

1. Introduction

The **KT-PC4204** is an output module with four programmable relays and can be used to repower the Combus (see KT-300 installation manual in the Combus Repower Section). This module is also used for elevator control.

Note: Do not use any power supply other than the KT-PC4204 to repower the Combus. If a power supply other than the KT-PC4204 is used, the Combus repower function will not operate as intended.

2. Specifications

- Current Draw: 30 mA (from Combus)
- 16VAC/40VA transformer required
- Maximum 7Ah battery required
- Connects to the controller via 4-wire Combus
- Four programmable relay contacts rated 2A, 30VDC
- AUX current: 1.0A max.
- Tamper contact input
- Can be used to repower the combus
- Can be used for elevator control

3. Installing the KT-PC4204

3.1. Unpacking

The **KT-PC4204** package should include the following parts/items:

- One (1) KT-PC4204 circuit board
- One (1) ground wire assembly
- Five (5) plastic standoffs
- One (1) 5A replacement fuse
- One (1) installation instructions sheet

3.2. Mounting

The **KT-PC4204** should be located inside a compatible cabinet (Kantech part no. KT-4051CAB), mounted in a dry and 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 (5) plastic standoffs 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 standoffs to secure the module to the cabinet.

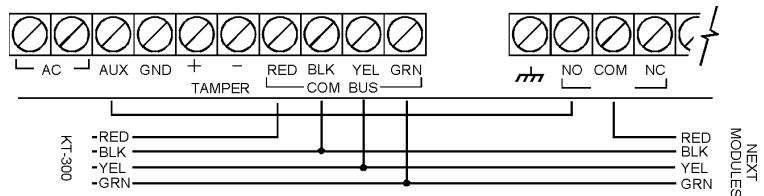
Once the unit is mounted, wiring may be started.

3.3. Installation and Wiring

Before beginning to wire the unit, ensure that all power (AC transformer and battery) is disconnected from the KT-300 controller.

Perform the following steps to complete wiring:

1. Connect the four Combus wires to the KT-PC4204. Connect the red, black, yellow and green Combus wires to the RED, BLK, YEL and GRN terminals, respectively.
If the module is being used for Combus Repower, connect the Combus wires according to the following diagram. For this option, Jumper J1 must also be set for "Combus Relay."



2. Complete all output wiring,
 3. Connect the external tamper switch, if used.
- Consult the above wiring diagrams for further information.

3.4. Applying Power

After all wiring is completed, apply power to the **KT-300**. Connect the battery leads to the battery, then connect the AC transformer. Then, connect power to the **KT-PC4204**: the battery leads followed by the AC transformer.

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

4. Assigning the **KT-PC4204** module

Once all wiring is complete, the module must be assigned to the system. To assign the module, perform the following steps:

1. Establish communication between the PC and the controller,
2. Remove the tamper switch wire (or only the wire if tamper switch is not used),

3. A serial number should be displayed on the screen, in the same window where is the serial number appears, you should see the type of module and on which controller it is connected,
4. From the software, select the functionality of the module and enter the serial number in the appropriate field (see your software reference manual under controller definition -- Assigning modules for more details),
5. If the module is used in "repower" mode, assign an "all valid" schedule to relay 1 and assign the module's functionality to "relay 1 to 4" in your software.

Note: Don't forget to reconnect the tamper switch (or the wire, if there is no tamper switch).

Note: If the module is used as a "repower" module, ensure that Jumper J1 is set to "Combus Relay" position.

Terminal Connections

Module no.: _____

Date of installation: _____

KT-300 Name: _____

KT-300 SITE NAME: _____

KT-300 Serial Number: _____

AUX: _____

COMBUS (FROM): _____

COMBUS (TO): _____

Repower: YES: (if yes, assign an "All valid" schedule to Relay 1) NO:

RLY1: Normally open (NO): _____

Normally closed (NC): _____

RLY2: Normally open (NO): _____

Normally closed (NC): _____

RLY3: Normally open (NO): _____

Normally closed (NC): _____

RLY4: Normally open (NO): _____

Normally closed (NC): _____



FCC & IC COMPLIANCE STATEMENT

CAUTION: Changes or modifications not expressly approved by Kantech Systems Inc. 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. 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. This class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. The KT-300 is also compliant with EN55022: 1994, amendment 1: 1995, Class B.

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