

### 1. Introduction

The PC4204CF is a power supply/relay output panel for use with PC4010CF and PC4020CF Maxsys fire/security systems. The PC4204CF provides one power output for system devices and 4 programmable relay outputs. Relay 1 can be used to repower the Combust.

**NOTE:** The PC4204CF is the only power supply which can repower the Combust on PC4020/10CF systems. See the control panel Installation Manual for details. The PC4204CF is the only power supply unit for PC4020/10CF system devices which has UL/NFPA required supervision integrated into the control panel.

### 2. Specifications

- Current Draw: 30 mA (from Combust)
- Minimum 40VA 16.5V transformer supplied
- Battery: 2x7Ah sealed lead-acid (not provided)
- Connects to control panel via 4-wire Combust
- Auxiliary power output: 550mA, 12VDC (based on 24h standby with 2x7Ah batteries)
- Four programmable relay outputs: Form C; contact rating: 2A, 30VDC
- Tamper connection

### 3. Installing the PC4204

#### 3.1 Unpacking

The PC4204CF package should include the following parts:

- One PC4204 circuit board
- One PC4052CR cabinet with space for two 7Ah batteries and one PC4108A module
- Five plastic stand-offs
- One 5A replacement fuse
- 16VAC, 40V Transformer

### 3.2 Mounting

The PC4204CF should be located inside the PC4052CR cabinet, mounted in a dry, secure location. Preferably, it should be placed at a convenient distance from the connected devices.

Perform the following steps to mount the unit:

1. Press the five 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 Combust wires to the PC4204CF. Connect the red, black, yellow and green Combust wires to the RED, BLK, YEL and GRN terminals, respectively. If Relay 1 is being used for Combust Power, connect the Combust wires according to the diagram above ("Wiring for Combust Relay"). Note that for this option, Jumper J1 must also be set for "Combust Relay."
2. Complete all output wiring.
3. Connect the external tamper switch, if used.

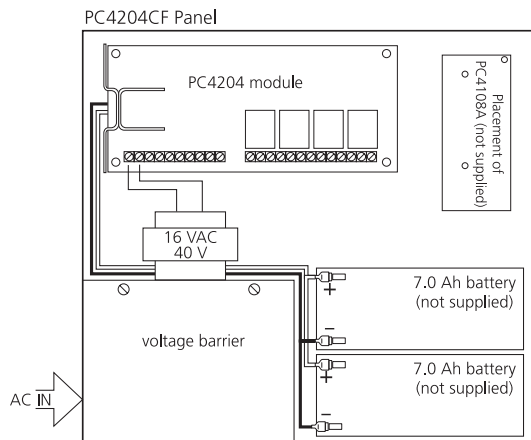
Consult the above wiring diagrams for further information.

**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.**

### 3.4 Applying Power

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

After all wiring is completed, apply power to the control panel. Connect the battery leads to the battery, then connect the AC transformer. Then, connect power to the PC4024: the battery leads followed by the AC transformer.



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.

For more information on control panel power specifications, see the control panel Installation Manual.

### 4. Enrolling the Module

Once connected, the module must be enrolled on the system. To enroll the module, perform the following:

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 "PC4204" is displayed. Press the [\*] key.

5. The message "Create Tamper on Desired Unit" will be displayed. To create the required tamper, secure the tamper zone on the module and then open it. The transition from secure to violated enrolls the module. After this is done, the keypad will display the module number and will confirm enrollment (e.g. "PC4204 Mod 01 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. Each relay output must be programmed. The programming worksheet located below indicates which sections must be programmed.

**NOTE:** The output options listed below are for PC4020 v3.0. For zone programming for previous software versions, see the corresponding programming manual.

**NOTE:** Relay 1 must not be programmed if used for Combustion Power. Ensure that Jumper J1 is set to "Combustion Relay."

**NOTE:** PC4204CF relay outputs cannot be used for fire system notification appliances.

#### FCC COMPLIANCE STATEMENT

**CAUTION:** Changes or modifications not expressly approved by Digital Security Controls Ltd. 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.

**PC4204 Outputs** Module Number: PC4204 #  (1-16 = XX)

|              |                | Partition            |                      |                      |                      |                      |                      |                      |                      | Zone                 | Schedule #           | Pulse Timer          |
|--------------|----------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|              |                | 1                    | 2                    | 3                    | 4                    | 5                    | 6                    | 7                    | 8                    |                      |                      |                      |
| [000702XX01] | PC4204 Relay 1 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| [000702XX02] | PC4204 Relay 2 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| [000702XX03] | PC4204 Relay 3 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| [000702XX04] | PC4204 Relay 4 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

#### List of Output Options

|                     |                       |                       |                       |
|---------------------|-----------------------|-----------------------|-----------------------|
| [00] Fire and Burg  | [15] Failure to Comm  | [30] Zn. Tamp. Follow | [45] Command Output 8 |
| [01] Inv Fire/Burg  | [16] Comms Active     | [31] Zn. Fault Follow | [46] Police Output    |
| [02] Burg Only      | [17] Ground Start     | [32] Armed Stay Mode  | [47] Holdup Output    |
| [03] Inv Burg Only  | [18] Kissoff Output   | [33] Armed Away Mode  | [48] Fire Zone Tbl.   |
| [04] Fire Only      | [19] Combustion Power | [34] 2W Smoke Alarm   | [49] Steady Fire      |
| [05] Inv Fire Only  | [20] Ready Status     | [35] 2W Smoke Trouble | [50] Temporal Fire♦   |
| [06] Arm Status     | [21] Zone Alarm       | [36] Waterflow Alarm  | [51] CSFM Fire        |
| [07] Inv Arm Status | [22] Zone Follow      | [37] Waterflow Tbl.   | [52] Pulsed Fire      |
| [08] Date Schedule  | [23] Duress Output    | [38] Command Output 1 | [53] Fire Strobe      |
| [09] Latched Strobe | [24] Buzzer Follow    | [39] Command Output 2 | [54] Ground Fault     |
| [10] Trouble Output | [25] Remote Operation | [40] Command Output 3 | [55] Common Fire Tbl. |
| [11] Courtesy Pulse | [26] Exit Follow      | [41] Command Output 4 | [56] Bell Trouble     |
| [12] Chime Follower | [27] Entry Follow     | [42] Command Output 5 | [57] AC Status        |
| [13] TLM only       | [28] Zone Tamper      | [43] Command Output 6 | [58] Par Stat Alm Mem |
| [14] TLM and Alarm  | [29] Zone Fault       | [44] Command Output 7 |                       |

- ♦ For PC4204 v2.1 and later