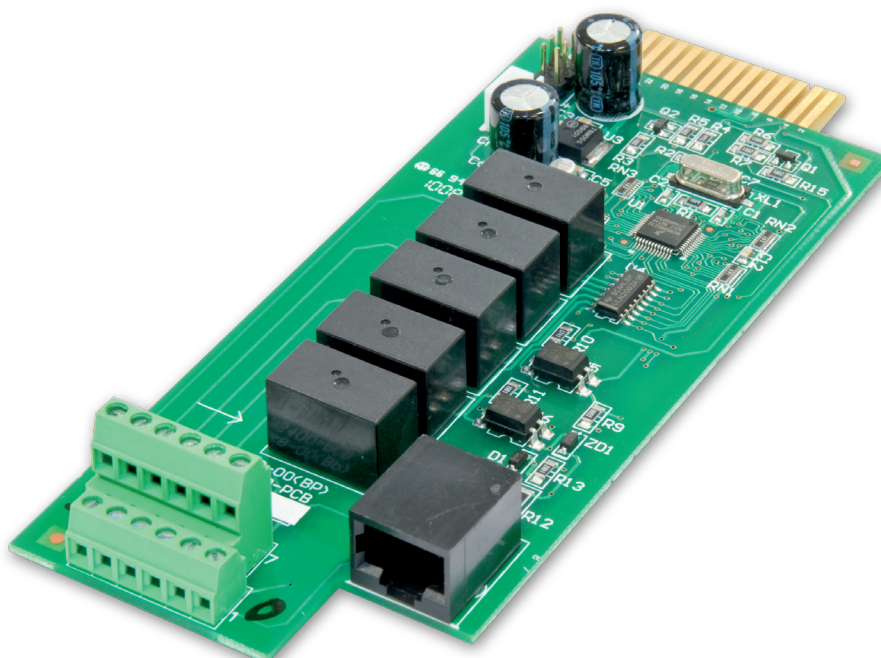


# *Programmable Relay I/O card*



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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.

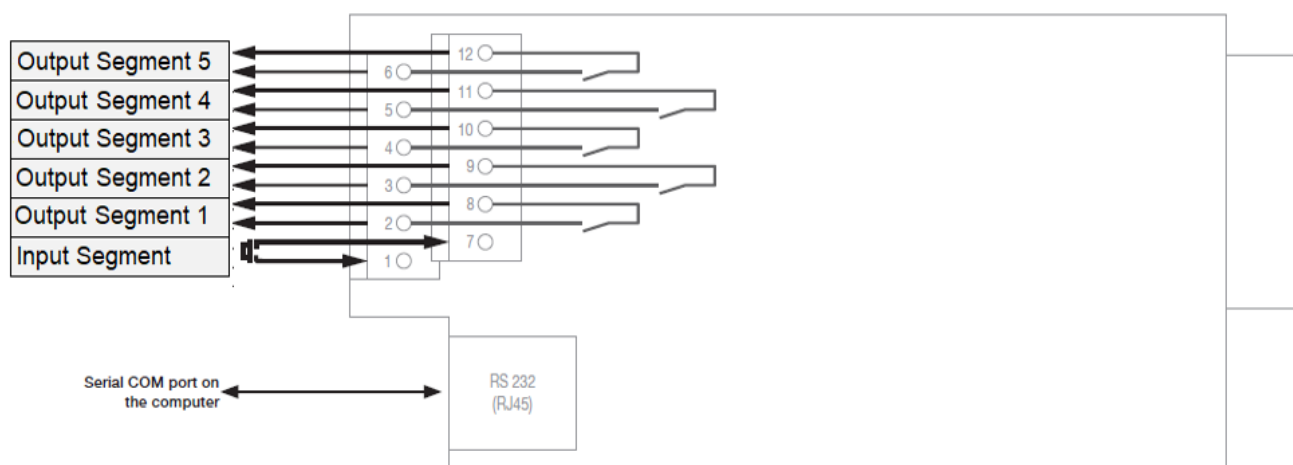
Main features:

- 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



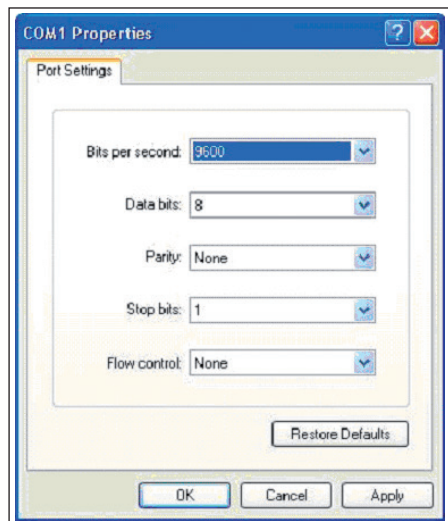
## 4. COMMUNICATION SETUP



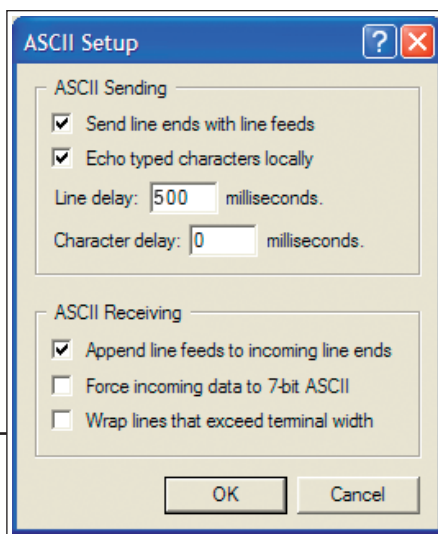
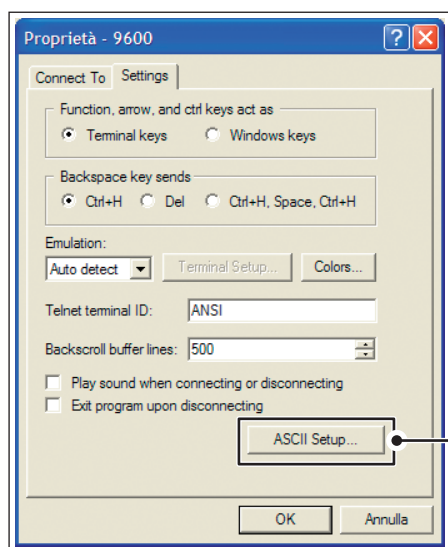
### WARNING!

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:<br>Out. short circuit<br>Max inverter volt<br>Min inverter volt<br>DC bus + too high<br>DC bus - too high<br>DC bus + too low<br>DC bus - too low<br>DC bus unbalanced<br>DC bus short circ. |
|                                                            | OVERLOAD WARNING       | UPS overload                                                                                                                                                                                                                            |
|                                                            | CHARGER GENERAL ALARM  | One or more the follow alarms are present:<br>Charger fault<br>Max charger volt<br>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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