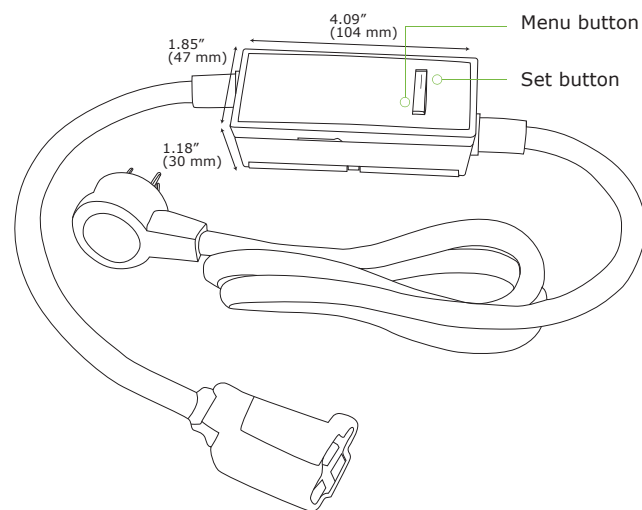


Plug-In Switch Module



Cord Lengths	Plug cord: 3ft. (91.4cm) Outlet cord: 1 ft. (30.5cm)
Weight	12.3oz. (348 g)
Environment	<ul style="list-style-type: none"> Indoor use only 32° to 104°F (0° to 44°C) 20% to 95% relative humidity (non-condensing)
Agency Compliance	cULus, FCC, and I.C.

1 Planning

Take a moment to plan and install the module for user convenience and optimal communication with other system components.

- Consider where the device will be plugged in, what it will control, and how power cords can be kept out of the way
- Consider the construction materials in the space and obstacles that may interfere with RF signals

For detailed information, see the *Verve System Planning Guide* at www.vervelivingsystems.com.

2 Installing

estimated time: 5 minutes



Warning: ELECTRICAL SHOCK HAZARD.
Do not open, cut the cord, or rewire the device.
Serious injury or death could result.

- Turn the electrical load on (for example, a lamp) and unplug the cord from the wall outlet.
- Plug the cord of the electrical load, for example a lamp, into the outlet cord of the module.
- Plug the module into a standard wall outlet.
- Test the connection by actuating the load using the Set button () on the module.

Note: The plug and outlet are polarized, and not intended to be mated with unpolarized devices.

Optional Mounting

The Plug-In Switch Module provides a fixed mounting option to prevent damage and theft. Using the included mounting plate, mount the device high enough off the floor to avoid spills and impact with cleaning equipment.

- Using a level and a pencil, lightly mark two small dots to align the upper edge of the module on the wall where you want to mount it.

Tip: For easy housekeeping, provide sufficient clearance for vacuum cleaners.

Package Contents

- Plug-in Switch Module

Tools Required

- None

Product Description

The Verve Plug-In Switch Module provides an easy way to save energy and control lighting and appliance loads based on room occupancy.

The module simply plugs into any standard wall receptacle and receives wireless signals from Verve compatible products that tell it when to power on or off.

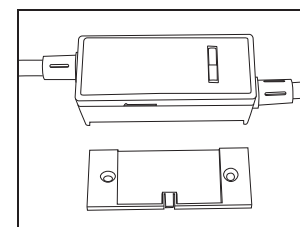
Features Include:

- Provides switching of plug-in electrical loads
- Communicates with other Verve devices to enable energy savings
- Plugs into any standard outlet, no wiring required (optional mounting plate provided)
- Easily links with wireless rocker pads or sensors or connects to simple corded accessory rocker pad

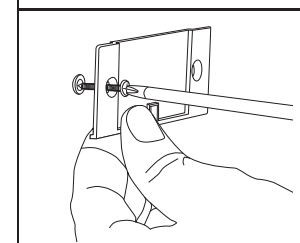
Specifications

Power Supply	120VAC 50/60Hz
Maximum Load or Contact Ratings	General purpose: 15A@ 120VAC Resistive: 15A 120VAC Motor: ½ HP @ 120VAC Tungsten: 960W @120VAC Ballast: 600W @ 120 VAC
Power Consumption	1.1W full load, 500mW quiescent
Transmission Range	80ft. (25m)
Radio Frequency	315MHz
Module Dimensions	4.09" L x 1.85" W x 1.26" D (104mm x 47mm x 32mm)

- Slide the mounting plate off the back of the module.

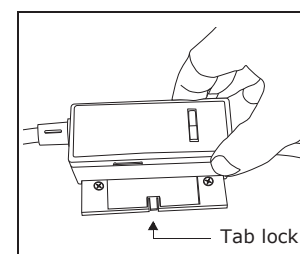


- With the tab lock side down, mount the plate securely to the wall.



- Using the pencil marks to ensure it's level, mark the two mounting screw drill points.
- Drill two holes for the wall anchors with a 3/16" drill bit and insert the wall anchors.
- Insert the first screw loosely and level the module.
- Insert the second screw, and then hand tighten the first screw.

- Slide the module onto the mounting plate until it clicks in place.



Note: Any of the Verve rocker pads can be linked to the module. For affordable remote control, consider the Verve Corded Accessory Rocker Pad (sold separately).

3 Linking

Verve wireless systems are highly flexible; two or more compatible devices can be linked and configured to provide the desired control.

There are two basic types of devices in the Verve system; transmitters and transceivers.

- Transmitters** are simple energy-harvesting devices that send RF messages to communicate a condition, level, or state. Transmitters can only be linked to transceivers.
- Transceivers** are wire-powered controlling devices that send as well as receive RF messages. They also process relevant control logic, and actuate the appropriate outputs (switching a light on or off for example). Transceivers can be linked to transmitters as well as other transceivers. A Verve transceiver can have up to 30 devices linked to it.

The Plug-In Switch Module is a Transceiver

To link devices, the transceiver must first be powered, within the transmission range, and set to accepts links using the setup interface on the transceiver.

Next, the desired transmitter, or another transceiver, is triggered to send a special link message. The awaiting transceiver receives and stores the link permanently so the devices can interact to provide a variety of intelligent control options.

For detailed information on Verve system capabilities and options, see the *Verve System Planning Guide* at www.vervelivingsystems.com.

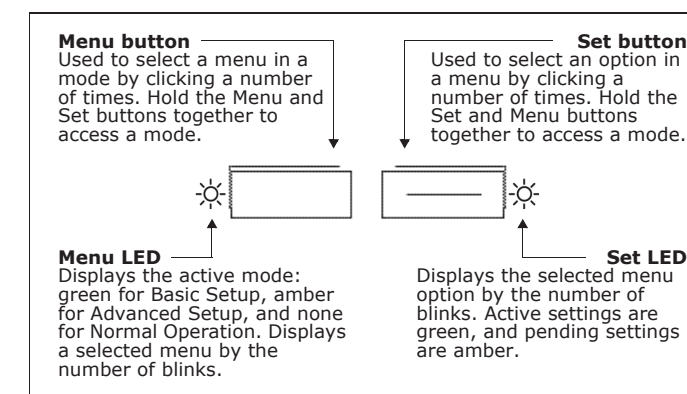
About the Setup Interface

The setup interface has two buttons, Menu and Set, that each have a corresponding 3-color LED (green, amber, red). This simple interface is used to link and configure devices as a system.

The buttons and LEDs are used to navigate and select linking and setup options through a 3-tier menu system consisting of different Modes > Menus > Options. The LEDs respond by showing solid or blinking lights of different colors to indicate active options and pending changes.

To use the interface, hold the module so both thumbs can click the buttons without obscuring the LEDs. The illustration and legend below describe how the buttons are used and the meaning of the LED responses.

Tip: To exit and start over from anywhere in a menu, click both buttons at the same time once.



The Menu LED or Set LED display solid for a number of seconds in a certain color to indicate a mode or a confirmation.



The Menu LED blinks a number of times in a color to indicate a selected menu.



The Set LED blinks a number of times in a color to indicate an option.



A number in a white box indicates the number of times to click the Menu button or Set button.



A number in a black box indicates the number of seconds to hold down the Menu button or Set button.

To link a transmitter to a transceiver:

- Access Basic Setup mode.

Note: By default, the Accept Link option in the Linking menu is selected. Once activated, this option stays active for two minutes to provide time to link multiple devices.

Ready to accept links.

- On the transmitter to be linked, do one of the following according to the type of device:
 - Sensor: click the designated link button.
 - Key Card Switch: insert/remove the card 3 times quickly.
 - Rocker Pad: click the top button 3 times quickly.

Device linked successfully. Set LED displays solid green for 3 seconds.



Ready to accept new links.



3. To exit to normal operation, hold both buttons for 1 second.

To link a transceiver to another transceiver:

When two transceivers are linked to share system activity events, either one of them can be used to send the link signal.

1. Access Basic Setup mode on both devices.



Ready to accept links.



2. On one of the devices, select the Send Link option.



3. Send a link signal from that device.



Devices linked successfully.



Note: For additional linking and unlinking options, see the *Verve System Planning Guide*.

4 Configuring

The default settings on the module support common control and installation scenarios. However, some settings can be adjusted on the module using the setup interface, if required.

For information about changing other settings, see the *Verve System Planning Guide*. The default settings are:

Setting	Default	Application
Auto-On	Automatically Determined	If linked to an occupancy sensor, the default is Enabled. If linked to a switch, the default is Disabled for manual control.
Vacancy Check	5 minutes	If linked to a occupancy sensor and a door sensor.
Switched Auto-Off	Disabled	If linked to a rocker pad or key card switch.
Motion Auto-Off	15 minutes	If linked to occupancy sensor.
Door/Window Ajar	2 minutes	If linked to an occupancy sensor.
Egress	30 seconds	If linked to a key card switch.

Auto-On

The default Auto-On option is automatically determined based on the type of device that is linked. Auto-On is Disabled if the first linked device is a switch, or Enabled if the device is an occupancy sensor.

From the Auto-On menu, the active option is indicated by the number of green blinks on the Set LED; amber blinks indicate an unsaved change. Click the Set button an appropriate number of times to select an option.

Options	Clicks	Blinks
Disabled	1	1
Enabled	2	2
Automatically Determined	3	3


To change the auto-on option:

This example shows changing the option from Automatically Determined to Disabled.

1. Access Basic Setup mode.



2. Access the Auto-On menu.



3. Select an option.



4. Save the selection.



Vacancy Check

The vacancy check is a time delay that is activated when a door opens and closes. The linked loads will turn off, if the sensor(s) do not confirm occupancy within the time delay.

From the Vacancy Check menu, the active option is indicated by the number of green blinks on the Set LED; amber blinks indicate an unsaved change. Click the Set button an appropriate number of times to select an option.

Options	Clicks	Blinks
5 mins. (default)	1	1
15 mins.	2	2
30 mins.	3	3
60 mins.	4	4
120 mins.	5	5

To change the vacancy check option:

This example shows changing the option from 5 to 15 minutes.

1. Access Basic Setup mode.



2. Select the Vacancy Check menu.



3. Select an option.



4. Save the selection.



Auto-Off

There are two auto-off menus, one for occupancy sensors, and one for switched devices. For linked occupancy sensors, the default is 15 minutes. For linked rocker pads and key card switches, the default is Disabled to allow manual control.


From the auto-off timer menu, the active option is indicated by the number of green blinks on the Set LED; amber blinks indicate an unsaved change. Click the Set button an appropriate number of times to select an option.

Options	Clicks	Blinks
Disabled	1	1
5 mins.	2	2
15 mins.	3	3
30 mins.	4	4
60 mins.	5	5


To change the switched auto-off option:

This example shows changing the option from Disabled to 5 minutes.

1. Access Basic Setup mode.



2. Select the Switched Auto-Off menu.



3. Select an option.




4. Save the selection.



To change the motion auto-off option:

This example shows changing the option from 15 minutes to 5 minutes.

1. Access Basic Setup mode.



2. Select the Motion Auto-Off menu.



3. Select an option.





4. Save the selection.



Troubleshooting

Problem	Solution Checklist
The device does not power up	<ul style="list-style-type: none"> • Check the wiring for errors • Check the circuit breaker • Use a voltage meter to confirm power • Verify the cord is not plugged into a switched outlet
The device does not control linked load	<ul style="list-style-type: none"> • Click the Set button to open/close the relay manually • Turn off the power and then restore it
Cannot link other devices	<ul style="list-style-type: none"> • Check if Accept Link option can be accessed • Move closer to the device; it may be out of range • Try linking a different device • Check for environmental conditions that interfere with RF messages • Verify the maximum number of devices (30) has not been exceeded

Problem	Solution Checklist
Cannot change settings on the device	<ul style="list-style-type: none"> • Check if menu item can be accessed • Check if changes can be saved
The device does not respond to wireless messages or selected settings	<ul style="list-style-type: none"> • Check for environment or range issues • Verify the device is linked • Check if appropriate devices are linked according to good system planning

  FCC SZV-STM300C I.C. 5713A-STM300C
 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.

Limited Warranty

Verve™ Products Limited Warranty. Subject to the other terms of this warranty, Liberty Hardware Mfg. Corp. ("Liberty Hardware") warrants you the original purchaser that this Verve™ product will be free from defects in material and workmanship for five years from the date of your purchase of the product. During that period, if the product does not comply with this limited warranty, Liberty Hardware will, at its discretion, repair or replace the product. Repair or replacement is your sole remedy under this or any other warranty of the product, whether express or implied. Coverage Limitations. This limited warranty extends only to the original purchaser and is not transferable. This limited warranty expressly excludes any defects or damages resulting from any product installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner. Instructions for Warranty Service. To obtain warranty service return the Verve™ product, a description of the problem, together with your proof of purchase, securely packaged and with postage prepaid, to: Liberty Hardware Mfg. Corp. Attn: Customer Service - Verve Living Systems 140 Business Park Drive Winston Salem NC 27107 You may be required to provide other information or evidence of the defect. Any returned product that is replaced becomes the property of Liberty Hardware. Implied Warranties. TO THE EXTENT PERMITTED BY LAW, ANY IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE SAME DURATION AS THIS EXPRESS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. NO OTHER EXPRESS WARRANTY HAS BEEN MADE OR WILL BE MADE BY LIBERTY HARDWARE MFG. CORP. WITH RESPECT TO THIS PRODUCT. Limitation of Liability. LIBERTY HARDWARE SHALL NOT BE RESPONSIBLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES SUCH AS THE COST OF LABOR FOR REMOVAL OR REINSTALLATION OF THE PRODUCT, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, TORT, OR OTHERWISE. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion and limitation may not apply to you. If you have any questions about this warranty, contact us at 1-877-874-8774. This limited warranty gives you specific legal rights, and you also may have other rights which vary from state to state. In Canada, the above provisions are not intended to operate where prohibited by law and do not preclude the operation of any applicable provisional consumer protection statute which in certain circumstances may extend the express warranties herein.

