

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)

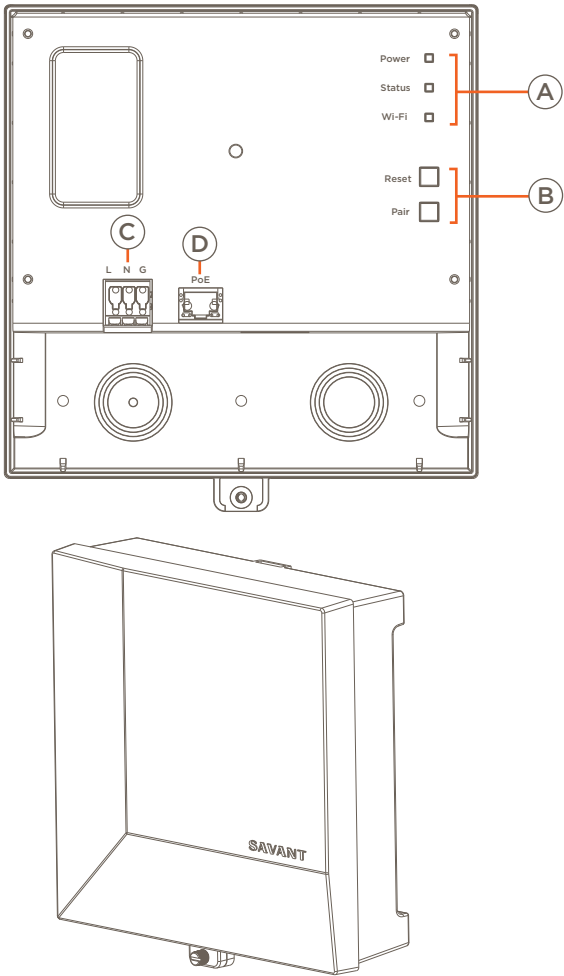
Specifications

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				
	FCC Part 15	IC	TUV	
Safety and Emissions				
RoHs	Compliant			
FCC ID:	ASU-ZP8J4MN1CRV			
IC:	10052A-ZP8J4MN1CRV			
Contains FCC ID:	VPYLB1ZM			
Contains IC:	772C-LB1ZM			
Minimum Supported Release				
Software Release	SavantOS 11.1			

Additional Information

- During installation, limit the distance between the Panel Bridge and the power/lighting modules to 6 ½ feet (2 meters) or less.
- 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.

L/N/G Terminal

Provides 120V power to the PB-P2000 using an AC cord, wired as follows:

- C** - **L - Brown** - Line
- **N - Blue** - Neutral
- **G - Green/Yellow Stripe** - Ground

Power over Ethernet (PoE)

- D** - 8-Pin RJ-45 Port
- 10/100/1000 Base-T auto negotiating port with link/activity LEDs

 **IMPORTANT!** In the descriptions below, **Home Network** refers to the local Wi-Fi or wired network.

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 and loading software. The Panel Bridge is not ready.
	Amber Blinking - The Panel Bridge is installing firmware updates.
	Blue - The Panel Bridge completed startup but does not have an IP address.
	Blue Blinking - The Panel Bridge is in pairing mode and scanning for Power Modules. Discovered modules will be paired to the Panel Bridge. NOTE: This state will trigger if pairing is activated from pressing the Pair Button or initiating Pairing using SP&L or Blueprint.
	Green - Normal operation mode. The Panel Bridge has an IP and all module connections are stable.
	Red Blinking - The Panel Bridge is unable to communicate with paired Power Modules.
Wi-Fi Status (LED)	Red Blinking (fast blink) - Reset button was held for 5/10 seconds.
	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.
Reset (Button)	Off - The Panel Bridge is not provisioned to Wi-Fi.
	Press and Release - Reboots the Panel Bridge, and all settings are left intact.
	Press and hold (5 secs) - Network Reset. Press and hold for 5 seconds until the Status LED blinks red (fast blinking), then release. The Panel Bridge reboots, all the network settings are cleared, and the PB returns to provisioning mode. Modules will not be cleared and remained paired to the PB.
Pair (Button)	Press and hold (10 secs) - Factory Reset. Press and hold for 10 seconds until the Status and Wi-Fi LEDs blink red (fast blink), then release. After the reboot, the network settings, paired Modules, logs, and passwords are cleared.
	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 (5 secs) - Press and hold for 5 seconds until the Status LED blinks red (fast blink), then release. All Power Modules will become unpaired. 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 positioned on a solid, flat surface—such as a table, cabinet, rack, or shelf—or mounted on a wall (or similar structure) using the supplied bracket. Install the chassis in a dry, well-ventilated area, out of direct sunlight. The instructions below cover both rack- and wall-mount options. When installing, place the Panel Bridge within 6.5 feet (2 m) and in direct line of sight of the power and lighting modules.

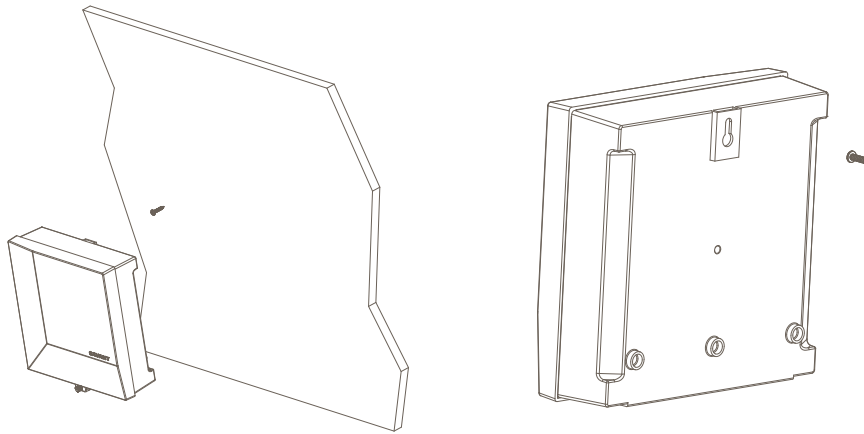
Rack Mount

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

Wall Mount

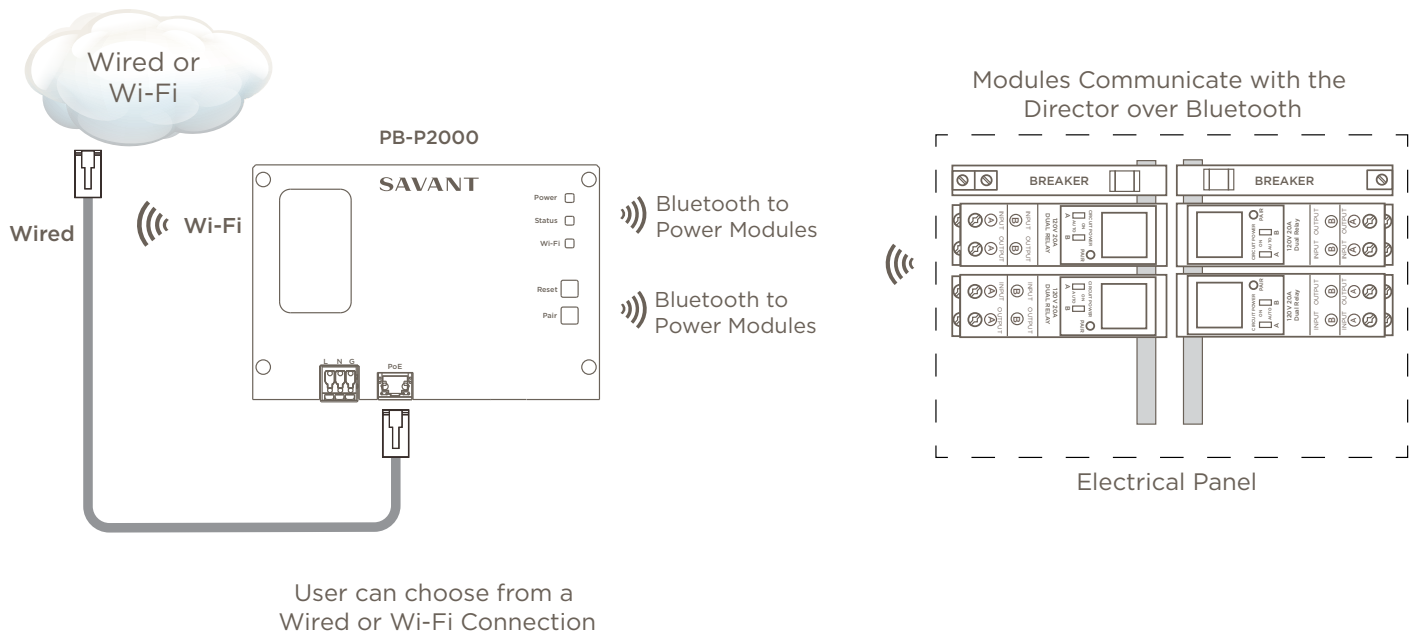
1. Remove cover by loosening the thumb screw and set aside. Determine wire entry location from bottom or rear knockout.
2. Drill the selected location to fit chosen UL knockout entry fitting (not included). If outdoors, use a UL approved cable gland fitting of desired size.
3. Install desired fitting and provided AC cord.
4. If using provided **AC cord**: terminate cable, brown to L[ine], blue to N[eutral], green/yellow stripe to G[round].
OR
If using permanent **Romex home wiring**: terminate black to L[ine], white to N[eutral], bare copper earth wire to G[round].
5. Locate the desired mounting location, install provided #6 SS pan head screw and drive in to surface leaving screw head ¼ inches protruding.

6. 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.
7. 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.



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 individual Wi-Fi or wired Ethernet network connections are 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 Blueprint for Savant Host based smart home systems.

All documentation is available on the [Savant Customer Community](#).