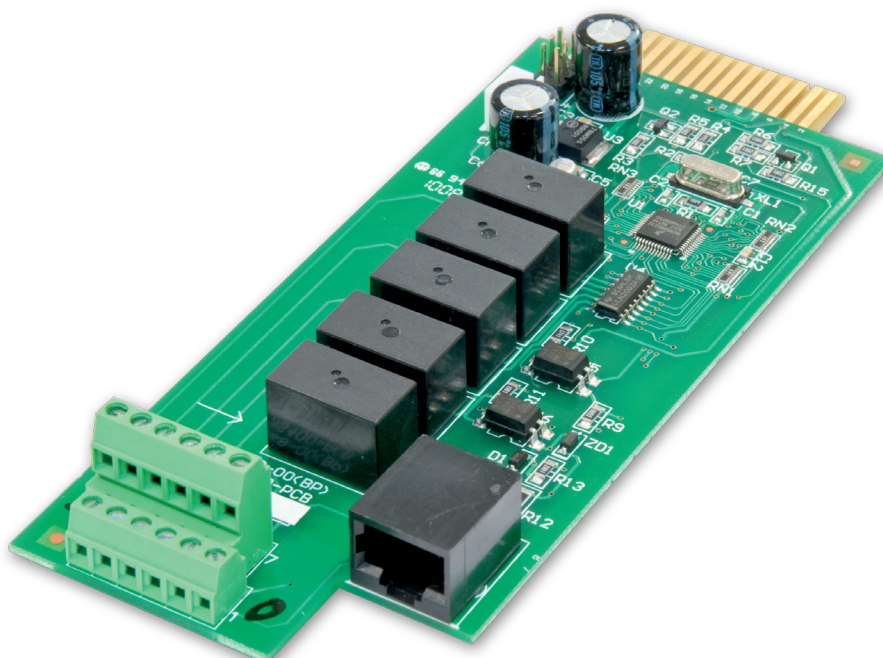


Programmable Relay I/O card



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1. FEATURES

The Relay I/O Card is an UPS management module equipped with 5 configurable relay output contacts and 1 configurable input signal.

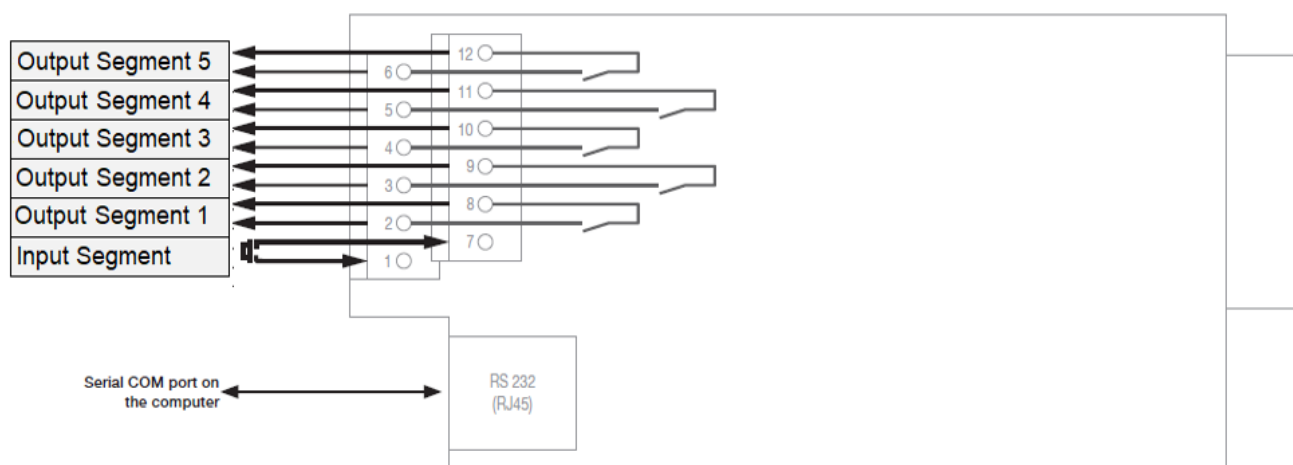
Main features:

- Monitoring of UPS events
- 5 programmable relay output contacts
- Configurable Normally Open or Normally Closed for each relay contact
- Configurable input signal

2. SPECIFICATION

Technical Specification	
Size	130 x 60 mm
Weight	200 g
Operating temperature	0÷40 °C
Operating humidity	10÷80 %
Contact rating	
Input	DRY contact
Relay R1-R5 AC voltage	240 V max
Relay R1-R5 AC current	1 A max

3. INTERNAL CIRCUIT



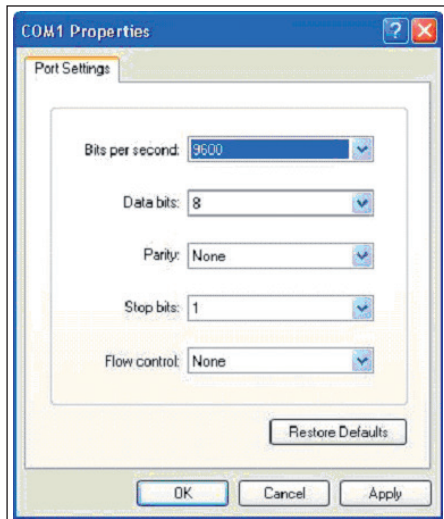
4. COMMUNICATION SETUP



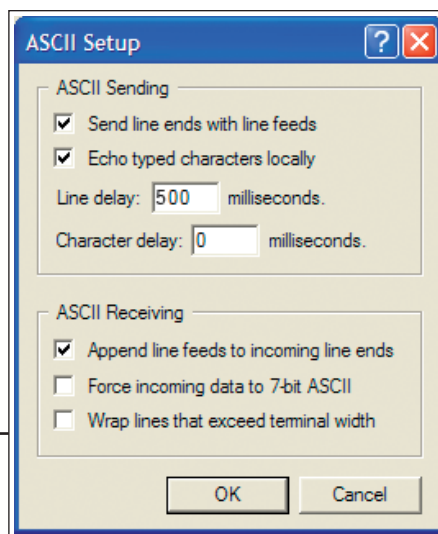
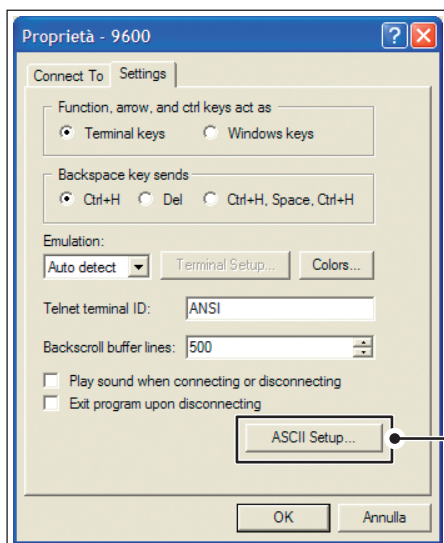
WARNING!

Configure the card with UPS in stand-by or in manual by-pass mode.

1. Connect RJ45 port to pin5 of PC RS232 port.
2. In the Windows environment, launch the Hyper- Terminal program then open the specified COM port.



3. From File >> Property.



5. CONFIGURATION



WARNING!

Configure the card with UPS in stand-by or in manual by-pass mode.

5.1 PASSWORD MENU

- Type <ENTER> continuity 3 times, the password menu displays.
- Enter Password to Activate Maintenance Menu.
- Enter admin.

5.2 DRY CONTACT MANAGEMENT CARD MAIN MENU

The system provides six menu options that allow the user to perform both configuration of settings and verification of the firmware version.

To access the intended function, the user must select the corresponding menu number.

5.2.1 Function Segment Logic

In this menu, you can configure the logic (Normally Open / Normally Closed) for each segment, both Input and Output.

Menu Item	Segment	Default Setting	Possible configuration	Description
Function Segment Logic	"Segment 1 ~ 5 Input Segment"	Open	Open / Close	Set the contact is normally open or close

5.2.2 Output Segment Function Configure

In this menu, you can set the alarm or warning conditions for each output segment.

The card is pre-configured with default settings, which can be modified:

Default configuration for output segment		
Menu Item	Segment	Default Setting
Output Segment Function Configure.	Segment 1	OVERLOAD WARNING
	Segment 2	GENERAL ALARM
	Segment 3	BATTERY TEST FAILURE
	Segment 4	INVERTER GENERAL ALARM
	Segment 5	OVER TEMPERATURE

Possible configurations can be set for each output segment		
	Possible configuration	Description
Output Segment Function Configure	UTILITY FAILURE	Main fail
	GENERAL ALARM	OR operation of UPS alarm
	BATTERY TEST FAILURE	Fail of battery test
	SUMMARY ALARM	OR operation of UPS PCBA alarm
	OVER TEMPERATURE	UPS over temperature
	INVERTER GENERAL ALARM	One or more the follow alarms are present: Out. short circuit Max inverter volt Min inverter volt DC bus + too high DC bus - too high DC bus + too low DC bus - too low DC bus unbalanced DC bus short circ.
	OVERLOAD WARNING	UPS overload
	CHARGER GENERAL ALARM	One or more the follow alarms are present: Charger fault Max charger volt Min charger volt
	BATTERY LOW ALARM	Battery low
	EPO ACTIVE	Echo of the UPS RPO contact

5.2.3 Input Segment Function Configure

In this menu, you can define the action to be performed by the UPS when the input segment is activated.
The card is pre-configured with default settings, which can be modified:

Menu Item	Segment	Default Setting	Possible configuration	Description
Input Segment Function Configure.	Input Segment	REMOTE ON/OFF	BATTERY MODE SHUTDOWN	UPS shutdown on battery mode
			ANY MODE SHUTDOWN	UPS shutdown on every mode
			EMERGENCY POWER OFF	Shutdown the UPS
			REMOTE ON/OFF	Power ON/OFF the UPS

5.2.4 Function Segment Active Delay Time

In this menu, you can set the delay between signal activation and the corresponding action for each segment.

Menu Item	Segment	Default Setting	Possible configuration	Description
Function Segment Active Delay Time	Segment 1 ~ 6	Immediately	Immediately / delay	Set delay

5.2.5 Return to the default Configuration

This menu is used to restore the card to its default settings.

Menu Item	Possible action	Description
Return to Default Configuration	(Y)	Return to Default value (Y) Yes or (N) No
	(N)	

5.2.6 Firmware Version

In this menu, you can view the card's firmware version.

5.2.7 Exit

In this menu, you can choose whether to exit with or without saving the changes.

Menu Item	Possible action	Description
Exit	Exit and Save	Exit setting mode and Save change data
	Exit and Without Save	Exit setting mode and without save change data
	Not Exit	Still stay on setting mode, the menu will return to Main menu

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