SAVANT

For Product Info

Savant® SmartControl RS485 - Wired Shade Controller with 2 RS485

Quick Reference Guide

Box Contents

(1) Wired Shade Controller (SSC-002485-00)
(1) Installation Kit (075-0177-xx)
  (1) Mounting Plate (074-0577-xx)
  (2) 6-pin Control Connector (028-9352-xx)
  (2) 9-pin Control Connector (028-9353-xx)
  (1) 12V DC 1.5A Power Supply (025-0166-xx)
  (1) Cable Tie (014-0071-xx)
(1) Quick Reference Guide (this document)

Specifications

Environmental	
Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 80% Relative Humidity (non-condensing)
Dimensions and Weight	
Height	1.40 in (35.6 mm)
Width	6.00 in (152.4 mm)
Depth	3.20 in (81.3 mm)
Weight	Net: 0.50 lb (0.22 kg)
	Shipping: 1.50 lb (0.68 kg)
Power	
Input Power	12V DC 1.5A
Max Power	18 watts
Regulatory	
Safety and Emissions	FCC Part 15, CE, C-Tick
RoHS	Compliant

Network Requirements

Savant requires the use of business class/commercial grade network equipment throughout the network to ensure the reliability of communication between devices. These higher quality components also allow for more accurate troubleshooting when needed.

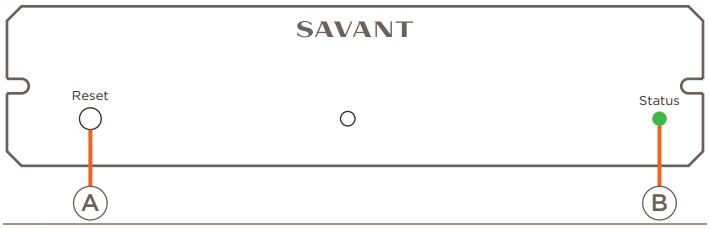
Connect all Savant devices to the same local area network (LAN) or subnet as the Host. Savant recommends not implementing any type of traffic or packet shaping in your network topology for the Savant devices as this may interfere with performance.

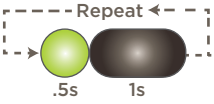
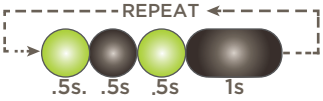
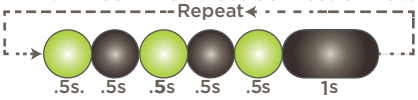
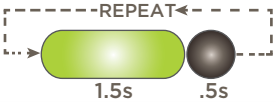
Network Configuration

To ensure that the IP Address will not change due to a power outage, Savant recommends using DHCP reservation within the router. By using this method IP Addresses for all devices can be managed from a single UI, avoiding the need to access devices individually.

NOTE: Setting DHCP reservation varies from router to router. Refer to the documentation for the router to configure DHCP reservation.

Front Panel



(A) Reset	Press and hold for five seconds while powered On to clear the network settings. The Status LED blinks rapidly when reset is complete.
(C)	**Off**: No Power
	Solid On: Connected/Communicating with the Savant Host.
	Blinks Once: No IP Address. 
(B) Status LED	**Blinks Twice**: Waiting for the Host Connection. 
	Blinks Three Times: Host Connection Lost. 
	Short Off Blink: Firmware is Updating. 

Additional Documentation

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

- Shade Provisioning and Programing Guide (009-1525-xx)
- Shade Wiring and Mounting Guide (009-1532-xx)
- Shade Fabric Install Guide (009-1529-xx)

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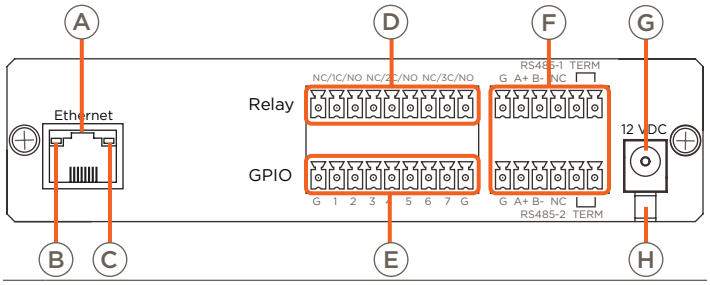
Rear Panel



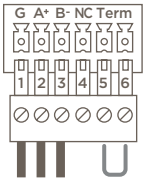
A	Ethernet	10/100 Base-T auto-negotiating port with Link/Activity. LEDs: 8-pin RJ-45 female. See items B and C for LED functionality.
B	Link LED	**Off**: Ethernet link is not established. **Green Solid**: Ethernet link is established. **Green Blinking**: Ethernet activity is occurring.
G	Data Rate LED	**Off**: 10 Mbps data rate **Green**: 100 Mbps data rate
D	Relay	9-pin Control Connector See Relay Wiring for pinouts Normally Open (NO) Normally Closed (NC) to control devices requires basic on/off operation DC Voltage Max: 30V DC 1A.
E	GPIO	9-pin Control Connector See GPIO Wiring for pinouts **GPIO Input**: When configured as an input the processor will look for a low (<0.8V DC) or a high (>2.4V DC) state. 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.
F	RS-485	6-pin Control Connector See RS-485 Wiring for pinout. Half Duplex control signal
	Input Power	12V DC 1.5A – Connect to included power supply.
H	Cable Lance	Use with included cable tie to secure power supply connection.

Making Connections

1. Remove Power if power is applied.
2. Pull to remove the 6-pin 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 opens enough to slide the wire(s) into the square slots.
4. Strip back the insulation on each of the wires ¼ inch. Using the diagram above, insert the stripped wires into their proper ports There should be no bare wires protruding from the rear of the connector.
5. Turn the screws clockwise until the crimp tightens around the wire. Tug on the wire a bit to verify they are installed securely.
6. Continue until all wires are installed.
7. Plug terminal blocks back into rear of the controller.
8. Reapply power

RS-485 Wiring

RS-485 connections are made using the 6-pin control connector included with controller. This connector plugs into the connection on the rear of the controller.

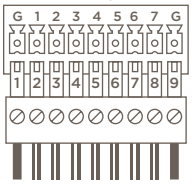


PIN 1	Ground
PIN 2	A+ (Data+)
PIN 3	B- (Data-)
PIN 4	No Connection
PIN 5	Term
PIN 6	Term

TERM: Add a jumper wire to connect the internal terminating resistor between the A+ and B- ports. The terminating resistor reduces problems that can occur when long cable lengths are used.

GPIO Wiring

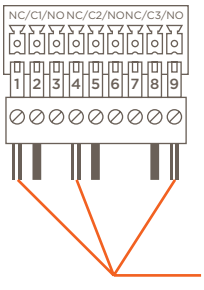
General Purpose Input/Outputs (GPIO) are binary I/O ports used on Savant controllers to trigger an action within the system. Events can control a device, such as turning on an amplifier (output) or detecting a state change for a device (input) to perform a workflow. Pins are used for input or output depending on configuration.



PIN 1	Ground
PIN 2	GPIO 1
PIN 3	GPIO 2
PIN 4	GPIO 3
PIN 5	GPIO 4
PIN 6	GPIO 5
PIN 7	GPIO 6
PIN 8	GPIO 7
PIN 9	Ground

Relay Wiring

Relays are used when a contact closure (normally open or normally closed) is needed to activate a device such as raising or lowering shades, opening or closing a gate, etc.



PIN 1	Normally Closed 1
PIN 2	Common 1
PIN 3	Normally Open 1
PIN 4	Normally Closed 2
PIN 5	Common 2
PIN 6	Normally Open 2
PIN 7	Normally Closed 3
PIN 8	Common 3
PIN 9	Normally Open 3

Use white stripe for Nomally Closed or Normally Open

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