

### Ordering Information

Model Number	Stock Number
ARM-44	3006221
BB-RA-44R	3006401 (Optional Surface Mount Black Box)

### Description

The ARM-44 is an auxiliary relay module designed to operate with the PFC-4410RC series release panels to provide an additional 8 independent form C relay outputs in 3 different operating modes. The panel communicates with the ARM-44 via the RS-485 and 24 VDC auxiliary power connections on the PFC-4410RC.

### Operating Modes

The relay board can either be installed inside the PFC-4410RC cabinet or remotely in a separate backbox. The relays can be programmed to either latch or follow the relay activation signal. There is also a disable switch to prevent the relays from operating when the system is being tested or serviced.

The silkscreen under the relay terminals corresponds with the selected operating mode: Mode 1/Mode 2/Mode 3

#### Examples

- Zone 1/Zone 1/Sup: indicates that relay operates with Zone 1 for Mode 1 & 2 and operates as a Supervisory relay in Mode 3.
- Out 1/Sup/Out 1: indicates that relay operates with Output 1 in Mode 1, as a Supervisory relay in Mode 2 and with Output 1 in Mode 3

Mode 1	Relays 1-4 follow the activation of zones 1-4, respectively
	Relays 5-8 follow outputs 1-4 respectively
Mode 2	Relays 1-4 follow the activation of zones 1-4, respectively
	Relay 5 operates on any supervisory condition
	Relay 6 operates on any trouble condition
Mode 3	Relays 7 & 8 operate on any alarm condition
	Relay 1 operates on any supervisory condition
	Relay 2 operates on any trouble condition
	Relays 3 & 4 operate on any alarm condition
	Relays 5-8 follow outputs 1-4 respectively

**Notes:** Relays programmed as a Trouble cannot be made to latch. Relays programmed as supervisory will follow Main board Supervisory Relay without regards to the Latch Switch position. Main

- UL Listed in conjunction with PFC-4410RC
- Provides 8 Form C relay outputs
- Zone type operation - Operates for specific zone/circuit input signals.
- Mounts in cabinet with terminal accessible for ease of wiring
- Disable switch for maintenance
- Selectable latching or follow setting
- 3 operating modes, programmable
- Relay contacts are non-supervised

### Electrical Ratings

11 mA Standby

139 mA Max alarm current\*

\* Maximum current with all relays operating simultaneously.

### Contact Rating

3 amps at 30 VDC max. resistive load

22-12 AWG

Contacts connected to power-limited source

board Supervisory Relay can be programmed LATCHING/NON-LATCHING in the custom program.

### Programming

To disable all relays, move Disable switch to ON.

To make all relays latch, move Latch switch to ON.

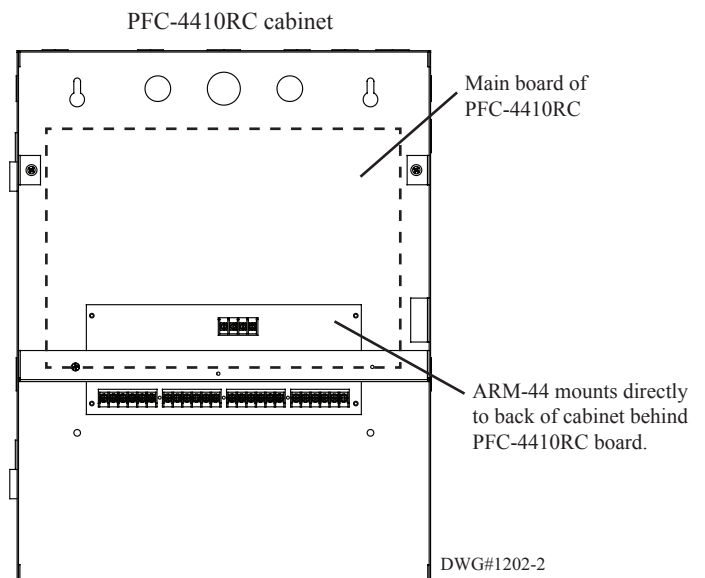
For Mode 1 operation, move Mode 2 and Mode 3 switch to OFF.

For Mode 2 operation, move Mode 2 switch to ON.

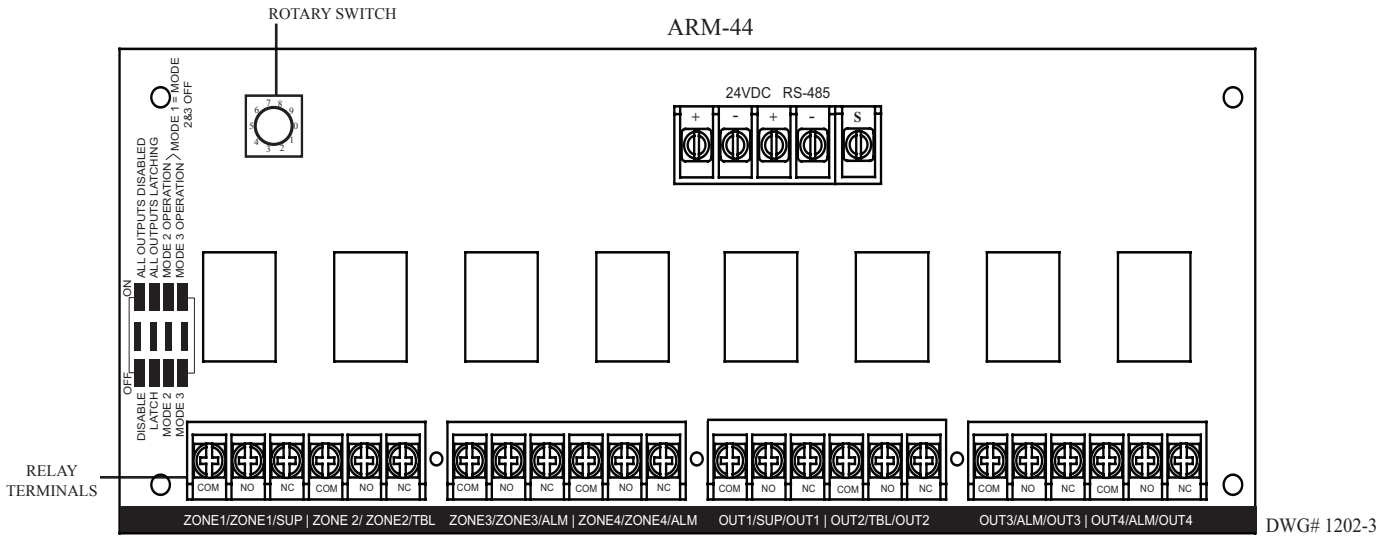
For Mode 3 operation, move Mode 3 switch to ON.

### Installation

To install the ARM-44, remove the main board of the PFC-4410RC by removing battery strain relief and two chassis screws. Lift out main board and set in safe place. The ARM-44 mounts on 4 standoffs on the back of the cabinet with screws provided.



The installer can install up to 4 annunciators or a relay module and 3 annunciators. The installer must set the rotary switch for the number device it is in line. For example, relay board address 1, annunciator address 2, if wired from panel to relay board then annunciator.



All field installed wiring connected to the panel and relay board must maintain a spacing of at least 1/4" between all electric light, power, class 1 or non-power limited fire protective signaling conductors.

2 separate cables are required for connection of the ARM-44 to the PFC-4410RC motherboard.

A 2 conductor cable from the 24VNR terminals of the motherboard connects to the 24VDC terminals of the ARM-44 to supply power.

A separate shielded cable connects from the RS-485 terminals of the motherboard to the RS-485 terminals of the ARM-44.

Move the 120 ohm resistor from the RS-485 terminal of the PFC-4410 to the last device.

