SAVANT

Savant® SmartControl 2 Wi-Fi Controller (SSC-W002G-10)

Quick Reference Guide

Box Contents

(1) SmartControl 2 Controller (SSC-W002G-10)
(1) Installation Kit (075-0174-xx)
  (1) Mounting Plate (074-0569-xx)
  (1) 6-pin Screw Down Plug-in Connector (028-9352-xx)
  (1) 5V DC 1.2A Power Supply (025-0207-xx)
  (1) Cable Tie (014-0071-xx)
(1) Product Regulatory Document (009-1950-xx)

Specifications

Environmental				
Temperature	32° to 104° F (0° to 40°C)			
Humidity	10% to 90% (non-condensing)			
Dimensions and Weights				
	Height	Width	Depth	Weight
Device	0.64 in (1.62 cm)	2.70 in (6.85 cm)	2.67 in (6.78 cm)	0.50 lbs (0.22 kg)
Shipping	3 in (7.62 cm)	7 in (17.78 cm)	10 in (25.40 cm)	1.0 lbs (0.46 kg)
Power				
Input	5V DC 1.2A			
Maximum	6 watts			
Standards				
Wireless (Wi-Fi)	(802.11 b/g/n 2.4 and 5 GHz) **IMPORTANT!** 802.11r (fast roaming) is not supported.			
Security	WPA2™ and WPA3™			
Regulatory				
Safety and Emissions	FCC Part 15	CE	C-Tick	UKCA
Contains FCC ID:	PUU-KEYPADSG2A			
Contains IC:	10798A-KEYPADSG2A			
RoHS	Compliant			
Minimum Supported Releases				
SavantOS 11.2.5				

Network Guidelines

For more information, see the **Savant Device Networking Guidelines** on the **Savant Customer Community**.

Front Panel



A Press and hold for five seconds while powered On to clear the network settings. The Status LED blinks rapidly when reset is complete.

B

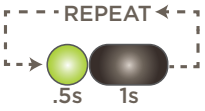
Off: No Power



On Solid: Provisioned to the local network and communicating with the Savant System Host.



Blinks Once: In Provisioning Mode. Ready to be added to the local network.



Blinks Twice: Establishing connection with the local network.



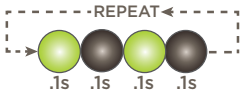
Blinks Three Times: Connected to the local network. Is connecting to the Host.



Short Off Blink: Firmware is updating.



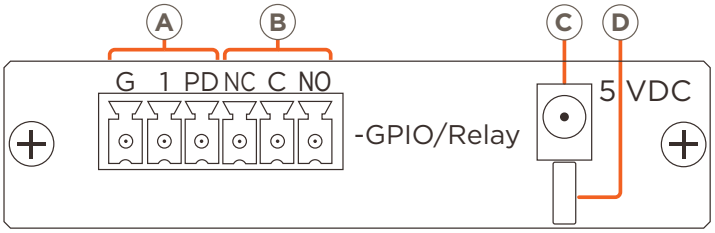
Rapid Blink: The reset button was held down for at least five seconds and the SSC-W002G is performing a factory reset. After reset, all network settings are cleared and the factory defaults are set.



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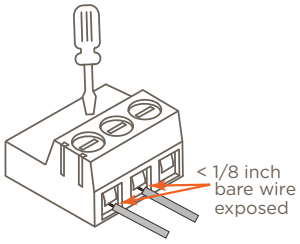
Rear Panel



GPIO (General Purpose Input/Output)		
A	GPIO (Input)	When configured as an input the processor will look for a low (<0.8V DC) or high (>2.4V DC). Minimum 0V DC / Maximum 12V DC.
	GPIO (Output)	When configured as an output, the port provides a binary output of 0-12V DC 150mA max.
Relay Port (Normally Open/Normally Closed)		
B	Relay	Dry contacts (normally open/normally closed) to control devices requiring basic on/off operation. Max: 30V DC 1A.
C	Input Power	5V DC 1.2A. Connect to included power supply.
D	Cable Lance	Use with included cable tie to secure power supply connection.

Making Connections

1. Remove power if applied.
2. Pull to remove the terminal block from the rear of the controller.
3. With a small flat bladed screwdriver, turn the screws on top of the connector counterclockwise until the silver crimps in the rear of the connector open enough to slide the wire(s) into the square slots.
4. Strip back the insulation on each of the wires ¼ inch. Insert the stripped wires into their proper ports. Do not allow more than ⅛ inch of bare wire exposed.



5. Turn the screws on the top of the connector clockwise until the crimps tighten around each wire. Tug on each wire a bit to verify they are installed securely.
6. Plug terminal block back into the rear of the controller.
7. Reapply power.

Connecting to a Wireless Network

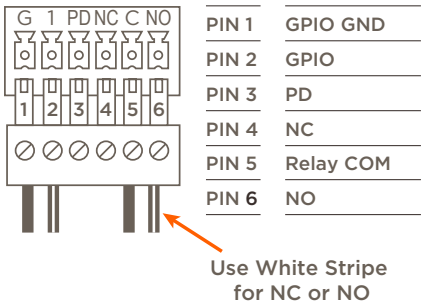
To connect the **SSC-W002G-xx** to the local network, use one of the following methods:

- Savant Power & Light App (version 3.3.4 and higher): Refer to the **Savant Wi-Fi Provisioning Guide**
- Embedded Web UI: Refer to the **SmartControl 2 – (SSC-W002G) Deployment Guide**

GPIO and Relay Wiring

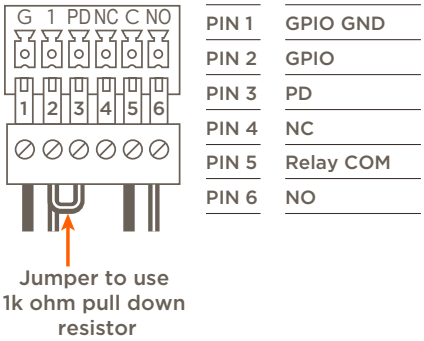
General Purpose Input/Outputs (GPIO) are binary I/O ports used on Savant® controllers used to trigger an action within the system. Events can be the control of a device, such as turning on an amplifier (output) or detecting a state change for a device (input) to perform a workflow. The left three pins of the supplied 6-pin connector are used for GPIO connections.

Relays are used when a contact closure (normally open or normally closed) is needed to activate a device. An action such as raising or lowering shades, opening or closing a gate, or sending control signals to an HVAC system are a few examples. The right three pins of the supplied 6-pin screw down plug-in connector are used for Relay connections.



GPIO Pull Down Resistor (PD) Usage

GPIO pins are configured as inputs and are pulled high to 12V while the Host is booting. To make the GPIO signal low during a Host reboot and/or a power cycle, attach the GPIO 1 pin to the PD pin. The PD pin is a 1k ohm pull down resistor (to signal ground) which keeps the GPIO output below 0.8V during processor boot times.



Additional Documentation

Additional Documentation is available on the **Savant Customer Community**.

- SmartControl 2 Wireless Controller [SSC-W002G] Deployment Guide
- Relay and General Purpose Input/Output Profiles App Note
- SmartControl 2 SSC-W002G Troubleshooting Guide

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