SAVANT

Savant® SmartControl RS232 – Wi-Fi Smart Controller with 2 RS232
Quick Reference Guide

Box Contents

(1) SmartControl RS232 (SSC-W02R-00)
(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 (025-0165-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 90% (non-condensing)
Dimensions and Weight (Product)	
Height	0.64 in (1.62 cm)
Width	2.70 in (6.85 cm)
Depth	2.67 in (6.78 cm)
Weight	Net: 0.25 lb (0.11 kg)
	Shipping: 1.50 lb (0.68 kg)
Power	
Input Power	5V DC 1.2A
Max Power	6 watts
Standards	
Wireless	Wi-Fi (802.11 b/g/n 2.4 GHz)
Security	WPA™, WPA2™, WPA/WPA2™, WEP
Regulatory	
Safety and Emissions	FCC Part 15	CE Mark	C-Tick
Contains FCC ID:	TLZ-CU277
Contains IC:	6100A-CU277
RoHS	Compliant
Minimum Supported Release	
Savant OS	da Vinci 8.2

Network Requirements

Savant requires the use of a wireless network that is configured to make use of at least one of the supported wireless Standards listed in the Specifications Table.

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, a static IP Address or DHCP reservation should be configured. Savant recommends using DHCP reservation within the router. By using this method, static IP Addresses for all devices can be managed from a single UI avoiding the need to access devices individually.

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

Connecting to a Wireless Network

Refer to the **SmartControl RS232 – Wi-Fi Smart Controller with 2 RS232 Deployment Guide** located on the **Savant Customer Community** to connect the SSC-W02R to the local network.
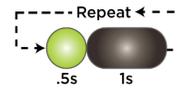
Front Panel

A   Press and hold for 5 seconds while powered On to clear network settings. **Status** LED will blink rapidly when reset is complete.
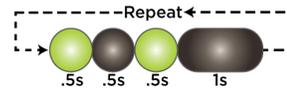
Off: No Power

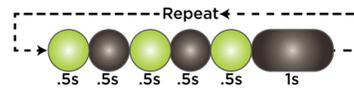**On Solid:** Connected/Communicating with the system Host.

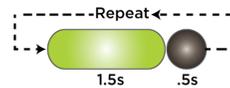**Blinks Once:** In Access Point Provisioning Mode. Ready to be provisioned to the local network.

Repeat | .5s | 1s

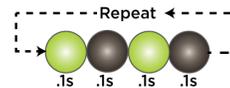**Blinks Twice:** Establishing connection with the local network.

Repeat | .5s | .5s | .5s | 1s

B   **Blinks Three Times:** Connected to the local network. Is connecting to the host.

Repeat | .5s | .5s | .5s | .5s | .5s | 1s

Short Off Blink: Firmware is updating.

Repeat | 1.5s | .5s

Rapid Blink: The reset button was held down for at least five seconds and the SSC-W02R is performing a factory reset.

Repeat | .1s | .1s | .1s | .1s

Rear Panel
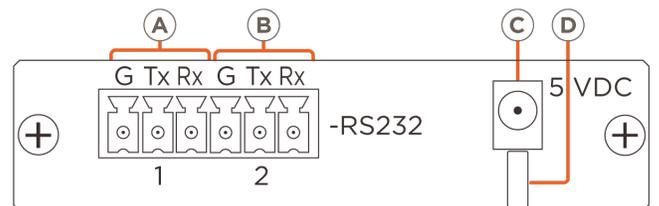
RS-232 Port 1 - 6-Pin Plug-In Connector (Left 3 Pins)		
A	G	Signal Ground
	Tx	Transmit Data
	Rx	Receive Data
RS-232 Port 2 - 6-Pin Plug-In Connector (Right 3 Pins)		
B	G	Signal Ground
	Tx	Transmit Data
	Rx	Receive Data
C	Input Power	5V DC 1.2A Connect to included power supply.
D	Cable Lance	Use with included cable tie to secure power supply connection.

RS-232 Wiring and Connections

A 6-pin screw down type connector is included with each SSC-W02R controller. This connector plugs into the connection on the rear of the controller.

PIN	
PIN 1	GND
PIN 2	TxD
PIN 3	RxD
PIN 4	GND
PIN 5	TxD
PIN 6	RxD
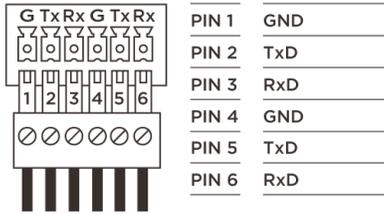
1. Remove Power if power is applied.

2. Pull to remove the terminal block from the rear of the controller.

3. With a small flat bladed screwdriver, turn the screws on the top of connector counterclockwise until the silver crimps in the front of the connector opens enough to slide the wire(s) into the square slots.

4. Insert the stripped wires from the first RS-232 device into ports 1, 2, and 3 observing the correct signals. Do not allow more than ½ inch of bare wire exposed.

5. Turn the screws clockwise until the screw tightens around the wire. Tug on the wire a bit to verify the wires are installed securely.

6. Continue till all wires are installed.

7. Repeat steps 3 - 5 for the second RS-232 device.

8. Plug terminal block back into the rear of the controller.

9. Reapply power.

Additional Documentation

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

- SmartControl RS232 – Wi-Fi Smart Controller with 2 RS232 Deployment Guide - 009-1374-xx
- RS-232 Conversion to DB-9 and RS-422/485 Pin out: Application Note

Regulatory

The following statements are applicable to the SSC-W02R.

FCC Regulations:

15.19. These devices comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) these devices must accept any interference received, including interferences that may cause undesired operation.

15.21. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.105. This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications, However there is no guarantee that interference will not occur in a particular installation, If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving circuit different from that to which receiver is connected.

- Increase the separation between the equipment and the receiver.

- Consult the dealer or experienced radio/TV technician for help.

IC Regulations:

RSS-Gen 7.1.3. These devices comply with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) These devices may not cause interference, and (2) These devices must accept any interference, including interference that may cause undesired operation of the device.

RSS-21- Annexe 9: A 9.4. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.