

WiFi422SCW MODULE INSTALLATION SHEET

Introduction

The WiFi422SCW module provides a wireless link from the host security control panel to the C24 Interactive gateway. This manual provides installation and setup information for WiFi422SCW only.

Features & Specifications

- RS-422 interface
- SSID indication (SCW variant)
- Signal strength indication
- Reset via PGM
- SW WPS Setup
- WPA2 PSK
- UART Serial Data Rate: 115200bps
- Dimensions: 64mm × 24.71 mm
- Indoor range: 32m (120ft)
- Outdoor range: 95m(300ft)
- Power consumption: 66mA (max.) / 12V
- Humidity: 85%, non-condensing
- Wi-Fi Data Rate: 802.11 b/g

Compatibility

This module is compatible with the following SCW control panels: SCW9055-SM-433, SCW9055D-SM-433, SCW9055G-SM-433, SCW9055I-SM-433, SCW9057-SM-433, SCW9057D-SM-433, SCW9057G-SM-433, SCW9057I-SM-433.

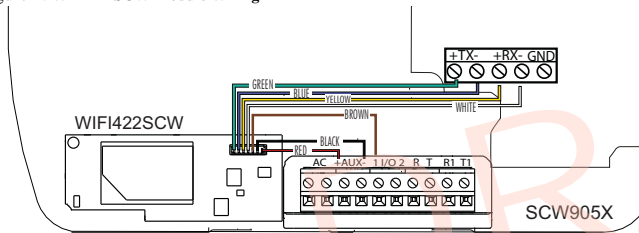
Installation and Wiring

Insert WiFi422SCW module into the SCW905X backplate. Refer to Table 1 below for wiring details.

Table 1: WiFi422SCW Module Wiring Connections

From WiFi422SCW Module	To SCW905X(D)(G)(I)
Red	Aux+ terminal block on the panel
Black	Aux- terminal block on the panel
Brown	I I/O terminal block on the panel
White	Rx- terminal block on communicator
Yellow	Rx+ terminal block on communicator
Blue	Tx - terminal block on communicator
Green	Tx+ terminal block on communicator

Figure 1: WiFi422SCW Module Wiring



Setup & Programming

The WiFi422SCW module receives power from the control panel AUX output and it communicates via the RS-422 interface on the 3G2055-SM-NA or TL2553G-SM-NA communicators.

1. Enter section [851][920].
 - The communicator will send a command to initiate Wi-Fi Protected Setup (WPS).
 - The message "WPS Success" is displayed when setup is complete.

PGM Attribute

Please refer to the SCW9055/9057 Installation Manual to configure PGM1 to Pulse. The default configuration (5 seconds) is recommended.

[920] Initiate Protected Setup

Upon entering this section the WiFi422SCW module shall initiate WPS and connect to the nearest Access Point (AP) also performing WPS. The LCD shall display "WPS Enrollment in Progress".

- Upon failure of enrollment, the LCD shall display "WPS Enrollment Failure".
- Upon successful of enrollment, the LCD shall display "WPS Enrollment Success".

NOTE: If you exit this section, all Wi-Fi sections are blocked until WPS is either successful or has failed. The longest possible lock out is 1 minute.

NOTE: Communicator Option [663] must be 11, configured for Interactive over Gateway. If this section is any other value, Wi-Fi sections are also blocked.

[921] WiFi422SCW Module Factory Default

Default (99)

Enter [00] to perform a factory default, this will disconnect the WiFi422SCW from the Access Point. The installer must perform a WPS with the new Access Point in order to enroll the router.

Once the Access Point is disconnected, the default SSID will display "X".

[922] SSID Display

Enter section [851][922] to obtain the SSID of the currently enrolled Access Point. The keypad will display the SSID of the network that it is using. If the WiFi422SCW is not connected to any Access Point, the keypad will display "X" to indicate the network connection has not been created.

[923] Signal Strength Display

Enter section [851][923] to view the Wi-Fi signal strength. Once in this section, the keypad will display the signal strength with respect to the Access Point it is currently using. If the WiFi422SCW is not associated with any Access Point, the Keypad will display "X-----"

NOTE: This section is available on the display of the control panel only.

Table 2: Signal Strength Display

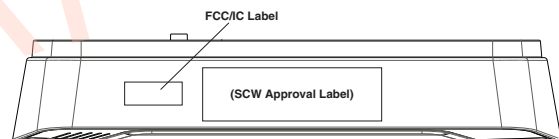
Signal Strength	RSSI Value
No signal	Less than -85
1 Bar	-85 to -76
2 Bars	-75 to -66
3 Bars	-65 to -56
4 Bars	-55 to -46
5 Bars	-45 and up

Troubleshooting

Trouble	Solution
Signal strength is below 3 bars (see Table 2)	Relocate the system until 3 bars or higher is observed.
Error tone being generated / unable to enter WiFi422SCW section	Check WiFi422SCW wiring Perform a power cycle
WiFi422SCW unable to connect to AP	

FCC/IC

This modular transmitter is labeled with its own FCC ID and IC number. When the module is installed inside the host device and the FCC ID/IC of the module is not visible the host device shall display the provided label referring to the FCC ID and IC of the enclosed module. This label is shipped together with the module and it is the responsibility of the integrator to apply it to the exterior of the enclosure as indicated below.



FCC COMPLIANCE STATEMENT

CAUTION: Changes or modifications not expressly approved by DSC could void your authority to use this equipment.

This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio 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:

- Re-orient the receiving antenna
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock # 004-000-00345-4.

This device complies with Part 15 of the FCC Rules and with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. "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.

IMPORTANT NOTE: To comply with FCC and Industry Canada RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter. Failing to comply with any of the above conditions would require new FCC/IC equipment authorization for the host device.

The WLAN module may only be used with host equipment (SCW905X control panels) as listed under section "Compatibility".

DSC

A Tyco International Company

© 2012 Tyco International Ltd. and its Respective Companies. All Rights Reserved.

Toronto, Canada • www.dsc.com

Tech Support: 1-800-387-3630 (Canada, USA), 905-760-3000

Printed in Canada

