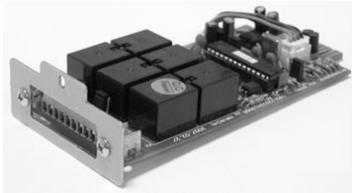


# MINUTEMAN<sup>®</sup>

## Power Technologies

From Para Systems, Inc.

### CPE RELAY CARD USER'S MANUAL



The CPE Relay Card is a UPS management product with 5 relay contacts for monitoring the status and 1 input contact to shutdown the UPS.

**Qualified Service Personnel** must perform the installation and servicing of this equipment. MINUTEMAN accepts no liabilities and is not limited to: injury to the Service Personnel, or damages to; the UPS, or the connected equipment caused by the incorrect installation or servicing of this CPE Relay Card.

#### Installation Procedure of the CPE Relay Card

**NOTE:** The CPE Relay Cards are designed to be Hot Swappable, but there is a remote chance that when Hot-Swapping the CPE Relay Card that the UPS will shutdown. MINUTEMAN recommends following steps 1 through 9 when installing the CPE Relay Card, but to hot-swap, skip to step number 3 and omit steps 7, 8.

1. Turn off all the equipment that is plugged into the UPS.
2. Turn off the UPS and unplug the UPS's power cord from the AC wall outlet.
3. Remove the Option Slot cover plate from the rear panel of the UPS.
4. Insert the CPE Relay Card into the option slot.
5. Install the appropriate cover plate and secure with the retaining screws.
6. Connect the monitoring cable to the terminal block port on the CPE Relay Card.
7. Plug the UPS's power cord into the AC wall outlet and turn the UPS on.
8. Turn on all the equipment that is plugged into the UPS.
9. The installation of the CPE Relay Card is complete.

#### CPE Relay Card Terminal Block Pin-out

Pin #	Description
1	<b>Bypass Active:</b> Normally open relay contact that closes when the UPS is in the Bypass mode.
2	<b>Utility Failure:</b> Normally open relay contact that closes when the utility fails.
3	<b>AC Normal:</b> Normally open relay contact that closes when the AC is normal.
4	<b>Inverter On:</b> Normally open relay contact that closes when the inverter is operating.
5	<b>Low Battery:</b> Normally open relay contact that closes at Low Battery Warning.
6	No Connection.
7	No Connection.
8	<b>Common</b> relay connection for pins 1 through 5.
9	<b>UPS Shutdown:</b> Input Signal ( + positive)
10	<b>UPS Shutdown:</b> Input Signal ( - return)
<b>Note: Apply +6~+25VDC between pin9 and pin10 for 5-seconds to shutdown the UPS</b>	

The relay's contacts are rated for: 40VDC / 25mA.

#### Obtaining Service

1. Call your dealer for assistance. If you cannot reach your dealer, or if they cannot resolve the problem call or fax MINUTEMAN Technical Support at the following numbers; Phone (972) 446-7363, Fax (972) 446-9011 or visit our Web site at www.minutemanups.com. Please have the following information available BEFORE calling the Technical Support Department.
  - a. Your name and address.
  - b. Where and when the unit was purchased.
  - c. All of the model information about your relay card.
  - d. Any information on the failure.
  - e. A technician will ask you for the above information and, if possible, help solve your problem over the phone. In the event that the unit requires factory service, the technician will issue you a Return Material Authorization Number (RMA #).
  - f. If the relay card is under warranty, the repairs will be done at no charge. If not, there will be a charge for repair.
2. Pack the relay card in its original packaging. If the original packaging is no longer available, ask the Technical Support Technician about obtaining a new set. It is important to pack the relay card properly in order to avoid damage in transit. Never use Styrofoam beads for a packing material.
  - a. Include a letter with your name, address, daytime phone number, RMA number, a copy of your original sales receipt, and a brief description of the problem.
3. Mark the RMA # on the outside of all packages. The factory cannot accept any package without the RMA # marked on the outside.
4. Return the relay card by insured, prepaid carrier to:

Para Systems Inc.  
MINUTEMAN UPS  
1455 LeMay Drive  
Carrollton, TX 75007  
ATTN: RMA # \_\_\_\_\_

#### Limited Product Warranty

Para Systems Inc. (Para Systems) warrants this equipment, when properly applied and operated within specified conditions, against faulty materials or workmanship for a period of three years from the date of purchase. For equipment sites within the United States and Canada, this warranty covers repair or replacement of defective equipment at the discretion of Para Systems. Repair will be from the nearest authorized service center. Replacement parts and warranty labor will be borne by Para Systems. For equipment located outside of the United States and Canada, Para Systems only covers faulty parts. Para Systems products repaired or replaced pursuant to this warranty shall be warranted for the un-expired portion of the warranty applying to the original product. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase.

The warranty shall be void if (a) the equipment is damaged by the customer, is improperly used, is subjected to an adverse operating environment, or is operated outside the limits of its electrical specifications; (b) the equipment is repaired or modified by anyone other than Para Systems or Para Systems-approved personnel; or (c) has been used in a manner contrary to the product's User's Manual or other written instructions.

Any technical advice furnished before or after delivery in regard to use or application of Para Systems' equipment is furnished without charge and on the basis that it represents Para Systems' best judgment under the circumstances, but it is used at the recipient's sole risk.

Except as provided herein, Para Systems makes no warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Some states do not permit limitation of implied warranties; therefore, the aforesaid limitation(s) may not apply to the purchaser.

EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL PARA SYSTEMS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Specifically, Para Systems is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, cost of substitutes, claims by third parties, or otherwise. The sole and exclusive remedy for breach of any warranty, expressed or implied, concerning Para Systems' products and the only obligation of Para Systems hereunder, shall be the repair or replacement of defective equipment, components, or parts; or, at Para Systems' option, refund of the purchase price or substitution with an equivalent replacement product. This warranty gives you specific legal rights and you may have other rights, which vary from state to state.