X1 SERIES OUTPUT EXPANSION MODULE
Installation and Programming Guide

GET STARTED

The X1 Series Output Expansion Module wires to the 4-pin connector on an X1 Door Controller or on the 4-pin connector on the last XD Door Controller Module of an X1-8 Door Controller. Each X1 Series Door Controller can support up to nine output module PCBs. Each output module supports up to ten outputs, giving the controller up to 92 outputs which includes the onboard outputs of the X1 Door Controller PCB. For any additional outputs, a second Door Controller is required.
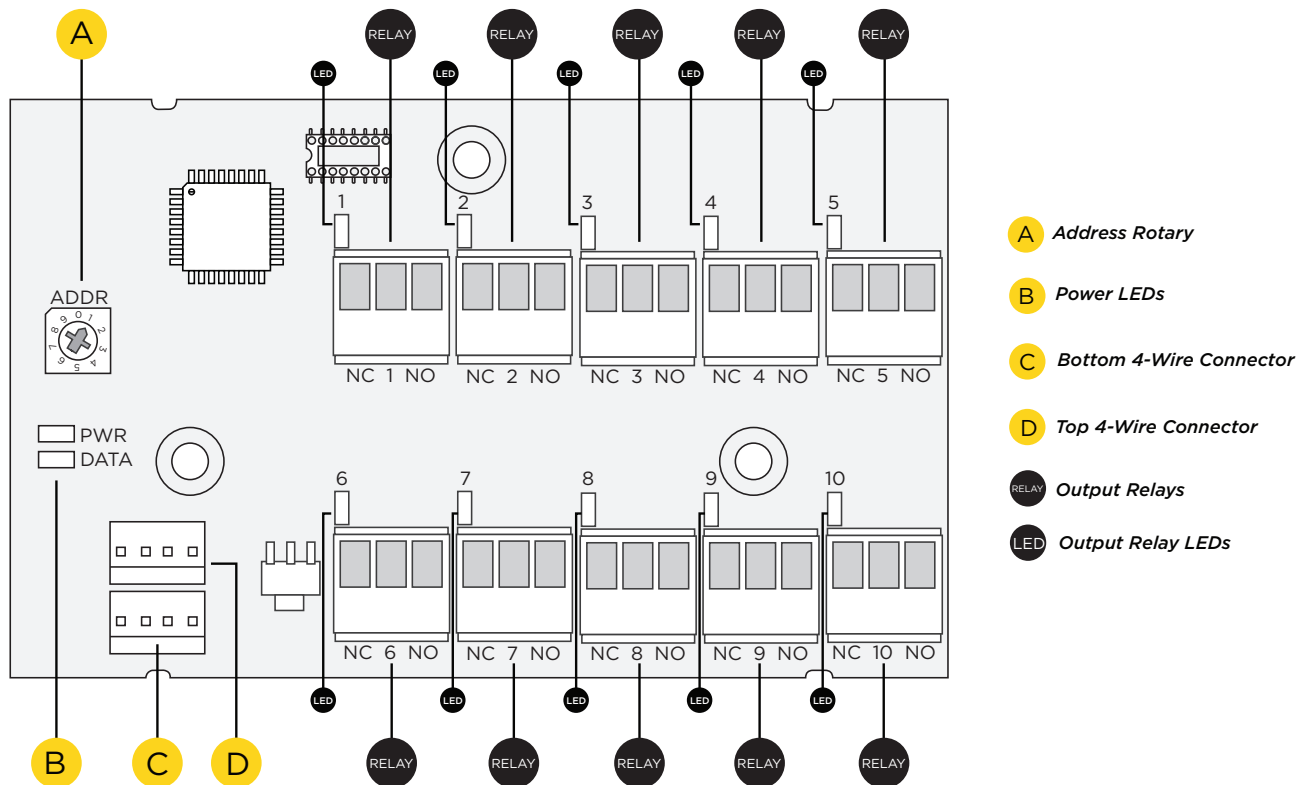
Configuration	Part Number	Included Hardware	Description
X1 Output Expansion Module	X1-OUT-EXP	• Output Module • Enclosure	This accessory includes all needed parts for up to 10 additional outputs in one enclosure. The X1-OUT-EXP can expand the number of outputs through adding two more X1-OUT-PCBs to the enclosure (10 outputs per PCB) and additional X1-OUT-EXPs (up to nine total Output Module PCBs per X1 Series system)
X1 Output Expansion PCB Only	X1-OUT-PCB	• Output Module	This accessory to X1-OUT-EXP is for expanding from 10 to 20 outputs.

For additional information about installing and programming an X1 Series Door Controller from beginning to end, see the following documents:

- X1 Door Controller Installation and Programming Guide - LT-2264
- X1-8 Door Controller Installation and Programming Guide - LT-2289

Output Module PCB Components

Refer to the diagram below throughout the installation.

A *Address Rotary*

B *Power LEDs*

C *Bottom 4-Wire Connector*

D *Top 4-Wire Connector*

RELAY *Output Relays*

LED *Output Relay LEDs*

Plug-In Terminals

Wiring terminals on an X1 Series Output Module done easily by using the plug-in terminals.

1. Insert the wire into the slot.

2. Tighten the screw.

3. Snap the plug-in terminal onto the board.
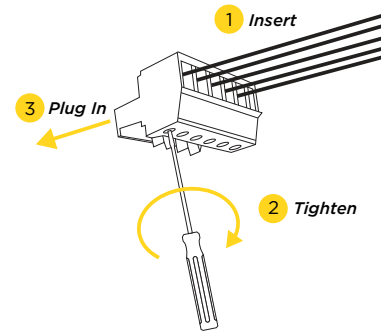
INSTALLATION

1 MOUNT THE OUTPUT MODULE
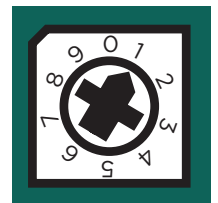
X1 and X1-8 Applications

The metal enclosure for the X1 Output Expansion Module must be mounted to a wall, backboard, or other flat surface within 3 feet of the X1 or X1-8 Door Controller. It is not necessary to remove the PCB when installing the enclosure.

Output Expansion Module

Mounting Holes
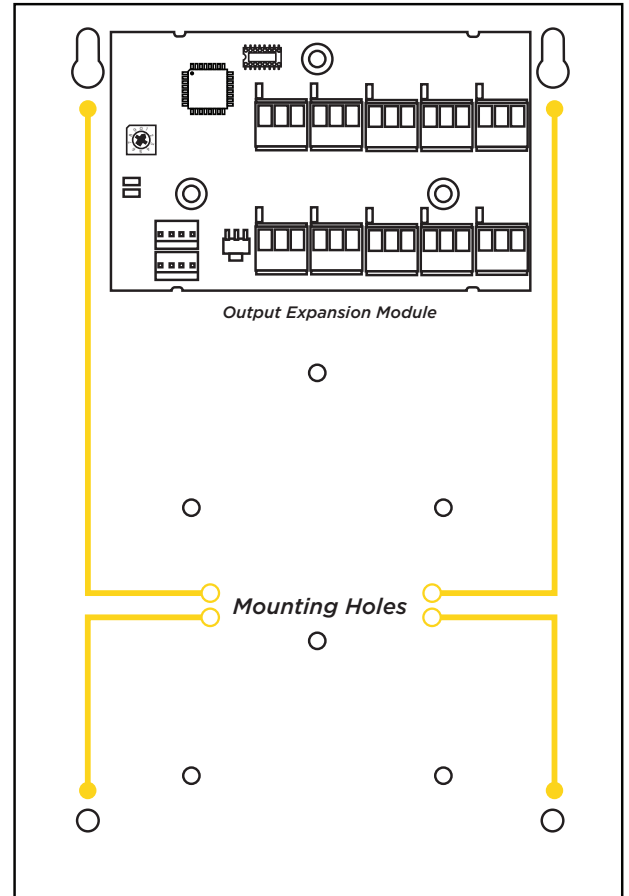
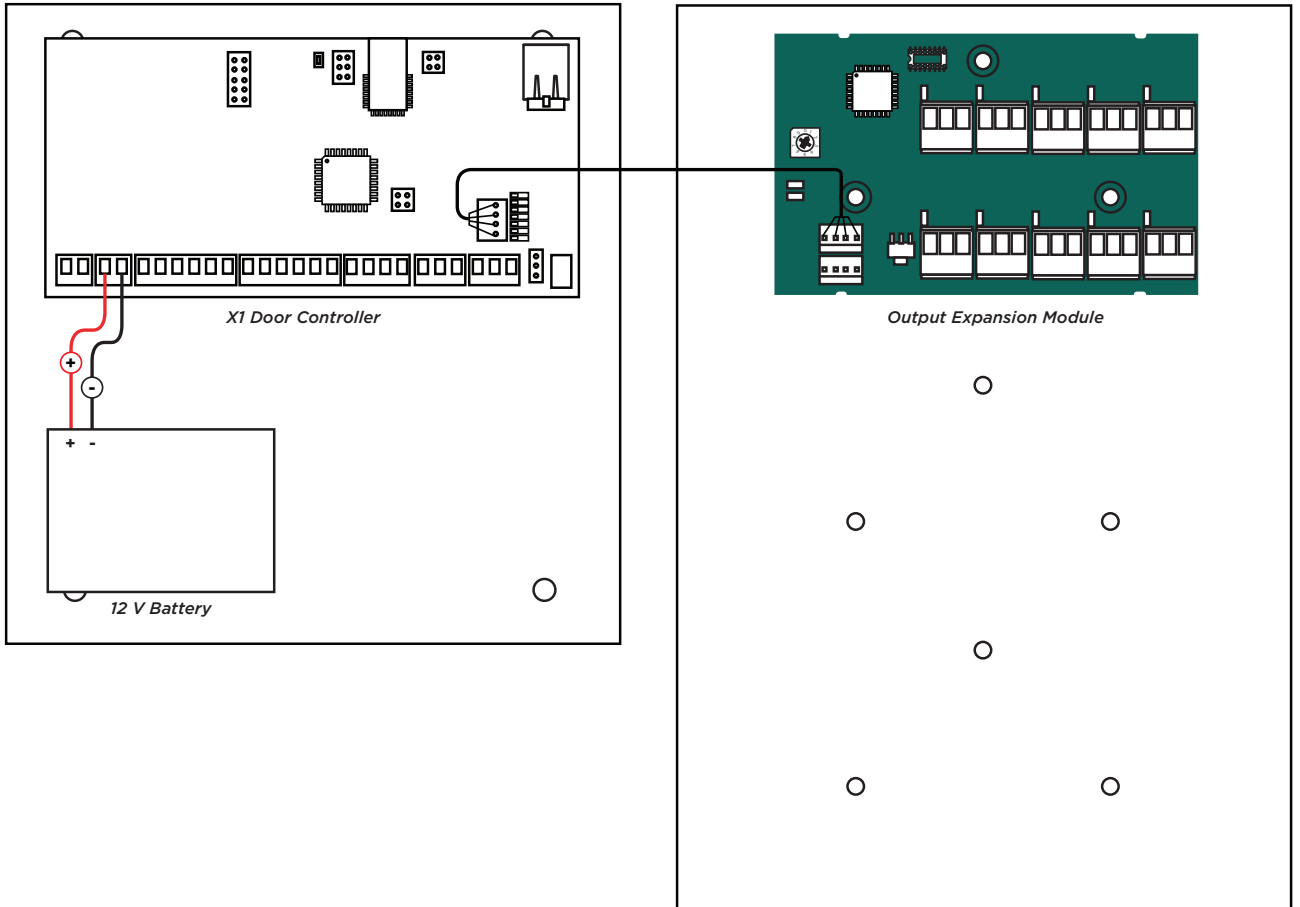# 2 ADDRESS THE OUTPUT MODULE

X1 and X1-8 Applications

The X1 Output Module (X1-OUT-EXP) has a 1 through 9 addressable rotary dial that is factory defaulted to 1. Additional modules need to be addressed in sequence.
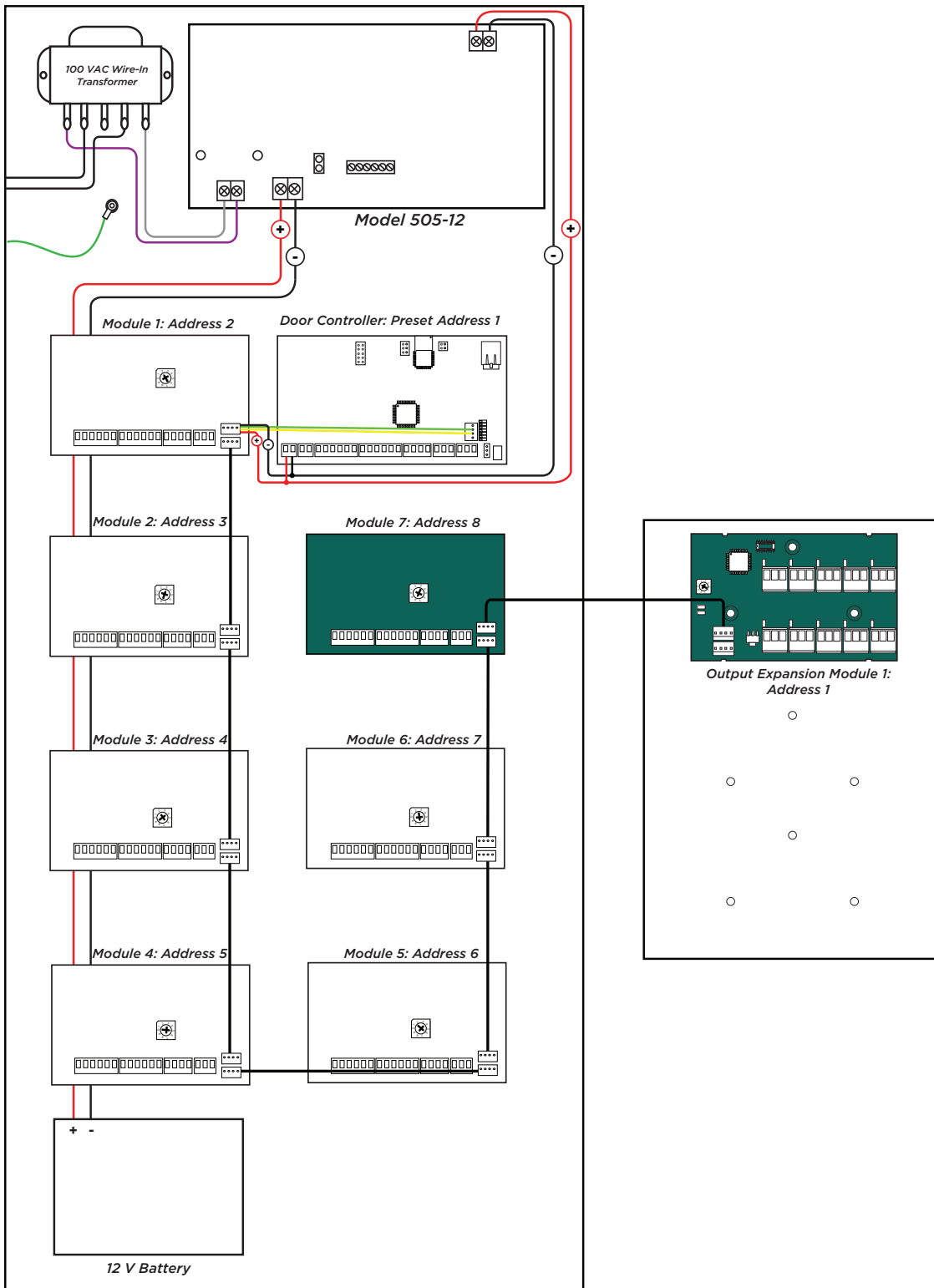
3 WIRE THE OUTPUT MODULE

X1 Applications

Use the included 4-position harness and enclosure knockouts to connect the top connector on the output module to the connector on the door controller module.

X1 Door Controller

12 V Battery

Output Expansion Module

X1-8 Applications

Use the included 4-position harness and enclosure knockouts to connect the top connector on the output module to the bottom connector on the last XD Door Controller Module.

100 VAC Wire-In Transformer

Model 505-12

Module 1: Address 2

Door Controller: Preset Address 1

Module 2: Address 3

Module 7: Address 8

Module 3: Address 4

Module 6: Address 7

Output Expansion Module 1: Address 1

Module 4: Address 5

Module 5: Address 6

12 V Battery

Optional Additional Output Modules

Mount the PCB Onto the Enclosure

The metal enclosure for the X1 Output Expansion Module comes with mounting holes for two additional X1 Output Module PCBs. To mount the additional PCB, use the provided standoffs and screw the PCB onto the 3 mounting holes.
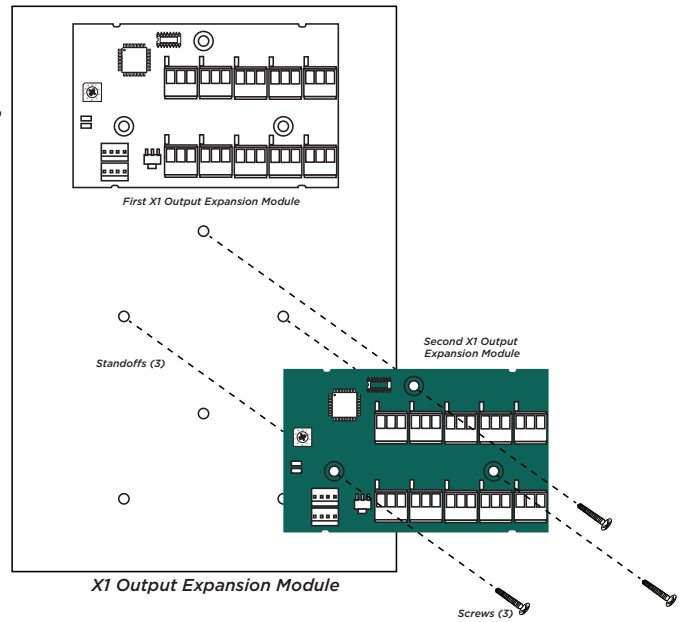
First X1 Output Expansion Module

Second X1 Output Expansion Module
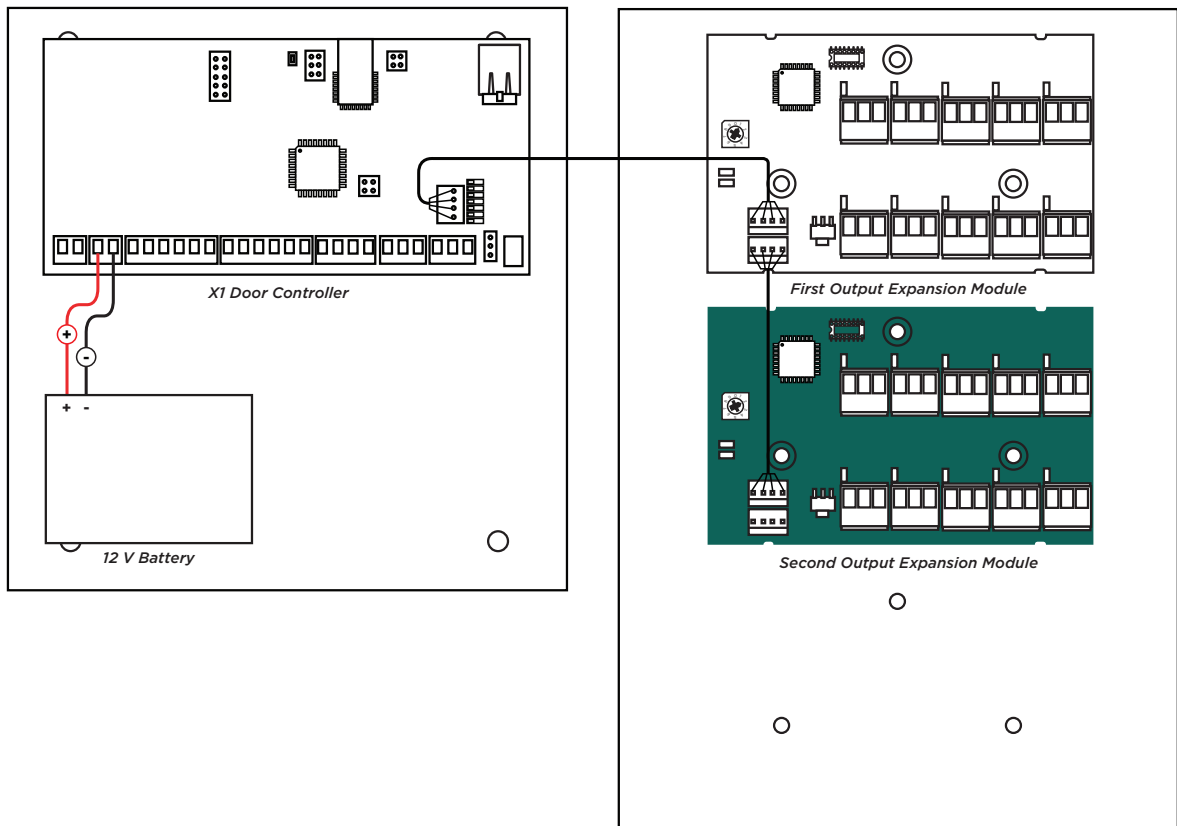
Standoffs (3)

X1 Output Expansion Module

Screws (3)

X1 Applications

Use the included 4-position harness to connect the top connector on the second output module to the connector on the first output module.

X1 Door Controller

12 V Battery

First Output Expansion Module
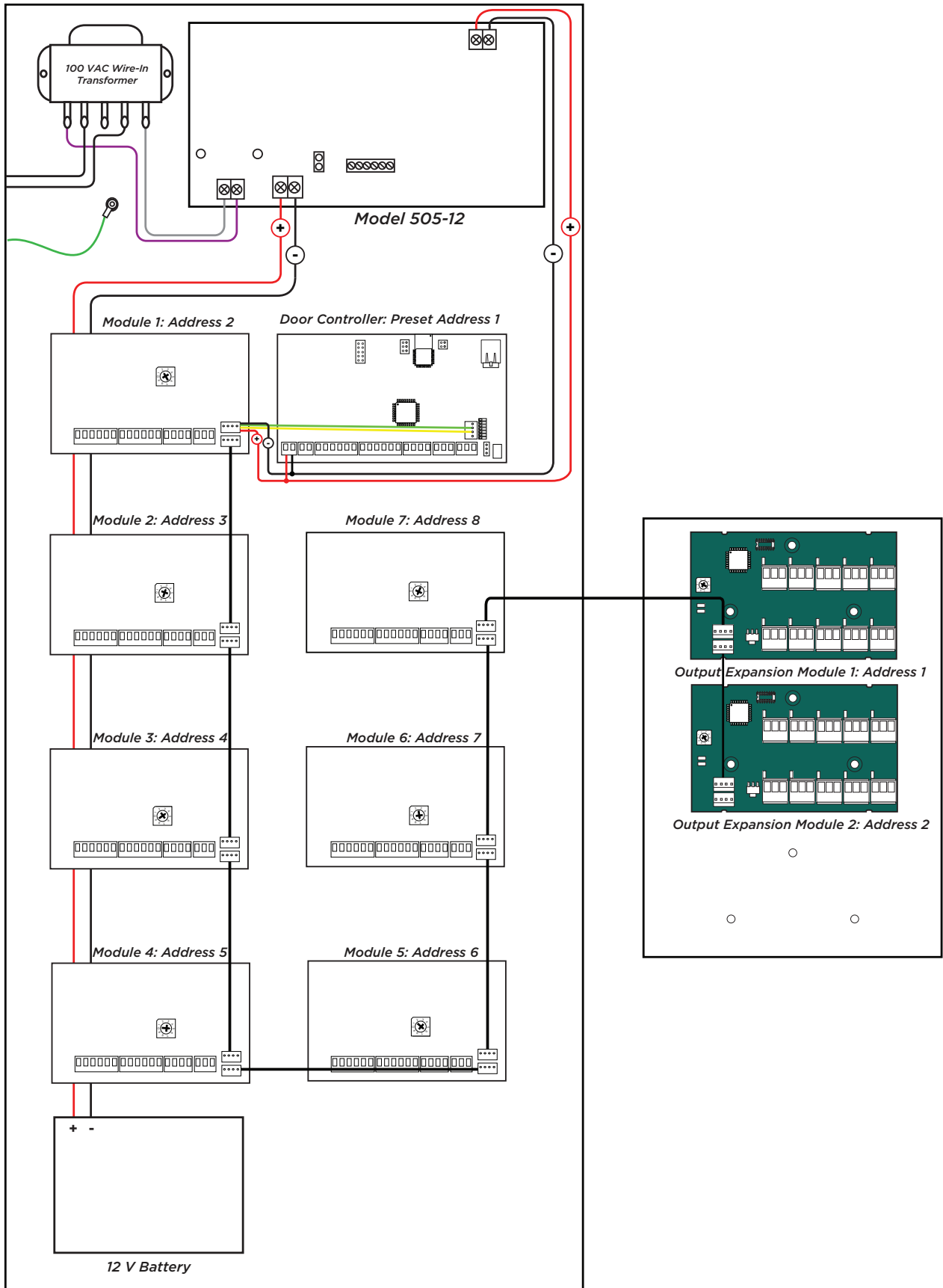
Second Output Expansion Module

X1-8 Applications

Use the included 4-position harness to connect the top connector on the second output module to the connector on the first output module.

100 VAC Wire-In Transformer

Model 505-12

Module 1: Address 2

Door Controller: Preset Address 1

Module 2: Address 3

Module 7: Address 8

Output Expansion Module 1: Address 1

Module 3: Address 4

Module 6: Address 7

Output Expansion Module 2: Address 2

Module 4: Address 5

Module 5: Address 6

+ -

12 V Battery

4

WIRE THE OUTPUT MODULE

To wire for output control, use the 10 terminals on the output module.

The X1 Series Output Module provides 10 Form C (SPDT) 1 Amp relays for controlling access to 10 outputs. The three relay terminals are labeled for normally open (NO) and normally closed (NC) operation. The center terminal is the common.

Normally Closed ○—• NC 1 NO
Common ○
Normally Open ○

Normally Open   *Normally Closed*

NC 1 NO   NC 1 NO

X1 Output Expansion Module
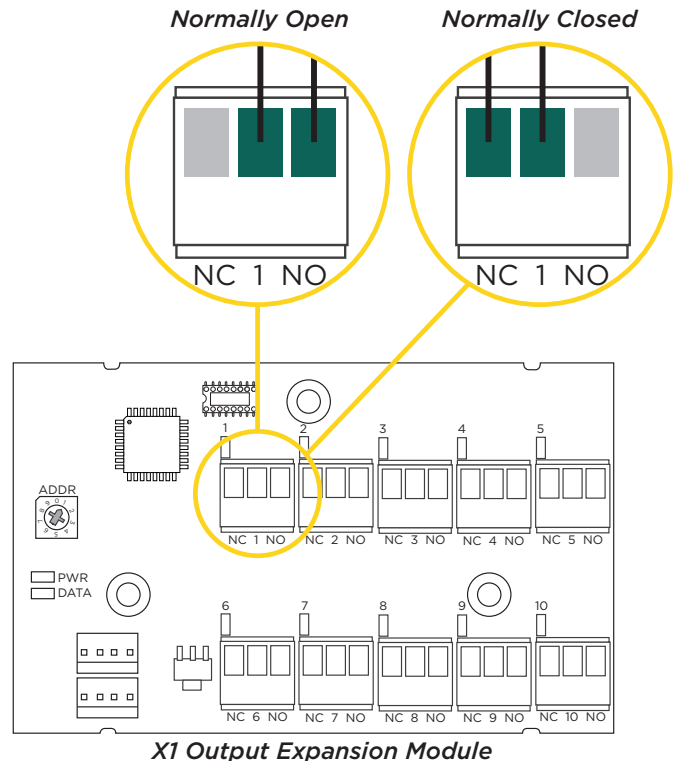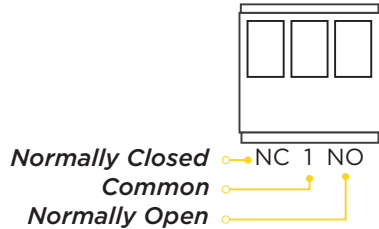
5

PROGRAM IN DEALER ADMIN™

Go to Dealer Admin (dealer.securecomwireless.com) to program the output module. Use the online helpfile or see the instructions below.

1. Go to **System Information**.
2. Under **Outputs**, select the Add icon ⊕.
3. Select the X1 that the output module is connected to.
4. For **Output Name**, use a descriptive name for the output expansion module's location,
5. For each **Relay**, name each output that you intend to use. Unnamed outputs will not be programmed.
6. Press **Save**.

6

TEST THE CONTROLLER

Make sure that the Reader LEDs are on and the Door Controller's Power LED is on. If connected to Wi-Fi, the Wi-Fi LED is on solid. If connected to network, the Network Port light is blinking. For cell and all communication methods, check that Door Controller is communicating with Dealer Admin and Virtual Keypad after Dealer Admin programming is completed.

The output modules each have ten onboard LEDs per output relay. For visual confirmation of the relay operation, the LEDs are on when the relay is on and off when the relay is off.

FCC INFORMATION

This device complies with Part 15 of the FCC Rules. 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.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (7.874 in.) from all persons. It must not be located or operated in conjunction with any other antenna or transmitter.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

INDUSTRY CANADA INFORMATION

This device complies with Industry Canada Licence-exempt RSS standards. Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 7.87 inches (20 cm) to maintain compliance with the General Population limits.

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.*

L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS-102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale de 7.87 pouces (20 cm) séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition du grand public.

X1 SERIES OUTPUT EXPANSION MODULE

Specifications

Primary Power	12 VDC from panel
Relays	Form C, 1 A at 30 V DC
Current Draw When Active	16 mA
Enclosure Dimensions	6.7" W x 13" H x 3.5" D
	17 cm W x 33 cm H x 8.9 cm D
Weight	6 lbs
Environmental	
Temperature	0 ° C to 49 ° C
	32 ° F to 120 ° F
Humidity	5% to 85% RHNC

Compatibility

X1 Door Controller	1-Door Cloud-Based Access Control System
X1-8 Door Controller	8-Door Cloud-Based Access Control System