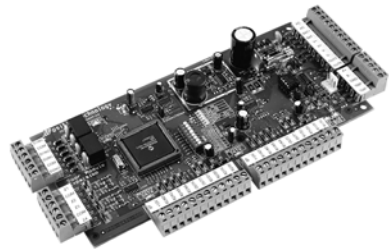


2-Door Expansion Module

CAA470A-EI02
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CA-A470-A
Instructions

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Introduction

Connected to the CT-V900 controller's expansion bus, the 2-Door Expansion Module (CA-A470-A) supports two readers, two BCD keypads, four zone inputs, 6 outputs and two locking devices.

Specifications

CA-A470-A Specifications:

- Readers:** connect 2 per module
- Keypads:** connect 2 per module
- Inputs:** 4 standard without ATZ, 1 tamper
- Outputs:** 6 (open collector)
- Lock Outputs:** 2 lock outputs (Form C relays) each: 15A @ 16VDC (resistive)
- AC Power:** 16VAC, 40VA max.
- Frequency:** 50Hz/60Hz
- Aux. Current:** 500mA (max.)
- Battery:** 12VDC, 7Ah
low battery = 10.2VDC
low battery restore = 12.2VDC
low battery cut-off = 8.5VDC
- Communication:** expansion bus (E-Bus), RS-485, Plug and Play, 3 modules per CT-V900
- Operating temp.:** 5°C to 55°C (41°F to 133°F)

DIP Switches

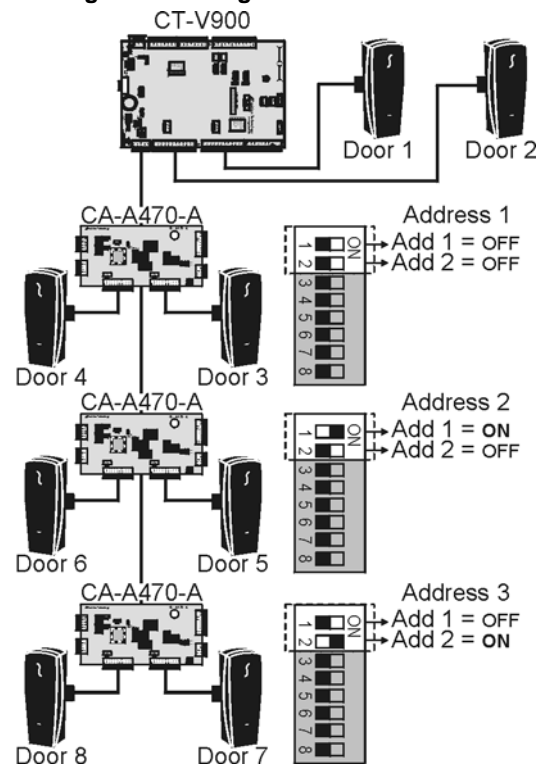
In order for new DIP switch settings to take effect, the 2-Door Expansion Module's power must be disconnected and then reconnected.

Assign Address (1 and 2)

DIP switches 1 and 2 determine the 2-Door Expansion Module's address in the network, regardless of the order that they are connected to the controller. Centaur recognizes the doors according to the DIP switch settings as shown in Figure 1.

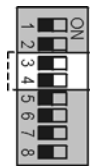


Figure 1: Setting the network address



Lock State during Communication Failure

DIP switches 3 and 4 determine the state of Lock #1 and Lock #2 ONLY during a communication failure between the 2-Door Expansion Module and the controller (CT-V900-A). Normally, the lock outputs follow the Lock Control for the CT-V900-A. Therefore, the DIP switches should have the same setting as the Lock Control for the corresponding doors in Centaur.



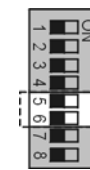
Lock #1 = DIP switch 3 Lock #2 = DIP switch 4
OFF = De-energized: During a communication failure, the normal state of the lock output is De-energized. When Lock #1 or Lock #2 is activated, power is applied to the corresponding lock output to unlock the door. Activation depends on the setting of the DIP switches 5 & 6 (Access during Communication Failure).
ON = Energized: During a communication failure, the normal state of the lock output is Energized. When Lock #1 or Lock #2 is activated, power is removed from the corresponding lock output to unlock the door. Activation depends on the setting of the DIP switches 5 & 6 (Access during Communication Failure).

De-energized: no power in normal state; requires power to activate.

Energized: power in normal state; remove power to activate.

Access during Communication Failure (5 and 6)

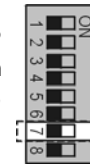
DIP switches 5 and 6 determine the access to the protected doors during a communication failure.



Switch	Setting	During a Communication Failure:
5, 6	5 = off (0) 6 = off (0)	"No Card" Access is denied to all cards and doors are locked until communication is restored.
5, 6	5 = on (1) 6 = off (0)	"2 Cards" Access is granted only when 2 cards of a valid format are presented to the reader.
5, 6	5 = off (0) 6 = on (1)	"All Cards" Access is granted when any card with a valid format is presented to the reader.
5, 6	5 = on (1) 6 = on (1)	"Unlock Door" Doors are unlocked until communication is restored.

Activate Output on Communication Failure (7)

DIP switch 7 determines if OUT5 and OUT6 will pulse during a communication failure. When DIP switch 7 placed in the ON position, the outputs on the device(s) connected to the OUT5 and OUT6 terminals will pulse. For example, the LED on the reader can pulse to advise users that a communication failure has occurred.

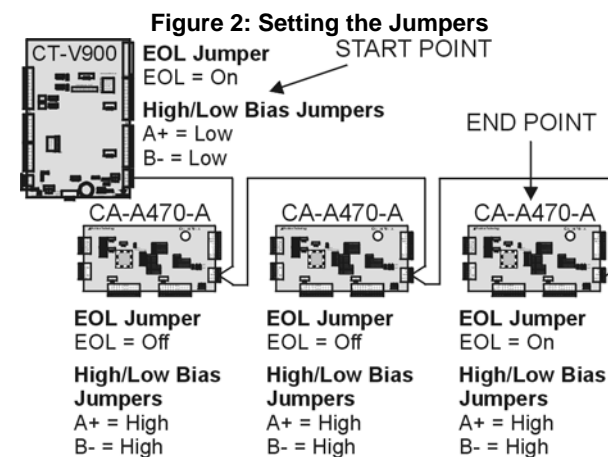


DIP Switch (8)

For future use.

EOL Jumper

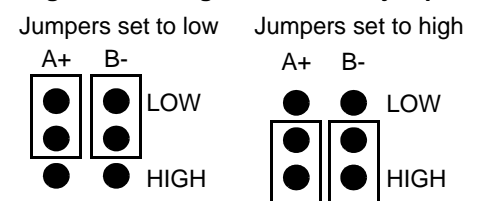
Place the EOL jumper ON if the 2-Door Expansion Module is at the beginning (Start Point) or at the end (End Point) of the E-bus Network (see Figure 2). Otherwise, place the EOL jumper OFF.



High/Low Bias Jumpers

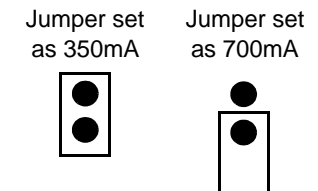
Place the A+ and B- jumpers on LOW only if the 2-Door Expansion Module is at the beginning (Start Point) of the E-bus Network. Otherwise, place the A+ and B- jumpers on HIGH (see Figure 2 and Figure 3).

Figure 3: Setting the A+ and B- jumpers



350mA/700mA Battery Charging Jumper
The 350mA/700mA Jumper allows you to select the charging current for the backup battery of the 2-Door Expansion Module. Charging the battery at 350mA takes longer, but consumes less power. Charging the battery at 700mA takes less time, but consumes more power.

Figure 4: Setting the 350mA/700mA jumper



Programming in Centaur

Using the Centaur Access Control Software, program the inputs, outputs, readers, and keypads connected to the 2-Door Expansion Module. The options are explained in the *Centaur Access Control Software Reference Manual*.

Centaur will identify the 2-Door Expansion Module by its address (see DIP Switches 1 to 4) and will recognize the devices as follows:

	Address 1	Address 2	Address 3
Doors			
Keypad/Reader 1	Door 3	Door 5	Door 7
Keypad/Reader 2	Door 4	Door 6	Door 8
Inputs			
Z1	Input 17	Input 21	Input 25
Z2	Input 18	Input 22	Input 26
Z3	Input 19	Input 23	Input 27
Z4	Input 20	Input 24	Input 28
Outputs			
OUT1	Output 7	Output 13	Output 19
OUT2	Output 8	Output 14	Output 20
OUT3	Output 9	Output 15	Output 21
OUT4	Output 10	Output 16	Output 22
OUT5	Output 11	Output 17	Output 23
OUT6	Output 12	Output 18	Output 24

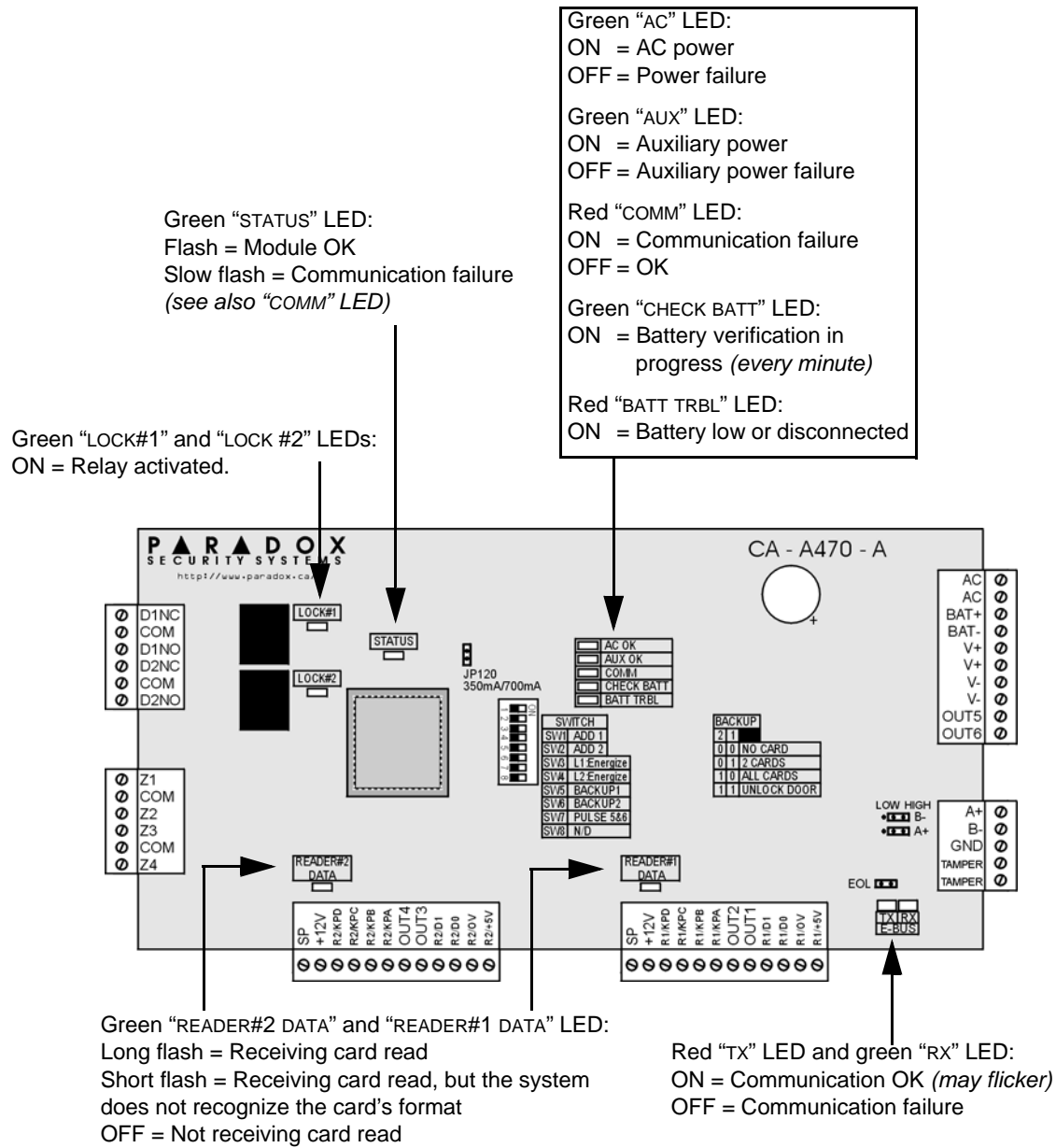


Doors cannot be defined as **Door Type Elevator** (Door Properties window, General tab, Door Type: Elevator) and the module does not support Interlock Inputs (Door Properties window, Inputs and Outputs tab, Interlock Input).

Other modules in the system cannot activate the 2-Door Expansion Module's outputs.

The 2-Door Expansion Module does not support Zone Doubling (see Figure 6).

Figure 5: CA-A470-A indicators



The reader LEDs can be used to verify the reader's connections and programming. If no flashing occurs when a card is presented to the reader, the reader may be installed incorrectly. A short flash indicates that the reader is correctly installed, but the card is the wrong type or that the reader was incorrectly programmed.

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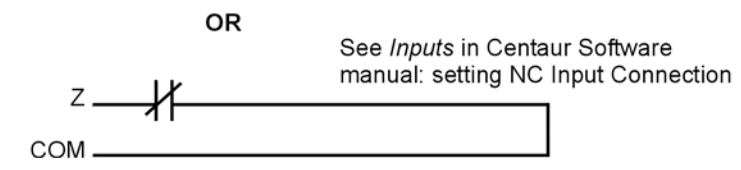
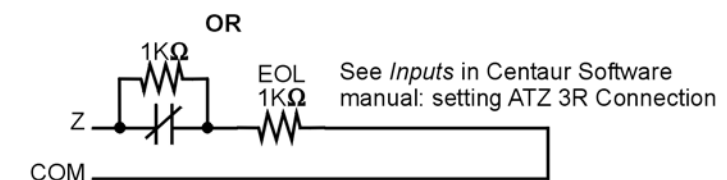
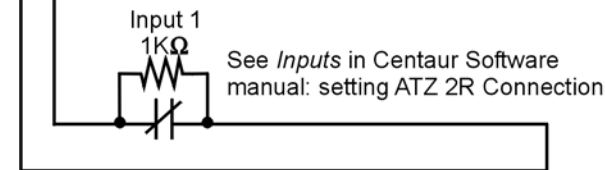
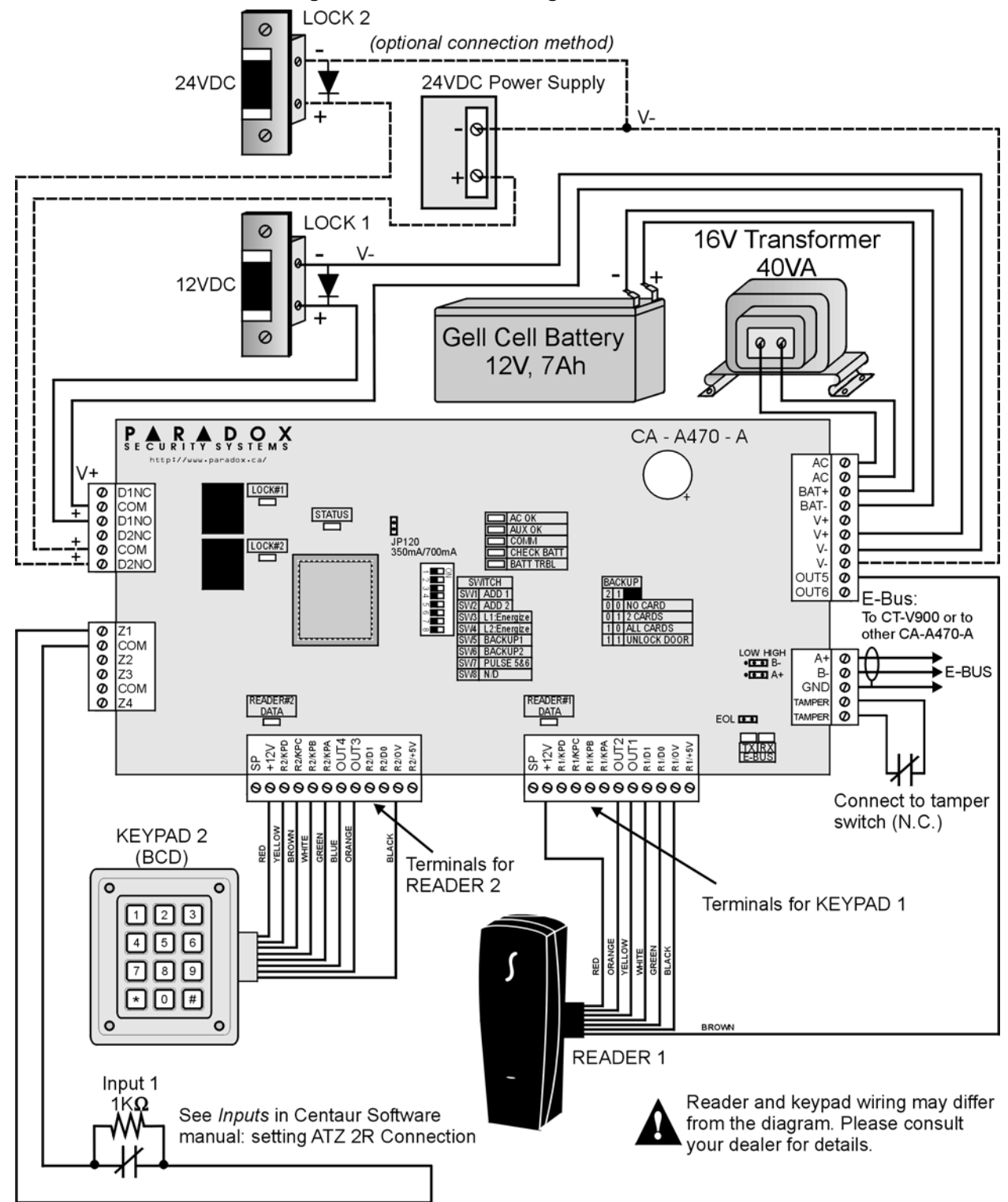
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Figure 6: Connection drawing of the CA-A470-A



Reader and keypad wiring may differ from the diagram. Please consult your dealer for details.

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