SAVANT

Savant® Panel Bridge (PB-P2000-00)

Quick Reference Guide

Box Contents

(1) Savant Panel Bridge (PB-P2000-00)
(1) AC power cord (064-0914)
(3) #6 x ¾ SS pan head screws (039-0329)
(1) Product Regulatory Statement (009-1950)

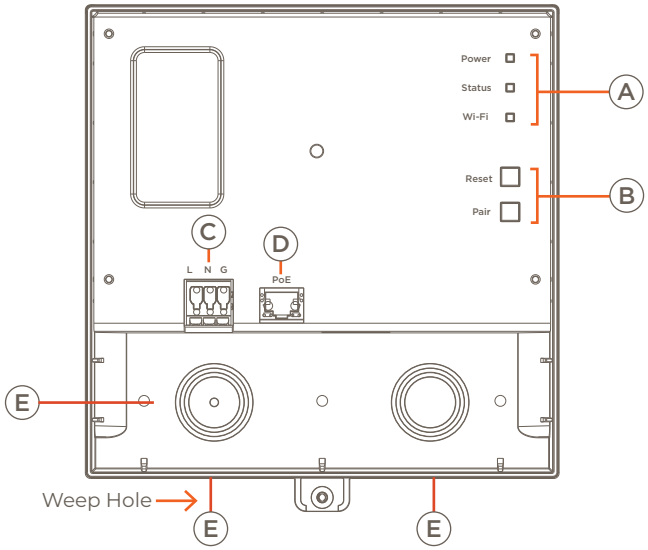
Specifications

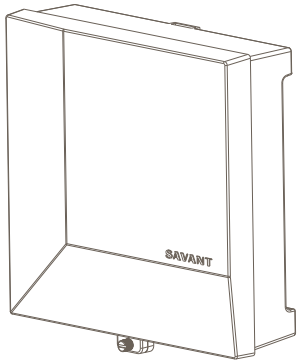
Environmental				
Temperature	-22° to 122° F (-30° to 50° C)			
Humidity	Up to 100% Humidity (condensing)			
Location	Indoor and Outdoor. (Designed to meet NEMA 3R)			
Dimensions and Weights				
	Height	Width	Depth	Weight
Panel Bridge	7.48 inch (190 mm)	7.08 inch (180 mm)	2.52 inch (64 mm)	1.5 lbs (.68 kg)
Shipping	9.0 inch (229 mm)	9.0 inch (229 mm)	3.0 inch (76.2 mm)	3.1 lbs (1.41 kg)
Power				
Power Supply	120V AC power cord or hard wired (hot, neutral, and ground direct wire)			
Maximum Power	25 Watts			
Power over Ethernet (PoE)	802.3af			
Standards				
Bluetooth	Bluetooth Low Energy 5.1 (BLE)			
Wi-Fi	2.4/5.0 GHz IEEE 802.11 a/b/g/n/ac			
Regulatory				
Safety and Emissions	FCC Part 15		IC	
RoHs	Compliant			
FCC ID:	ASU-ZP8J4MN1CRV			
IC:	10052A-ZP8J4MN1CRV			
Contains FCC ID:	VPYLB1ZM			
Contains IC:	772C-LB1ZM			
Minimum Supported Release				
Software Release	Savant OS 11.1			

Additional Information

- Wi-Fi is available when a wired Ethernet connection is not accessible.
- The Panel Bridge can communicate with up to 40 power or lighting modules.

Front Panel





A	**Status LEDs** - See Status LEDs and Buttons for descriptions.
B	**Buttons** - See Status LEDs and Buttons for descriptions.
C	**L/N/G Terminal** Provides 120V power to the PBC-P2000 using an AC cord, wired as follows: – **L - Brown** - Line – **N - Blue** - Neutral – **G - Green Strip** - Ground
D	**Power over Ethernet (PoE)** – 8-Pin RJ-45 Port – 10/100/1000 Base-T auto negotiating port with link/activity LEDs
E	**Knockout Locations** If a weep or drain hole is required for the installation, a 1/8" hole may be drilled into the bottom left dimpled knockout location.

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Status LEDs and Buttons

Power (LED)	**Solid Green** - Power is applied. **Off** - No power. Verify the power source is supplying the proper voltage.
Status (LED)	**Amber** - The Panel Bridge is booting/rebooting. **Amber Blinking** - The Panel Bridge is installing Firmware Updates, Host Software is downloading/installing, or other controllers are updating. **Blue** - The Panel Bridge completed startup but doesn't have an IP Address. **Blue Blinking** - The Panel Bridge is in pairing mode and scanning for Power Modules. **Green** - Normal operation mode. **Red Blinking** - The Panel Bridge is unable to communicate with paired Power Modules or Controllers. **Red Blinking (fast blink)** - The Panel Bridge is unable to communicate with paired Power Modules or Controllers. **Red Blinking (three fast blinks)** - The Pair button was pressed, but the system is already configured. See the description in the **Pair (Button)** fields below.
Wi-Fi Status (LED)	**Green** - The Panel Bridge is provisioned, and communicating with Wi-Fi. **NOTE:** The Savant Power & Light App configures the wireless interface. **Red** - The Panel Bridge is provisioned to Wi-Fi but unable to communicate with that network. **Red Blinking (fast blink)** - The Reset button was pressed and held for 10 seconds. See the description in the **Reset (Button)** fields below. **Red Blinking (three fast blinks)** - The Local Mode button button was pressed, but the Panel Bridge is already connected to a Wi-Fi network. **Off** - The Panel Bridge is not provisioned to Wi-Fi.
Reset (Button)	**Press and Release** - Reboots the Panel Bridge, and all settings are left intact. **Press and hold (5 secs)** - Press and hold for 5 seconds until the Status LED blinks red, then release. The Panel Bridge reboots, all the network settings are cleared, and the Panel Bridge returns to provisioning mode. Network and password settings are preserved. **Press and hold (10 secs)** - Factory Reset. Press and hold for 10 seconds until the Status and Wi-Fi LEDs blink red, then release. After the reboot, the network settings, configuration, logs, and passwords are cleared. **NOTE:** The Panel Bridge will continue to be associated with a Home in the Savant Cloud. A call to Savant Support may be necessary to redeploy to a different Home.
Pair (Button)	**Press and Release** - Launches On-Device Pairing. In this mode, the Panel Bridge locates any power or lighting modules that are also in pairing mode, and connects with them. **Press and Hold** - Press and hold for 5 seconds, then release to clear the configuration running on the Panel Bridge and then initiate a reboot. Network and password settings are preserved. **NOTE:** A gear icon displayed on a power or lighting module's LCD screen indicates the module is in pairing mode.

Installation

The Panel Bridge can be placed on a solid flat surface such as a table, cabinet, rack, or shelf or mounted onto a wall or similar structure using the supplied mounting bracket. Install the chassis in a dry, well-ventilated place that is out of direct sunlight. Both rack and wall mounting instructions are offered below.

⚠ **IMPORTANT:** Install the PB-P2000 within 6 1/2 feet (198.12 cm) and in direct line of sight of power and lighting modules. Maximum mounting height is 6 1/2 feet (198.12 cm) and minimum mounting height is 3 feet (91.44 cm). The installation location should follow NEC guidelines and local electrical codes.

Rack Mount

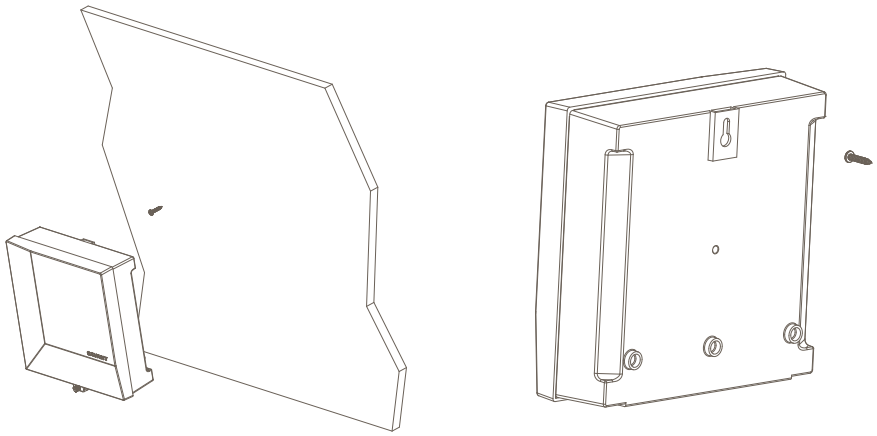
The optional RCK-3000 provides a ventilated shelf for mounting. This rack is compatible with all standard 19-inch National Manufacturers Association (NEMA) rack mounts.

Wall Mount

1. Remove cover by loosening the thumb screw and set aside. Determine wire entry location from bottom or rear knockout.
2. Drill the selected location to fit chosen UL knockout entry fitting (not included).
3. Connect power to the PB-P2000. Use a suitably listed cable gland (M31 x 1.5"). **Example:** CG-PG11-2-BK.
   - Install **AC Cord:** Terminate cable, black to brown **L**[ine], white to blue **N**[eutral], green to green strip **G**[round]. Secure the three lever locks. OR
   - Install **AC Wiring:** Terminate black to **L**[ine], white to **N**[eutral], bare copper earth wire to **G**[round].
4. Locate the desired mounting location, install provided #6 SS pan head screw and drive in to surface leaving screw head ⅛ inches protruding.

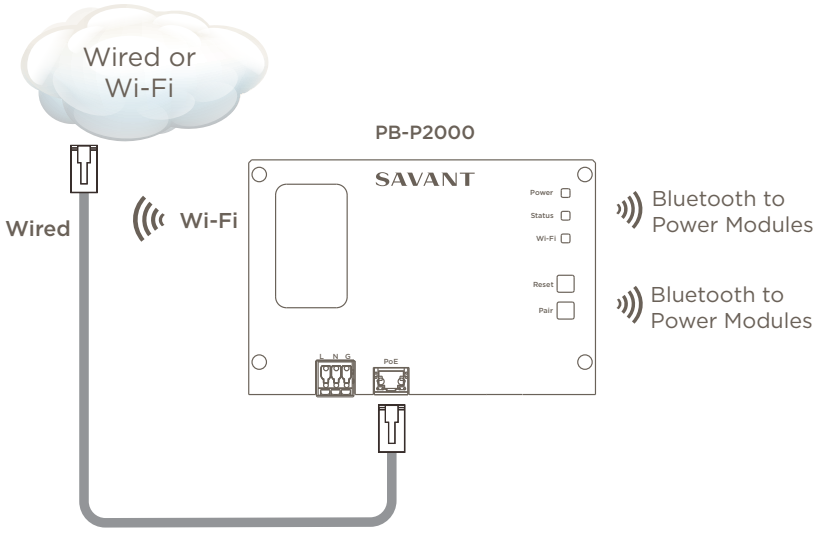
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5. Hang the Panel Bridge on the keyhole provided on the rear. For additional security, there are three locations in the wire gutter that can be used with the screws provided.
6. Re-install cover by hooking the top over the rear enclosure and close until tightened with the thumb screw.

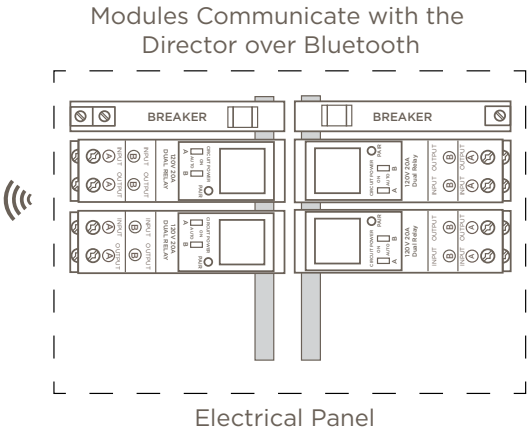


System Overview

Use the diagrams below as a guide when designing a system.



User can choose from a
Wired or Wi-Fi Connection



Network Requirements

⚠ **IMPORTANT!** Savant recommends that users open and thoroughly read the **Savant Device Networking Guidelines** document on the Savant Customer Community before deploying any network-connected Savant products.

Only a Wi-Fi or wired Ethernet network connection is supported. Multiple simultaneous network connections are not supported.

Documentation

Savant Power & Light App - Initial Smart Panel Configuration - This guide includes wiring diagrams, power/lighting module configuration information, Savant Power & Light App setup, and other information regarding the installation and configuration of a Savant Power system.

Lighting & Shades Device Manager Programming Guide - Configure Panels & Panel Bridge Controllers - Includes instructions for configuring the Panel Bridge within RacePoint Blueprint for Savant Host based smart home systems.

All documentation is available on the Savant Customer Community.

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