

Programmable MINI DRY CONTACT CARD USER MANUAL



PRESENTATION

FEATURES

This relay I/O card is an UPS management product with 3 relay output contacts for monitoring the status and 1 input contact as a shutdown UPS or a battery test command.

Features:

- Monitor UPS events.
- 3 programmable relay output contacts.
- Configurable normal open or normal close for each relay contact.
- Configurable UPS shutdown delay time.
- Configurable input signal as shutdown UPS or battery test.
- Has the ability to protect up to 3 computers unattended shutdown gracefully.

TECHNICAL SPECIFICATION

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Size	68 x 43 mm
Weight	35 g
Operating Temperature	0 ~ 40° C
Operating Humidity	10 ~ 80 %
Power Input	8 ~ 20V DC
Power Consumption	0.8 Watts

OUTPUT CONTACT RATING

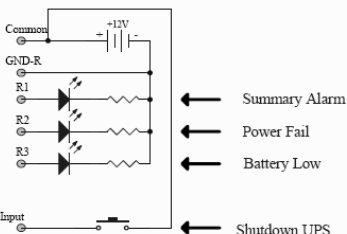
	Maximum	
	DC Voltage	DC Current
Relay R1~R3	24 V	1A

INPUT RATING

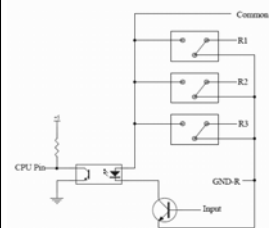
	Maximum	
	DC Voltage	DC Current
Input	24 V	10 mA

APPLICATION EXAMPLE

In this case we'll use the default settings, please set SW1 and SW2 to the ON position. Apply 12VDC to **Common** contact and connect the lamps to **R1~R3** terminals. Install a push button from the Common contact to the input terminal. Press the button for at least 3 seconds to shutdown the UPS.



INTERNAL CIRCUIT



OUTLINE



I/O PINOUT

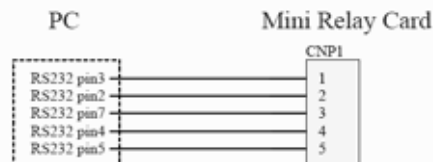
GND-R: Ground for relays	
Common: 12~24VDC	
	Default Alarm Event
R1	Summary Alarm
R2	Power Fail
R3	Battery Low
Input:	Remote shutdown or battery test
	ALL OFF(Default) ALL ON
SW1/2	STOP WORK

PROGRAMMABLE CONTACTS

1. Remove the Jumper on CN1 of the RELAY Card and change the Jumper on JP1 as below



2. Thought the 5pin connector CNP1 connect to the RS232 port to communication with the PC , The connect method between CNP1 and RS232 pin such as below:



3. Open the Mini Dry Contact Card Status Config on the PC, such as below.



Select the right communication port, click 'Open COM Port' button, click 'Polling' button it will show the current setting value. Contacts **R1~R3** can be

configured for different power events, its also can be configure the normal open or normal close for each relay, the input signal can be redefined as shutdown UPS or battery test signal. Meanwhile, the UPS shutdown delay time is also adjustable to a maximum of 9999 seconds, when you complete, please click 'Update All' button, the configure you select will be update , and show UPDATE PASS information

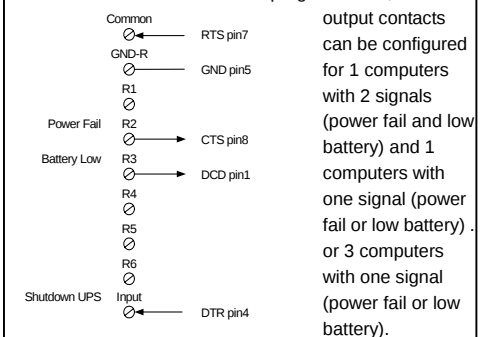


If you want to return the configure to the default setting, you can select the menu "Operation"→"Return Default" item, if the configure complete successful ,it will show "SET DEFAULT PASS" information

POWER OPTION IN WIN 2000/XP

This relay card has the ability to provide UPS signals for Windows NT4/2000/XP/2003. First connect the RS232 port on the PC to the relay card as shown. Then open the power option from control panel and click on the UPS tab to setup the signals polarity, select Positive for Power Fail, Low Battery and UPS Shutdown..

Since the **R1~R6** contacts are programmable, the



output contacts can be configured for 1 computers with 2 signals (power fail and low battery) and 1 computers with one signal (power fail or low battery) . or 3 computers with one signal (power fail or low battery).

Note: All of the computers must have the same earth ground potential. Connect all of the computers input power to the same UPS.

SUBSTANCES AND ELEMENTS IN DELTA UPS THE CONTENT OF TOXIC AND HAZARDOUS SUBSTANCES AND ELEMENTS IN DELTA UPS

Base on china administrative measures on the control of pollution caused by electronic products

Part Name	Toxic and Harzardous Substances and Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr VI)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Metal shell	O	O	O	X	O	O
Plastic shell	O	O	O	O	O	O
Printed Circuit Assembly	X	O	O	O	O	O
Receptacle	X	O	O	X	O	O
Cable and Wire	X	O	O	X	O	O
Connector and Breaker	X	O	X	X	O	O
Battery(VRLA)	X	O	O	O	O	O
Transformer	O	O	O	X	O	O
Others	X	O	O	X	O	O

"O" indicates the content of toxic and harzardous substance(at the homogenous material level) is lower than the threshold defined by standard SJ/T11363-2006
 "X"indicates the content of toxic and hazardous substance(at the homogenous material level) is over the threshold defined by standard SJ/T11363-2006.

Printed Circuit Assembly includes all Printed Circuit Boards and their respective parts.

THE ENVIRONMENTAL PROTECTION USE PERIOD (EPUP)

The product's EPUP is marked on rating label where stick on product.

In order to assure product's EPUP,please follow operation desire in this manual