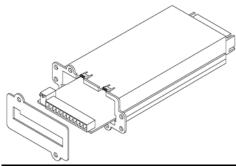
PROGRAMMABLE RELAY I/O CARD USER MANUAL



PRESENTATION

FEATURES

This relay I/O card is an UPS management product with 6 relay output contacts for monitoring UPS status and 1 input contact as shutdown UPS or test battery command.

Features:

- UPS status information presented as 6 contact closures and they are changable.
- Programmable output contacts, monitors the UPS events that users really concern in different practices.
- Customized normal open or normal close for individual relay.
- Configurable UPS shutdown delay time.
- Configurable input signal as shutdown UPS or battery test.
- Has the ability to protect up to 6 computers unattended shutdown gracefully.

TECHNICAL SPECIFICATION

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Size	130 x 60 mm
Weight	200 g
Operating Temperature	0 ~ 40° C
Operating Humidity	10 ~ 80 %
Power Input	8 ~ 20V DC
Power Consumption	1.2 Watts

OUTPUT CONTACT RATING

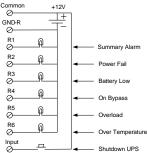
	Maximum	
	DC Voltage	DC Current
Relay R1~R6	24 V	1A

INPUT RATING

	Maximum	
	DC Voltage	DC Current
Input	24 V	10 mA

APPLICATION EXAMPLE

In this case we'll adopt the default settings, please keep SW1 and SW2 to OFF position. Provide less than 24VDC to **Common** contact and connect the lamps to **R1~R6** terminals. Press the button over 3 seconds to shutdown UPS remotely.



Common R1 R2 R2 R3 R4 R5 R6 CPU Pin Input

OUTLINE | GND-R | GOMD-R | GO

I/O PINOUT

GND-R	GND-R: Ground for relays			
Comm	Common: 12~24VDC			
	Default Alarm Event			
R1	Summary Alarm			
R2	Power Fail			
R3	Battery Low			
R4	On Bypass			
R5	Overload			
R6	Over Temperature			
Input:	Input: Remote shutdown or battery test			
Tx: Transmit to PC, connect to sub9-pin2				
Rx: Receive from PC, connect to sub9-pin3				
GND-C : Ground for configuration Tx and Rx pins				
	OFF (Default)	ON		
SW1	Normal open	Normal close		
	for default settings	for default settings		
SW2	Default settings	Customized settings		

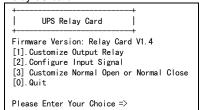
PROGRAMMABLE CONTACTS

COMMUNICATION SETUP

- Connect Tx to pin2, Rx to pin3 and GND-C to pin5 of PC RS232 port.
- In Windows environment, launch Hyper-Terminal application then open the specified COM port.
- Set the following properties: Baud rate: 2400, Data Bits: 8, Parity: None Stop Bit: 1, Flow Control: None

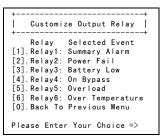
CONFIGURATION

 Press <Enter> to get the main menu from Relay I/O card.



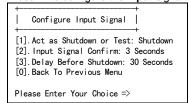
 Press '1' to configure the alarm event for P1. P6

In this menu, contacts **R1~R6** are allowed to assign to different power events.



After finishing the configuration please switch **SW2** to ON position to apply your settings, switch **SW2** back to OFF position to apply default settings.

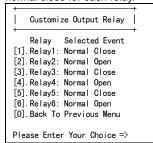
3. Press '2' to configure the Input signal.



In this menu, the input signal can be redefined as shutdown UPS or battery test signal.

Meanwhile, the UPS shutdown delay time is also adjustable to maximum 9999 seconds.

4. Press '3' to configure the normal open or normal close for each relay.

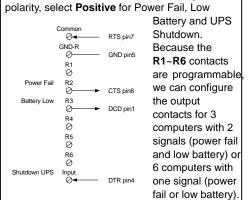


Switch **SW2** to ON position to apply your settings. If the **SW2** is backed to OFF position to apply default settings then you can use **SW1** to control normal open or normal close for all relays.

Press '0' to quit this configuration session.
 The system would prompt you to save or not.
 Press 'Y' to save your settings, 'N' to ignore.

POWER OPTION IN WIN 2000/XP

This relay card has the ability to provide UPS signals for Windows NT4/2000/XP/2003. Firstly please connect the RS232 port from your PC to the relay card shown as the following. Then open the power option from control panel and click on the UPS tab to setup the signals



Note: To ensure all of the protected computers have the same ground level, it is required to connect their input power to the same UPS.