MAXSYS ™

PC4702BP Power Supply/Bell Panel

Installation Instructions

Tamper Wiring

Bell Output Wiring

Polarized Bell

Polarized Bell

2200Ω EOLR

+ Bell
1.8 Amp Max.
- Bell

WARNING
Do Not Route Any Wiring Over Circuit Boards.
Maintain At Least 1" (25.4mm) Separations.

AC   +BELL1- +BELL2-   TAM RED BLK YEL GRN

To 28VAC 175VA Transformer   See Bell Output Wiring Diagram   See Tamper Wiring Diagram   Combus to Control Panel

PC4702 Panel

PC4702 module

The panel will provide a minimum of 60 hours of standby power and alarm with 4.0Ah batteries

AC IN

28VAC 175V   12V 4.0 Ah battery (not supplied) Battery current charge is 350mA   12V 4.0 Ah battery (not supplied) Battery current charge is 350mA

voltage barrier

INSTALL BATTERY AND AC WIRING AS SHOWN ABOVE
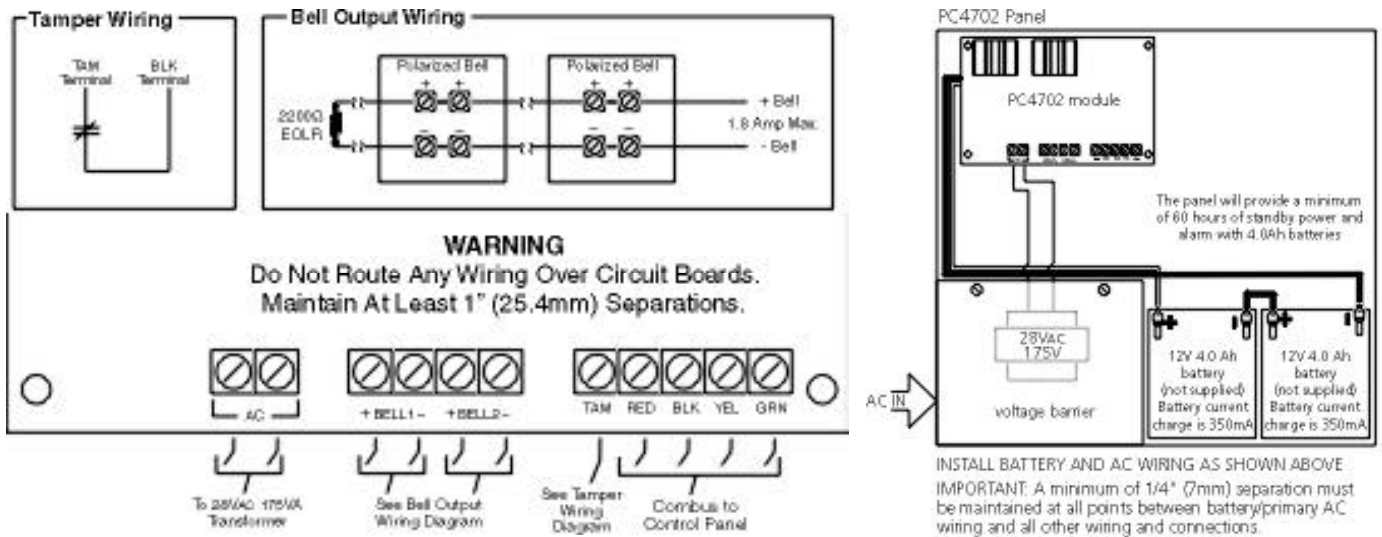IMPORTANT: A minimum of 1/4" (7mm) separation must be maintained at all points between battery/primary AC wiring and all other wiring and connections.

1. Introduction

The PC4702BP is a power supply/bell panel for use with PC4010CF and PC4020CF Maxsys security systems. Up to 4 modules may be installed on one system.

For more information on PC4010CF/4020CF options and programming, please refer to your PC4010CF/4020CF Commercial Fire Installation Guide.

2. Specifications

- Connects to control panel via 4-wire Combus
- Current Draw: 30 mA (from Combus)
- Two supervised Class 'B'/Style 'B' Bell outputs: 24 V_{DC} FWR, 1.8A each. Outputs supervised for opens, shorts and ground with self-restoring short protection
- Supervised battery charger, 24 V_{DC}, 350 mA charging current for sealed lead-acid rechargeable batteries
- Power transformer: 28 V_{AC}, 175 VA (mounted in cabinet)

3. Installing the PC4702BP

3.1 Unpacking

The PC4702BP package includes the following parts:

- One PC4702 circuit board
- one PT1024 28V_{AC}, 175VA transformer
- Four plastic stand-offs (for PC4702 board)
- One - PC4052CR red cabinet, or PC4052C beige cabinet – 12.0"W x 12.0"H x 4.5"D with space for two 12 V_{DC}, 4.0Ah sealed lead-acid rechargeable batteries
- Two - 2200Ω resistors

3.2 Mounting

Install the PC4702BP in the PC4052CP cabinet, mounted in a dry, secure location at a convenient distance from the connected devices.

Perform the following steps to mount the unit:

1. Press the four plastic stand-offs through the mounting holes at back of the cabinet.
2. Secure the cabinet to the wall in the desired location. Use appropriate wall anchors when securing the cabinet to drywall, plaster, concrete, brick or other surfaces.
3. Press the circuit board into the plastic stand-offs to secure the module to the cabinet.

Once the unit is mounted, wiring may be completed.

3.3 Installation and Wiring

Before beginning to wire the unit, ensure that all power (AC transformer and battery) is disconnected from the control panel.

Perform the following steps to complete wiring:

1. Connect the four Combus wires to the PC4702BP. Connect the red, black, yellow and green Combus wires to the RED, BLK, YEL and GRN terminals, respectively.
2. Complete all other wiring according to the wiring diagrams above.
3. Consult the wiring chart on the back of this sheet.

3.4 Applying Power

After all wiring is completed, apply power to the control panel. Connect the battery leads to the battery, then connect the AC transformer. For more information on control panel power specifications, see the control panel Installation Manual.

NOTE: *Do not connect the power until all wiring is complete.*

Please refer to the System Installation Manual for information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer.

4. Enrolling the Module

Once all wiring is complete, the module must be enrolled on the system. To enroll the module:

1. Enter installer's programming by pressing [*] [8] [Installer's Code].
2. Scroll to "Module Hardware" and press the [*] key.
3. Scroll to "Enroll Module" and press the [*] key.
4. Scroll through the different modules until "PC4702 Fire" is displayed. Press the [*] key.
5. The keypad will prompt, "Create tamper on desired unit." After you create and restore the tamper (see Tamper Wiring on front), the keypad will confirm enrollment (e.g. "PC4702 Fire Mode XX Enrolled").

For more information regarding module enrollment, see the control panel Installation Manual.

5. Programming the Module

To access PC4010/4020 programming, enter [*][8] followed by the Installer's code.

Enter the reference numbers indicated below to jump to the PC4702BP programming sections. Enter one of the recommended output options and which partition(s) the output will be active on for each output. Record your programming choices in the space below.

You may also need to program the following sections:

Ref #: [000200] Fire Timeout (Y)
Ref #: [00020300] Bell Cut-off (004)
Ref #: [00020309] Fire Silence Del (000)

Refer to your control panel Installation Manual for more information on these programming sections. Record your programming choices for these sections in your control panel's Programming Worksheets book.

Record your PC4702BP programming choices here:

	Output Option	Partition 1 2 3 4 5 6 7 8

PC4702 module no.:   01

| [0007070101] | **Bell Output 1** | ⌊__⌊__⌋ | ⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌋ |
| [0007070102] | **Bell Output 2** | ⌊__⌊__⌋ | ⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌋ |

Location: _____

Recommended Output Options:
[49] Steady Fire
[50] Temporal Fire
[51] CSFM Fire
[52] Pulsed Fire
[53] Fire Strobe

PC4702 module no.:   02

| [0007070201] | **Bell Output 1** | ⌊__⌊__⌋ | ⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌋ |
| [0007070202] | **Bell Output 2** | ⌊__⌊__⌋ | ⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌋ |

Location: _____

PC4702 module no.:   03

| [0007070301] | **Bell Output 1** | ⌊__⌊__⌋ | ⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌋ |
| [0007070202] | **Bell Output 2** | ⌊__⌊__⌋ | ⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌋ |

Location: _____

PC4702 module no.:   04

| [0007070401] | **Bell Output 1** | ⌊__⌊__⌋ | ⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌋ |
| [0007070202] | **Bell Output 2** | ⌊__⌊__⌋ | ⌊__⌊__⌊__⌊__⌊__⌊__⌊__⌋ |

Location: _____

Bell Loop Wiring Chart

To ensure proper operation, the wire length of the bell loop must be considered.

Consult the following chart to determine the maximum wire length for the bell loop with respect to current.

Bell Loop Load Current	Distance to last bell/siren (ft/m)		
	18 AWG Wire	**16 AWG Wire**	**14 AWG Wire**
1.8A	51/16	81/25	129/39
1.0A	92/28	147/44	233/70
0.7A	132/40	210/64	332/101
0.5A	184/56	293/89	465/141
0.1A	922/279	1467/445	2326/705