VANTAGE™ *Installation*

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Standard Keypad — KST/KSS

Overview
The Vantage Keypad Station is one of the primary control points of a Vantage System. Standard features include 2 color LEDs, Sounders, SoftLine or TrimLine styling and a variety of colors and finishes. Select three different buttons styles, FineTouch, SquareTouch and EasyTouch, on both SoftLine and TrimLine style stations. An optional built in IR receiver is also available, in addition an auxiliary 6-wire connection on the back of each keypad is provided for easy connection of external devices, i.e., external IR receivers, dry-contacts, motion detectors, light sensors, etc.

Keypads and their faceplates can be ordered in multiple gang configurations and even with third party devices utilizing Decora punch and other designs. See the QLink software for a complete selection.

Specifications

Description	Specification
Finished Dimensions, HWD (1-8 Buttons)	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 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
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
Status LED Indicator	Behind Faceplate
Finishes	See QLink Software
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

System Requirements
All versions of QLink Software and Firmware are compatible. For new projects it is recommended that firmware and software be kept to the most current release.

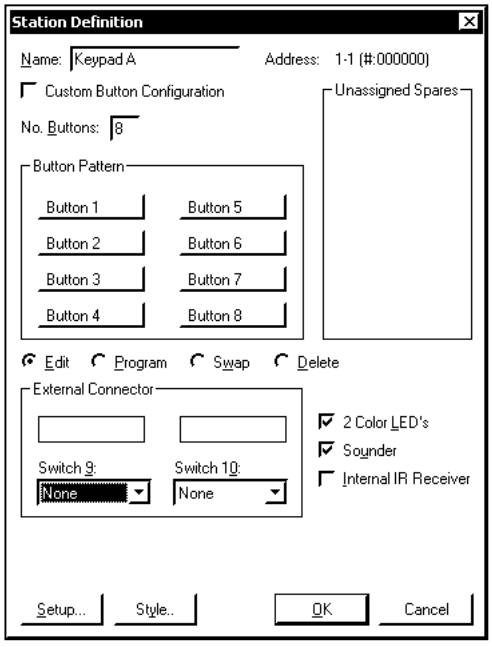
Installation
The Vantage Keypad Station installation is very simple. Connect using the 2 wire pigtail connection located on the rear of the station.

It can be mounted into a standard 1-5 gang electrical box for Metal faceplates or 1-4 gang electrical box for Plastic faceplates.

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 and external power supply – 15 mA @ 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 making the total number of buttons ten on a standard eight button keypad or six on a standard four button keypad. Slave Keypads do not count as a station on the Master Controller. See QLink help for additional information for Slave Keypads. Note, Slave Keypads only have one color, red LEDs.

Standard Keypad Set Up with 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, switches 9 and 10, and internal IR. Switch 9 may be used for an External IR and Switch 10 may be used for the Vantage LightPoint Sensor or they may be used for other auxiliary connections (see Auxiliary Connections above). To change the button style and color for individual keypads click on the Style… button in the bottom of this dialog box. Click OK to

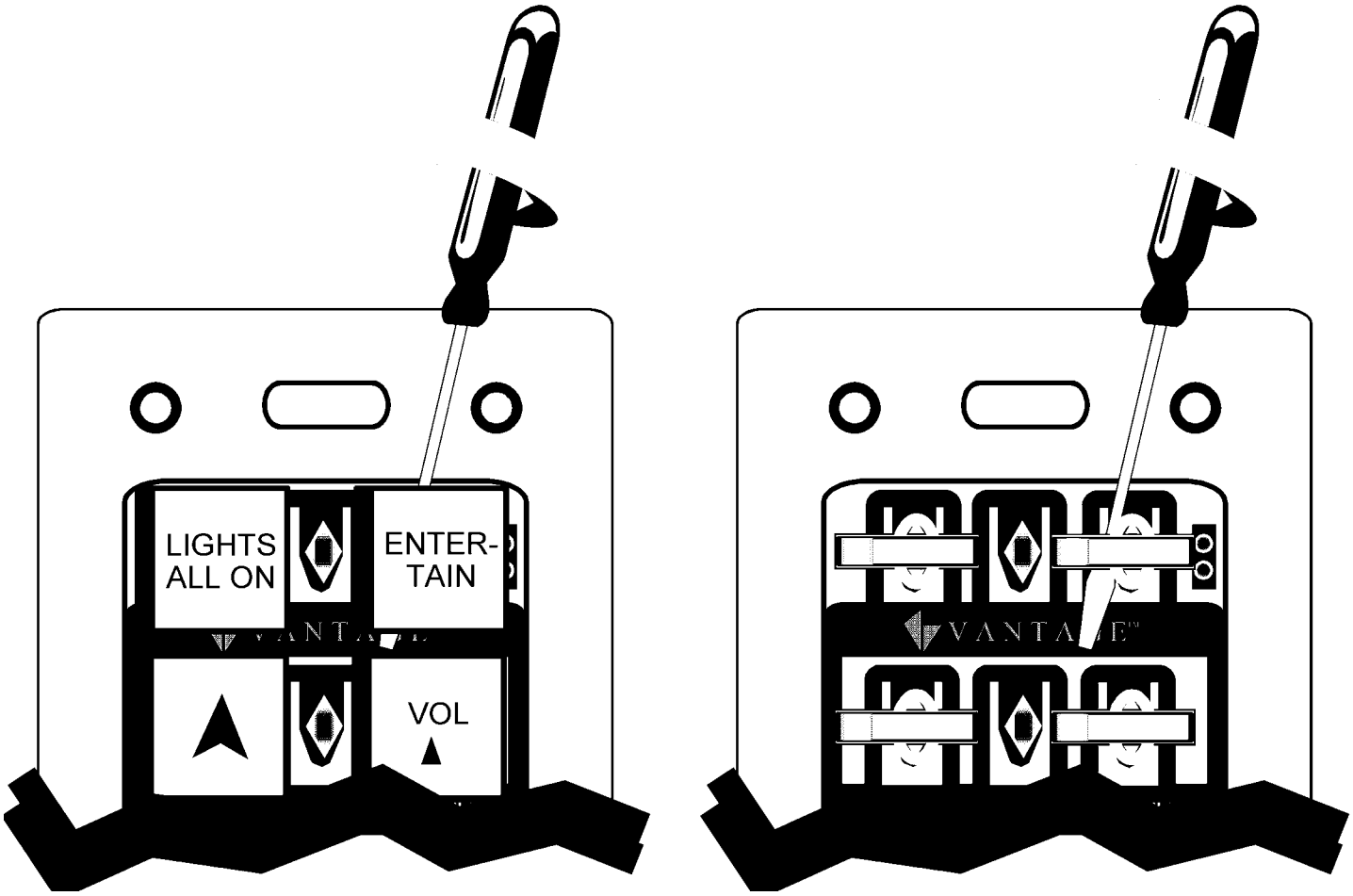
exit the Station Definition window. Right click on a button and select Program. This will reveal the *Event Programming* Dialog Box. Complete the programming by selecting the desired Station Loads, functions and conditions.

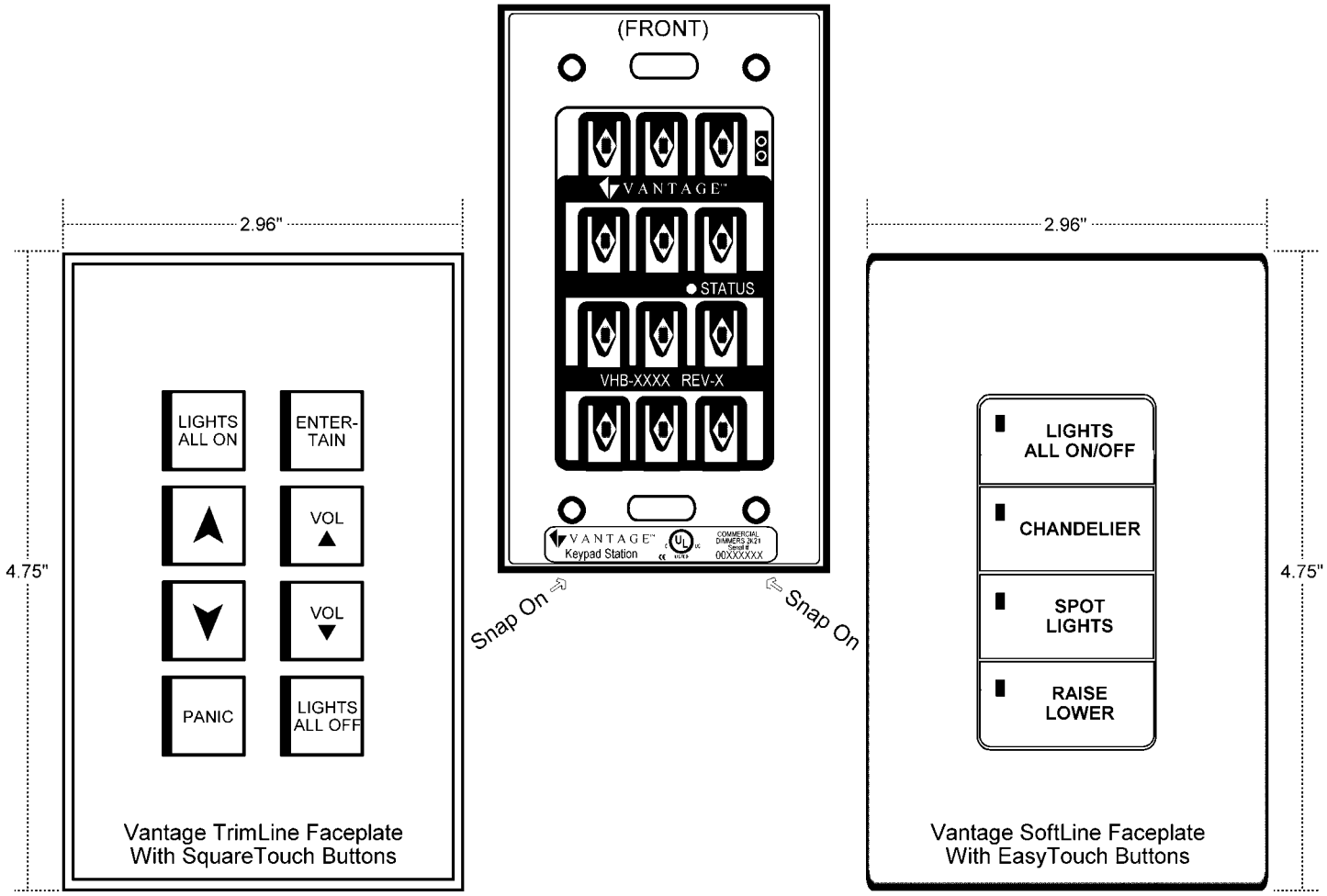
Configuration
When the Station is first connected to the Station Bus, the diagnostic LED will blink twice followed by a pause, meaning that the station is connected correctly but not yet configured. From QLink, select System | Configure Stations from the pull down menu. A list of all stations will be displayed on the screen. Select the Station and click on the radio Configure button in the Online Configuration section. The button LEDs on the Station will blink rapidly. To finish configuring press the first or second button on the Station 3 times. Another way to configure the station is to type the number in manually for each station and when the system is programmed the station will already be configured.

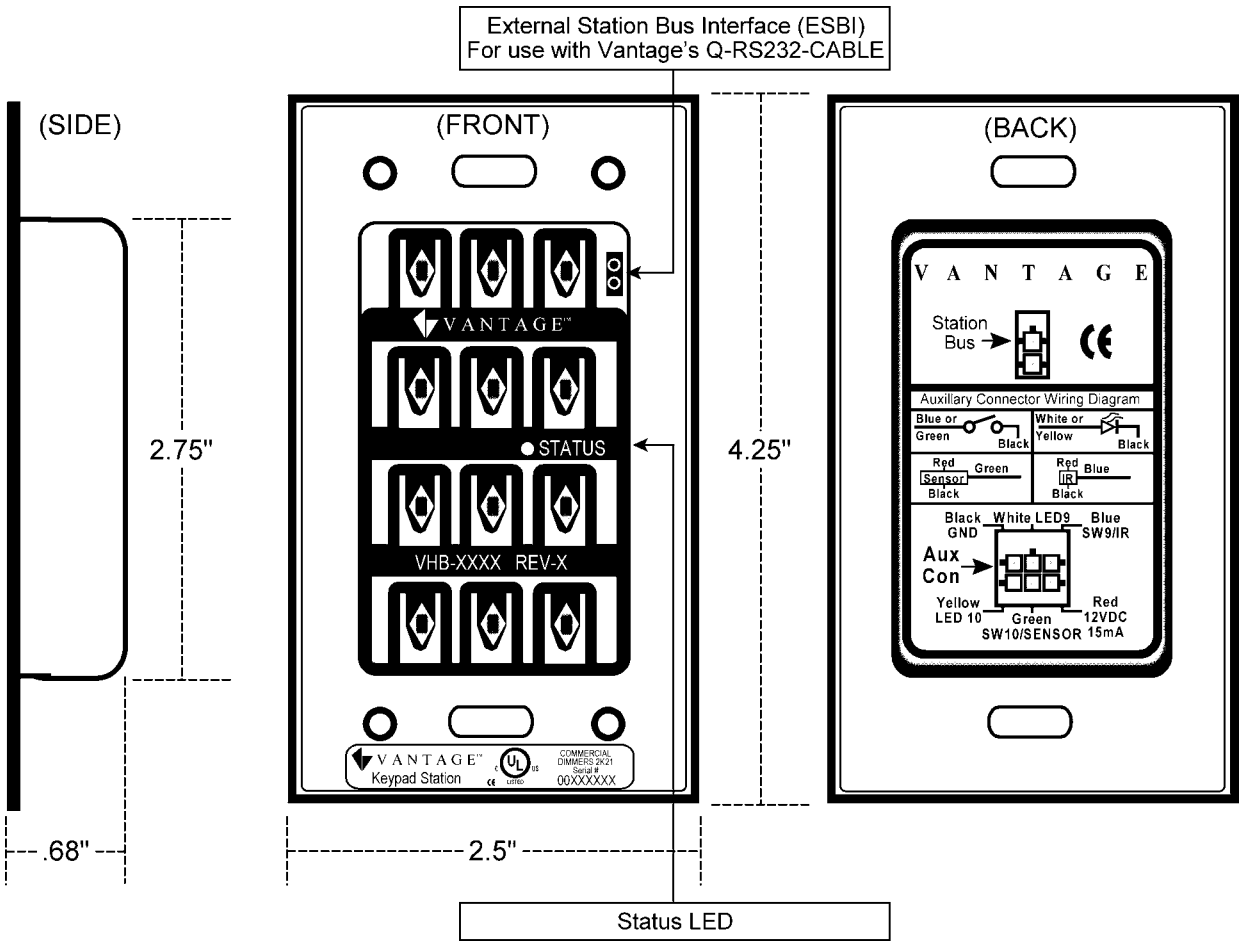
Diagnostic LED Information
If the faceplate is removed the Status LED can be seen in the middle of the station's switch matrix. The Status LED blinks evenly or flashes 2, 3, 4 or 5 times followed by a pause to indicate status information.
Off: The station is not powered. A Station Bus connection has not been made or the Master 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 Master 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 broken 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. EasyTouch buttons must be removed from bottom to top (see EasyTouch buttons on last page)




(FRONT)
VANTAGE
STATUS
VHB-XXXX REV-X
VANTAGE
Keypad Station
2.96"
4.75"
LIGHTS ALL ON
ENTER-TAIN
VOL ▲
VOL ▼
PANIC
LIGHTS ALL OFF
Snap On
Snap On
Vantage TrimLine Faceplate
With SquareTouch Buttons
LIGHTS ALL ON/OFF
CHANDELIER
SPOT LIGHTS
RAISE LOWER
Vantage SoftLine Faceplate
With EasyTouch Buttons


External Station Bus Interface (ESBI)
For use with Vantage's Q-RS232-CABLE
(SIDE)
(FRONT)
(BACK)
2.75"
4.25"
.68"
2.5"
VANTAGE
STATUS
VHB-XXXX REV-X
VANTAGE
Keypad Station
V A N T A G E
Station Bus
Auxiliary Connector Wiring Diagram
Blue or Green
Black
White or Yellow
Black
Red
Sensor
Green
Black
Red
IR
Blue
Black
Black GND
White LED9
Blue SW9/IR
Aux Con
Yellow LED 10
Green SW10/SENSOR
Red 12VDC 15mA
Status LED

Easy Touch Buttons
Easy Touch buttons should be inserted in order from bottom to top. When removing buttons the order should be reversed, top button is removed first. Be careful to overlap the buttons correctly.

Remove using a small flat blade screwdriver as shown above. EasyTouch buttons are connected to the center row of the matrix.

Note, buttons are numbered on the back side for easy identification. 1 is the top 2 is the second and so on.