Overview

EasyTouch II ScenePoint Relay is a single gang wall box station and communicates to the Vantage Control System through the standard station bus. The station is powered via the local line feed. Before the station is programmed, or if communication is lost, the station functions in default mode as an independent relay. Once the station is programmed, buttons can perform any operation that a standard station supports. The station's load may be controlled by any other keypad, IR input, RS-232, timed event, etc. The EasyTouch II relay station is available in one* through five button configurations, single gang. Stations may be ganged together in any combination up to 4-gangs.

The EasyTouch II Scene-Point relay station joins Vantage's premiere line of backlit stations. An EasyTouch II can replace a conventional toggle switch with a stylish, programmable station. Each button is evenly backlit with a built in diffuser and three color LED providing an array of color choices**, lighting ***only the lettering*** on each button. The backlit lettering color also indicates the button's status. Programming provides the user with the option to personalize the color for ON and OFF status. Additional custom status colors may be programmed as desired. The EasyTouch II also features an ambient light sensor for automatic day/night backlight intensity control* and a built-in IR receiver. See Design Center software for EasyTouch II ScenePoint faceplate and button finishes.

***NOTE:** *A one button station WILL NOT SUPPORT the built-in ambient light sensor or the IR sensor. When using the Auto Backlight feature, create a second EasyTouch II keypad style – one with the Auto Backlight feature unchecked for 1-button keypads and another with the Auto Backlight feature checked for multi-button keypads.*

**Notes to Installer

EasyTouch II LEDs

Current technology does not allow LED suppliers to guarantee color values. It is common to have a slight difference among LEDs, however, this is not too noticeable with backlit engraving. Historically, blue and red LEDs are more consistent than green LEDs. Because of this slight variation it is recommended that one or two stations be *pre-programmed* with the colors the client is requesting and shown to the client for their final approval before ordering and installing.

EasyTouch II Auto Backlight

Issue:

The Auto Backlight feature for EasyTouch II will not change all stations at the same time.

Description:

EasyTouch II incorporate a built-in light sensor. When enabled through Vantage software the sensor will change the brightness of the button LEDs. For example, in normal light the buttons would be bright. In extremely low light conditions, as at night time with all the lights off, the buttons would be dimmed to a very low level. Many conditions lend to the phenomenon of keypads not changing at the same time. The location of each keypad is primary. In multiple gang situations more light may be on one part of the multi-ganged station causing the auto backlight feature to operate differently in that section of the multi-gang. Many other lighting factors, even less noticeable to the human eye, can affect, auto backlight sensors, intended results.

Solution:

Because manufacture variations are inherent in light sensors and the conditions mentioned above are inevitable, it is not always practical to use the Auto Backlight feature. This feature may be turned off in Software. If the Auto Backlight feature is not working as the client and installer intends, Vantage Controls recommends using one of the following two suggestions to control the brightness of EasyTouch II buttons.

1. Edit the *LED* style for EasyTouch II buttons by creating two Modes*. Each mode can use the same ON/OFF colors at very different intensities. Create two Time Controls. One for Sunrise and one for Sunset. Program the time controls to assign the appropriate Mode.

-OR-

2. Create the two Mode LED style as described in step one. Install a Vantage light sensor and program the light sensor to change the modes of all the EasyTouch II stations at once in an area.

Specifications

Description	Specification
Station Dimensions	Height = 4.3" -or- 109mm Depth = 1.38" -or- 35mm Width = 2.5" -or- 64mm
Weight	5.1oz. / 145g
Voltage	120/240VAC ~ 60/50Hz
Max. Load	16A (1920W @ 120V) - or - 16A (3840W @ 240V)
Minimum Load Required	0 Watts
Load Types	Incandescent, Cold Cathode, HID, Fluorescent, Constant-Speed Motors
Arc Suppression	Zero Cross Built-in arc suppression
Built-in Lightning / Surge Protection	MOV surge suppression High Voltage meets IEEE C62.41 (6000V & 3000A) Low Voltage meets ITU-T K.20
Cooling	None required
Backlit Buttons	3 color LEDs
Auto LED Intensity	Yes, Built-in/standard
IR Receiver	Yes, Built-in/standard
Status Indicator	Microprocessor Status LED
Station Bus connections	24V / 36V Station Bus
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	0.36W on IC-24 / 0.54W on IC-36
Station Wiring configuration	Daisy-chain/Star/Branch
Ambient Operating Temperature	32 - 95°F -or- 0 - 35°C
Ambient Operating Humidity	5 - 95% non-condensing
UL and CUL Listed	Yes

System Requirements

This station is compatible with InFusion Design Center software. For complete support 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. Turn the circuit breaker off and make sure no voltage is present where the relay station is to be mounted.* Damage caused by failure to disconnect power may void the warranty and is a risk to the installer. The relay station requires Neutral to operate. The Green ground lead must be connected to the structure's safety ground. A standard station pigtail will mate with the station bus connector on the relay station. The

station's bus wire and Vantage's pigtail are both rated at 600Volts. A pigtail connects to the station bus using wire nuts, insulation displacement crimps or any other suitable wire fastener.

Minimum Back Box Dimensions

Number of Gangs	Minimum Back Box Dimensions
1	2.80"h x 1.80"w x 2.5"d
2*	2.80"h x 3.60"w x 2.5"d
3*	2.80"h x 5.40"w x 2.5"d
4*	2.80"h x 7.20"w x 2.5"d

* ScenePoint relay stations are available in one load models only. 2, 3 and 4 gang *Back Box* dimensions are calculated by ganging single load stations together.

NOTE: UL requires one-half inch clearance between the back of the station to the back of the back box.

Most standard back boxes that have the receiving threads for the dimmer mounting screw inside the box will be adequate. Most back boxes where the receiving threads are outside the box will be too small.

In some areas local codes may require that the low voltage wiring be connected outside of the electrical box. A groove is provided in the relay station to route the station bus outside of the electrical box. See detailed drawing at end of instructions.

Mud Rings

If mud rings are specified on a job it is important to test the mud rings for proper fit. Some mud rings run substantially smaller than back boxes and some brands are not large enough for the station. The *only solution* is to test the fit first.

3-Way Switch Application

A standard ScenePoint Relay Station may be used in any 3-way application. When installing a standard ScenePoint Relay station, as a 3-way switch, the Red (Load Out) wire is not connected and is properly capped.

Station Setup in Software

InFusion: 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 including the EasyTouch II *Button Shape.* Select SoftLine or TrimLine plastic for ScenePoint stations. Remember to check or uncheck the Auto Backlight check box to enable or disable this built-in feature. Right click on button style and setup a button style with the button color wanted. While still in Style/Profile View, right click on LED Styles and fill in the appropriate information in the Object Editor for EasyTouch II LEDs – Red/Green/Blue with ON and OFF colors. 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 the *ScenePoint Relay Station* to place it in the room. In the Object Editor, name the station and make sure it is on the correct WireLink bus.

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 and powered correctly, but not configured. In Design Center, click on the Configure Stations button on the toolbar and highlight the ScenePoint Relay station. The Status LED will blink 5 times followed by a pause and the button LEDs will blink rapidly between red and off 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 the serial number. Once configured the Status LED will remain off and the buttons stop blinking.

Default Mode

The EasyTouch II Relay station has a default mode that operates without programming or being connected to the Vantage System. If a relay station has been programmed but communication with the controller is lost the station will revert to default operation, i.e., toggling the load directly connected to the station.

Default IR Mode

EasyTouch II ScenePoints have a built-in IR receiver. The default IR mode that is active before the station is programmed or if the station is offline is explained below.

The Scene Codes 230-239 are transmitted by the Scene buttons 1-10 on a Vantage IR Remote Control.

Scene button 1, Vantage code 230, toggles the station load, operating the same as the default operation for a button. Scene 9, code 238, will turn the station's load on. Scene 10, code 239, will turn the station's load off.

When the station is configured to the system all of the IR Scenes stop executing default operation and will not respond to IR input unless the built-in IR receiver is assigned to an IR Zone with programmed codes.

Reset / Power Outage

The ScenePoint stores the configuration data locally so that it will continue to operate if communication with the system is lost. This information includes: LED properties, sounder properties, and last load state.

To reset this information to the factory default, press and hold switches 1-3 when power is applied to the station. The board will respond by sounding three beeps to indicate that the reset took place.

After a reset the load will be off, and the LEDs will change to Blue for ON and White for OFF.

Removing Metal Tabs

Removal of metal tabs allows ganging with other ScenePoint Stations or third party devices.

Diagnostic Information

The Status LED can be seen behind the sensor light bar. The light bar is just between the 3rd and 4th button diffusers. The Status LED is off or blinks 2, 3, 4 or 5 times followed by a pause to indicate status information.

Off: The station is programmed and configured, or the station is not powered, a line voltage connection has not been made or the line feed breaker is off.
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 conforms to Vantage guidelines and is properly connected.
Four blinks: Relay station problem. Please contact the factory.
Five blinks: Configuration mode.

Cleaning Buttons and Faceplates

- Turn the breaker to the station OFF
- Dampen a soft cloth in water and wring-out to barely damp – almost dry
- Use a light buffing motion to wipe clean
- Do not take the station apart
- Never spray station with any cleaners

Changing the Number of Buttons

EasyTouch II keypads will support 1 to 5 buttons. The number of buttons may be changed on a keypad after it has been installed by following these instructions.

Turn the circuit breaker off and make sure no voltage is present at the ScenePoint station being modifying.

1. Change the software file to the new number of buttons with proper engraving.
2. Order the new buttons for proper engraving.
3. Disconnect power from the station
4. Replace the old button configuration with the new button configuration using the chart example below.
5. When finished replacing the buttons and the station is fully assembled, test the new buttons operation.

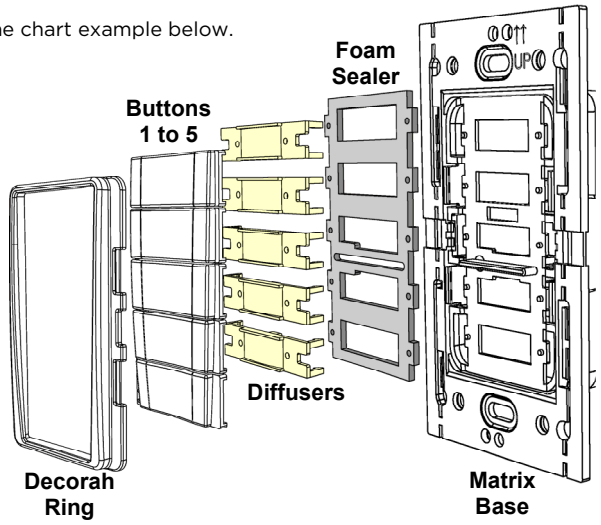
Proper Button Assembly of EasyTouch II Stations

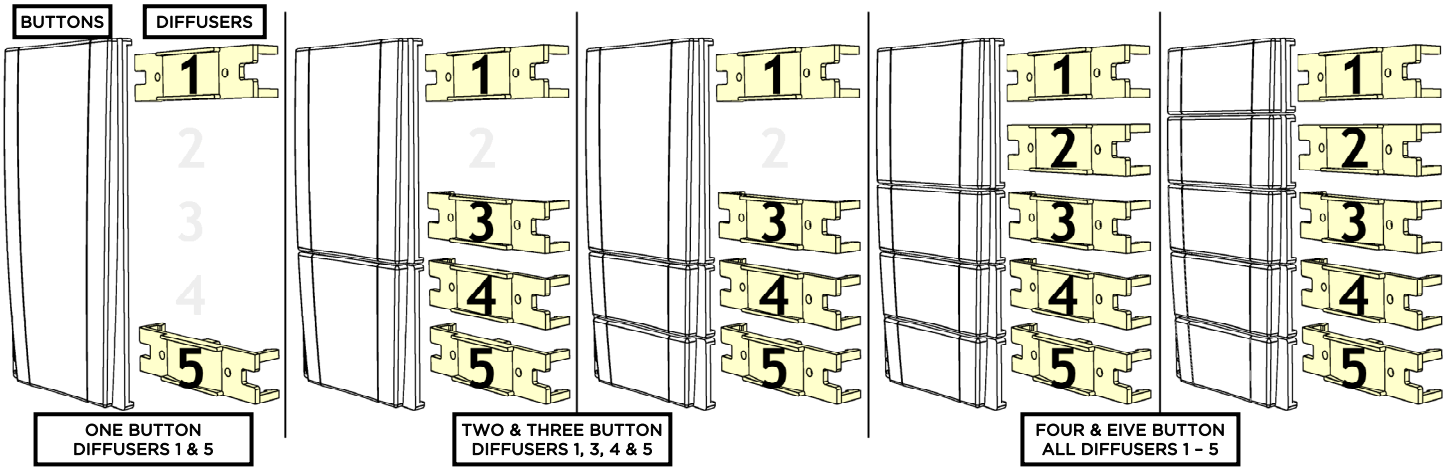
Disassemble:

1. Faceplate: Remove faceplate.
2. Decorah Ring: Remove Decorah button ring.
3. EasyTouch II Buttons: Remove buttons that need replaced.
4. LED Button Diffuser: *Remove* or *add* diffusers for new button configuration, using the examples below.

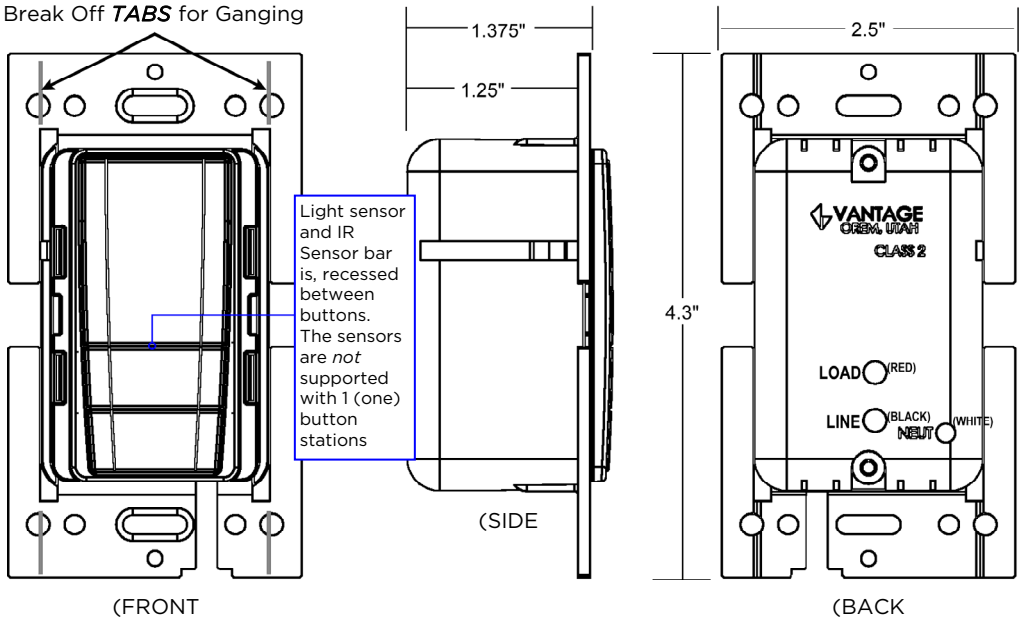
Assemble:

1. LED Diffusers: Double check diffusers are in the correct position.
2. Buttons: Place buttons in proper positions for new configuration. Buttons Must be in the correct position following tapered design from top to bottom. Buttons have a small number on the back border, 1 is top and 5 is bottom.
3. Decorah Button Ring: Replace, securely snaps in place.
4. Faceplate: Replace.





Line Drawings



NEC Code Wiring Information

Installing ScenePoints with Vantage parts, meet or exceed all NEC codes for connecting the Class 2 wiring ***inside*** or ***outside*** of the electrical box. See diagram for Class 2 connections outside of the electrical box.

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Vantage ScenePoint Stations satisfy National Electrical Code (NEC). Based on Article 725-136. Vantage station bus wiring and Vantage pigtails meet NEC's code. Vantage station bus wiring and Vantage pigtails are 600V rated. ScenePoints installed with Vantage parts meet all NEC codes for wiring inside the electrical box. However, Vantage has included a path to make Class 2 connections outside of the electrical box if desired. Follow these instructions to make connections to the Station Bus outside, of the electrical box. Please see "ScenePoint Class2 Wiring_technote.pdf" at http://dealer.vantagecontrols.com/ for more information.*

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Note: Please See item number **4a** for TrimLine II stations

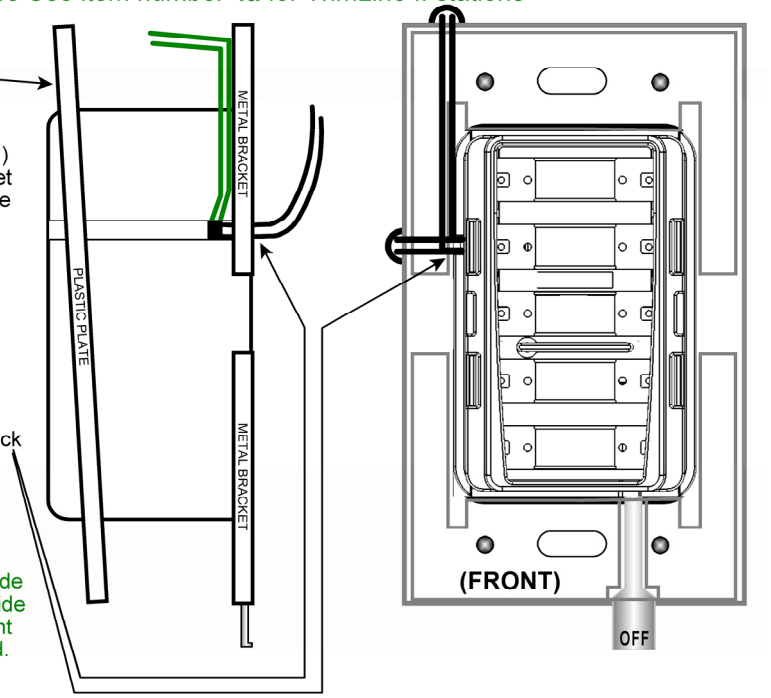
1.
Remove back (plastic) plate from metal brackets if there.

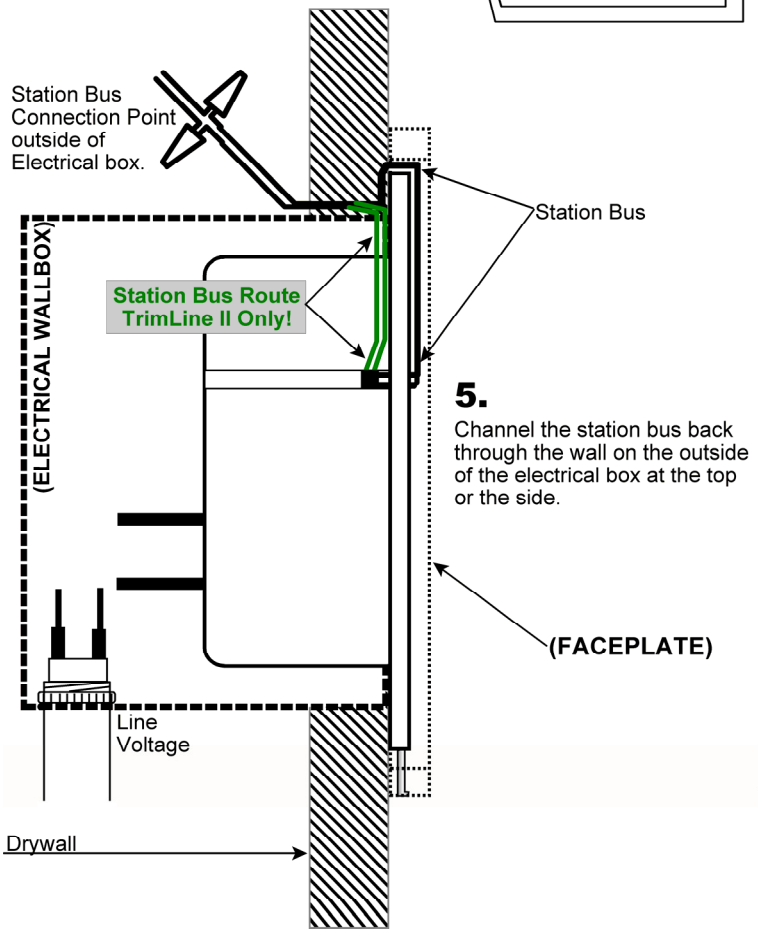
2.
Carefully slide station bus (Class 2 Wiring) connection wire between the metal bracket and the station's back box feeding the wire out the front of the station.

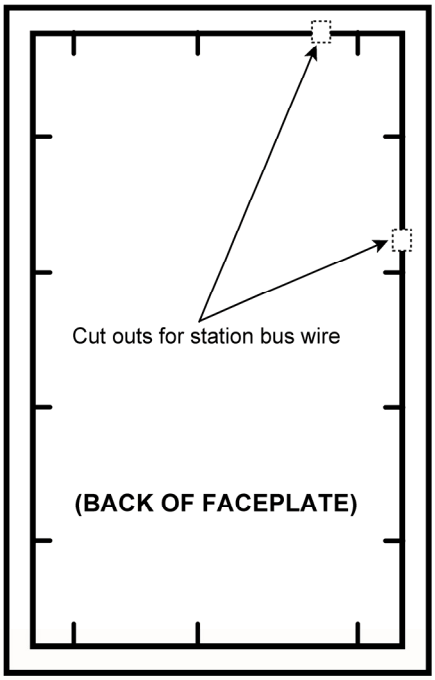
3.
Snap plastic back plate back onto metal brackets.

4.
The station bus wire may be pulled to the left or top side of the station as illustrated. The station bus will then be channeled back through the wall on the outside of the electrical box.

4a.
For TrimLine II stations only, station bus wire may be pulled straight up the back side of the metal bracket and then routed outside of the electrical box. The plate has a slight recess allowing the wire to not be pinched.





5.
Channel the station bus back through the wall on the outside of the electrical box at the top or the side.

(FACEPLATE)