED settings. Next select the room, then click on *Vantage Objects* in the *Object Explorer* and expand *Stations, WireLink*. From the list of stations double click on Keypad Station to place it in the room. In the *Object Editor* name the station, make sure it is on the correct station bus port and make any other modifications. Right click on the keypad or buttons in the *Object Editor* for additional settings.

QLink: Before creating the first keypad click on *System | Defaults* to select the default style of stations, buttons, colors, etc. To add a Standard keypad station in QLink, right click on the room and from the pop-up menu, select Add Station | Keypad from the station list. This will reveal the *Station Definition* Dialog Box. Select the number of buttons on the station and switches 9 and 10 if wanted. Click on the *Style...* button in the bottom of this dialog box to change faceplate colors and style. Click OK to exit the Station Definition window.

Configuration

When the station is first connected to the Station Bus, the diagnostic LED will blink twice followed by a pause, meaning that the station is connected correctly but not yet configured. From Design Center, click on the Configure Stations button on the toolbar or From QLink, select System | Configure Stations and click on the radio Configure button in the Online Configuration section from the pull down menu. Highlight the station. The Status LED will blink 5 times followed by a pause and the button LEDs will blink rapidly indicating that the station is in configuration mode. To finish configuring press any button on the Station 3 times. The station may also be configured by typing the serial number in the project file, using this method the station will automatically be configured when the system is programmed. Please note, if the serial number contains an alpha character please ignore this when typing in serial number. Once configured the Status LED will be off and the buttons stop blinking.

Auxiliary Connections

All auxiliary connections to the station are wired to a six wire pigtail available from Vantage. Motion detectors, wood and metal door contacts, pressure mat sensors, stress sensors, light sensors, etc., are available from Vantage and work by simply connecting them to the 6-wire Auxiliary connector of any standard keypad. Power for Motion detectors, the Vantage LightPoint sensor and the Vantage Q-REMOTEIR are supplied from this connection eliminating the need for an external power supply – 15mA @ 12V DC.

Slave Keypads

All standard keypads (except HiddenTouch) may have a remote station connected to them called a Slave Keypad. The Slave keypad may have one or two buttons. It connects to the 6-wire auxiliary connection on the back of a regular keypad.

Diagnostic LED Information

If the faceplate is removed the Status LED can be seen in the middle of the station's switch matrix. The Status LED blinks evenly or flashes 2, 3, 4 or 5 times followed by a pause to indicate status information.

Off: The station is not powered. A Station Bus connection has not been made or the Main Controller is not powered.

One Even blink: Station is operating correctly and is configured.

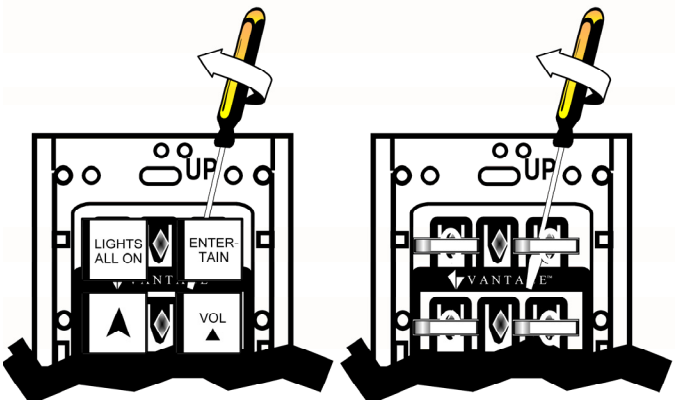
Two blinks: Station is operating correctly but is not configured.

Three blinks: Station is ***not*** communicating with the Main Controller. Verify that station bus wiring is correct and conforms to Vantage guidelines.

Four blinks: station problem. Please contact the factory.

Button Removal Instructions

Do not use fingers to remove SquareTouch or FineTouch buttons or the switch matrix may be damaged voiding the warranty. Carefully insert a small flat-blade screwdriver between the button and the black switch matrix. Make sure the screwdriver does not protrude below the switch matrix. Slightly twist the screwdriver and the button will easily lift off the switch matrix.



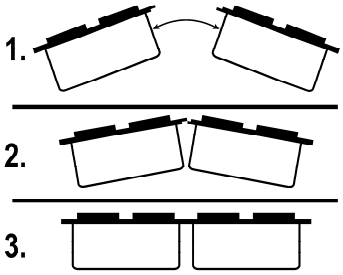
Joining Stations Together

With the EasyGang station design multiple stations easily snap together to build multi-gang stations.

1. Carefully break off the left, right or both tabs when ganging stations.

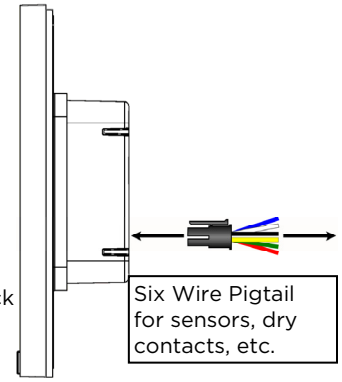
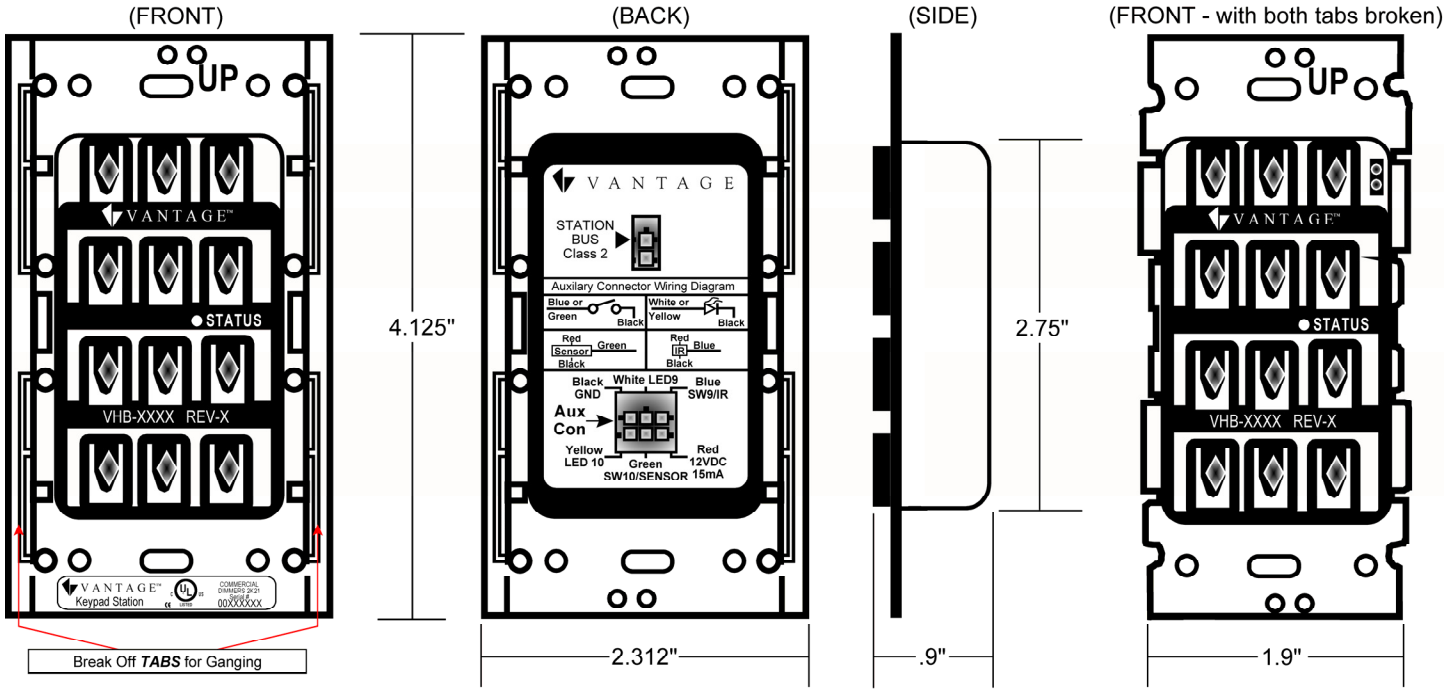
NOTE: *only break both tabs off on **inside** stations, with three or more gangs.*

2. Align the two stations being joined making sure that UP is the same for both stations.
3. Carefully align locking groves to mesh correctly.
4. Gently press the two halves together until they lock. The joined stations may then be straightened to secure the lock.



Avoid Ground loops with Auxiliary Connections

Auxiliary connections to the station are wired to a six wire pigtail, including motion detectors, door contacts, light sensors, etc. Each aux. connection supplies a 15mA @ 12V DC power source, eliminating the need for an external power supply. Aux. powered devices using the Black wire should not be earth grounded unless isolated.



Multi-View Line Drawing