
UC-SOFT PRO

Access Control Software

Examples for Quick Setup Procedure

Unicorn Computers Technology Limited

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1. Configuration of a Two-Door System, Entry with a Card Reader and Exit by using an Exit Button.

- *Hardware Wiring*

Using the default Hardware Wiring (Refer to UC-2000 Installation Manual)

Set UC-2000 Panel address to 1, Baud Rate to 4800 bps.

Check Jumper J2 if it is in 1-2 position

Check Jumper J5 if it is in 1-2 position for using UC-100 or 2-3 position for direct connection without UC-100

- *Software Setup*

Port: (Select **Port** from **Configuration** menu under **Hardware**)

Assume you are using COM1 of Computer COM Port.

Set **Port ID**, **COM Port** and **Baud Rate** as Fig. 1.1

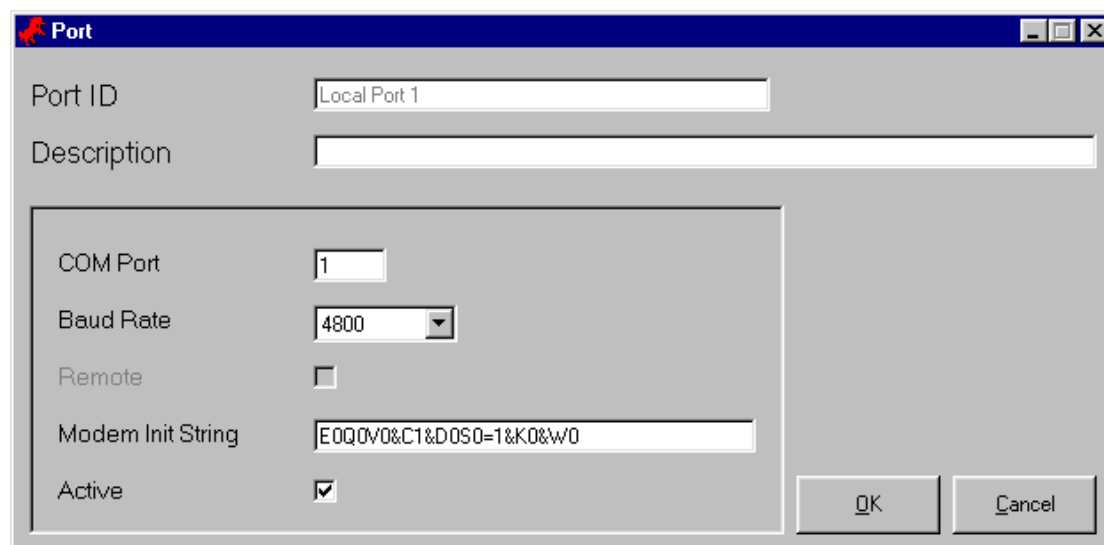


Fig. 1.1

Loop: (Select **Loop** from **Configuration** menu under **Hardware**)

Set **Loop ID**, **Port ID** and **Type** as Fig. 1.2

The screenshot shows a configuration window titled "Loop". The window has a blue title bar with a red icon on the left and standard window controls (minimize, maximize, close) on the right. The main area is light gray and contains the following elements:

- Loop ID:** A text input field containing "Loop 1".
- Description:** A large empty text input field.
- Port ID:** A dropdown menu with "Local Port 1" selected.
- Remote:** An unchecked checkbox.
- Phone no.:** An empty text input field.
- Type:** A dropdown menu with "20mA ACK/NCK" selected.
- Active:** A checked checkbox.
- Buttons:** "OK" and "Cancel" buttons are located at the bottom right of the dialog.

Fig. 1.2

Panel: (Select **Panel** from **Configuration** menu under **Hardware**)
 Set **Panel ID**, **Loop ID**, **Address**, **Panel Type**, **Timezone Group** and **Holiday Group** as Fig. 1.3

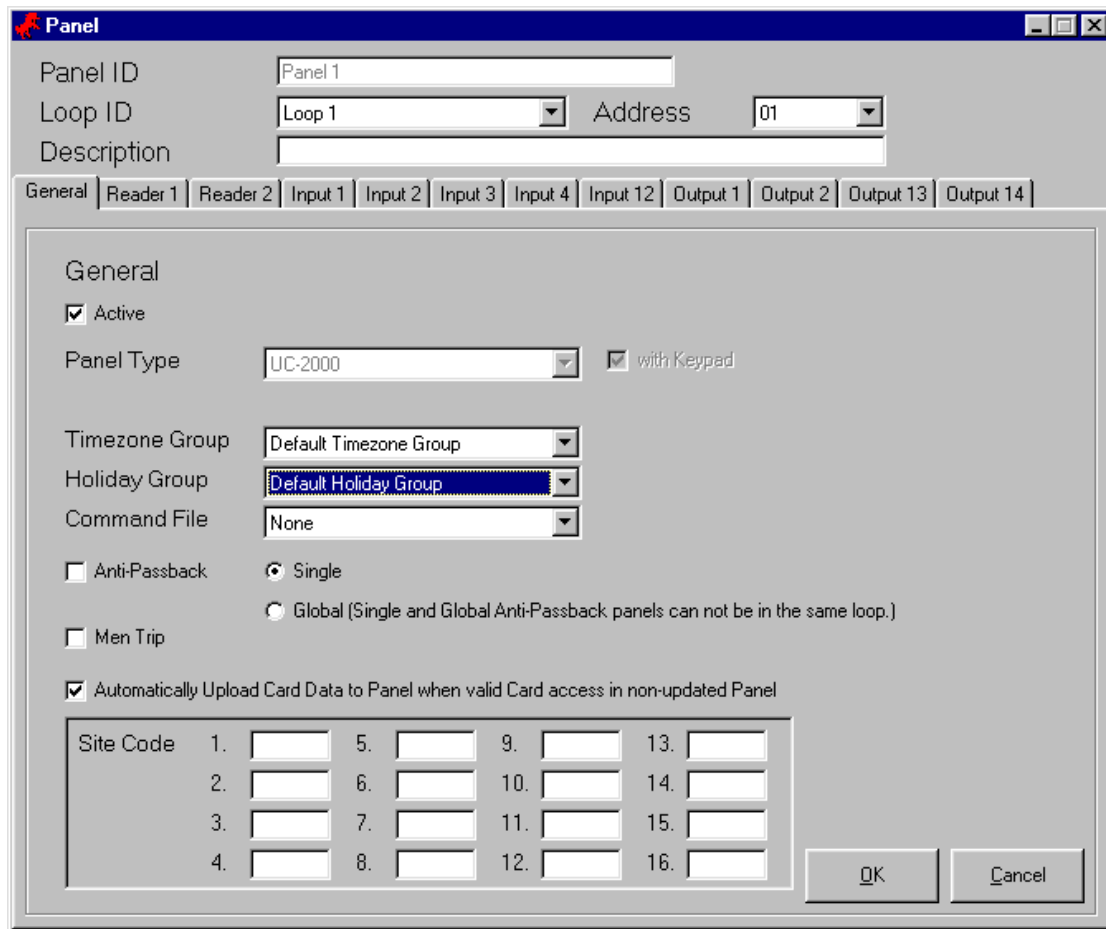


Fig. 1.3

Timezone: (Select **Timezone** from **Configuration** menu)

Select **Timezone Group ID**, then click **Add** button

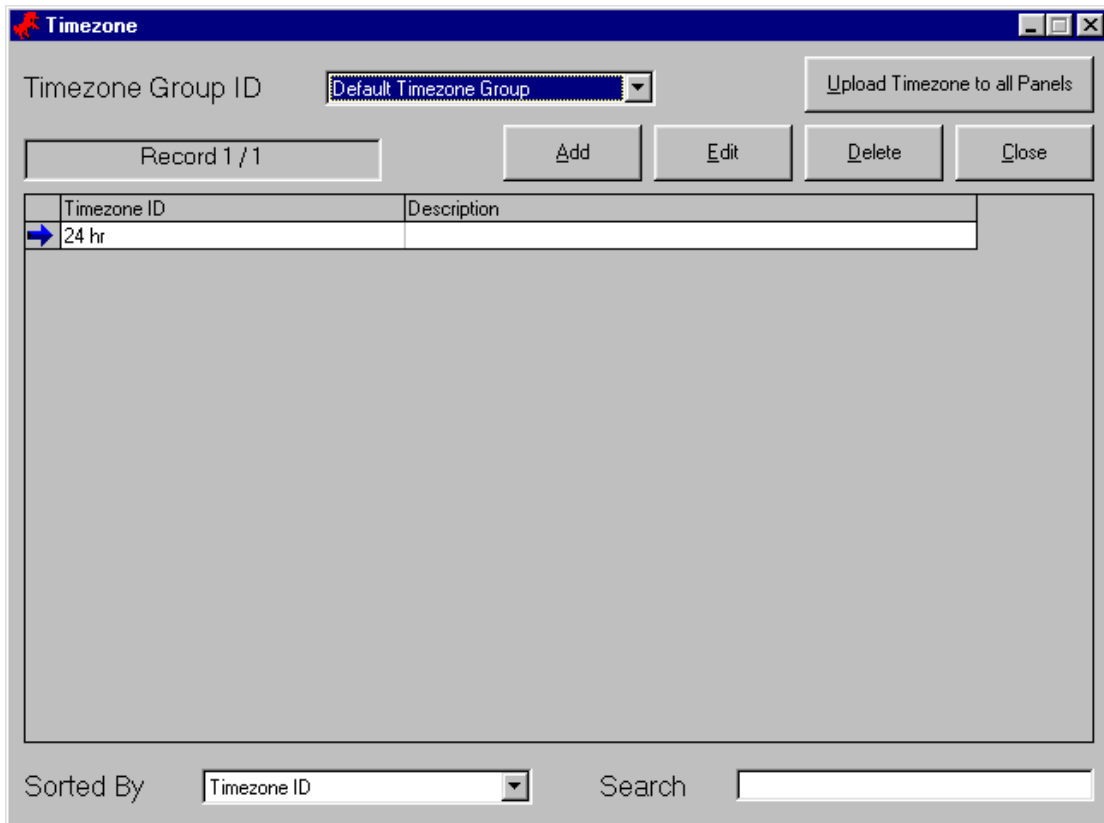


Fig. 1.4

Set **Timezone ID** and click **Add** button to add **Timezone Slot**

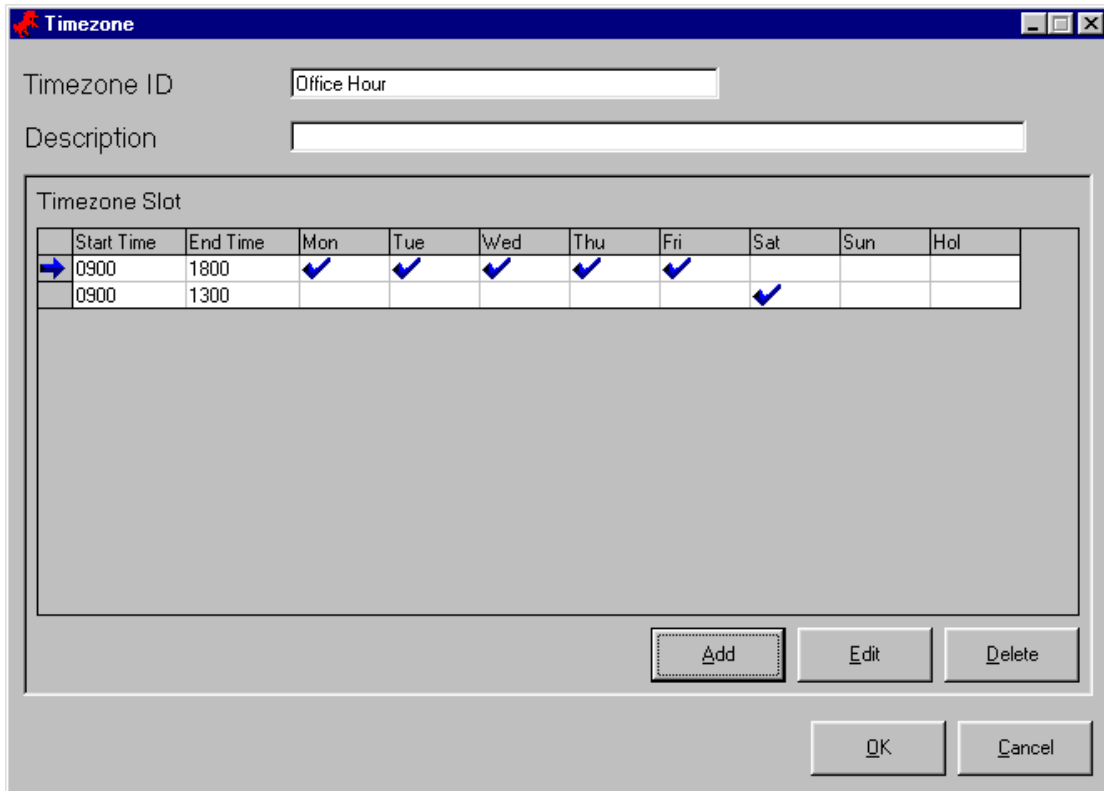


Fig. 1.5

Holiday: (Select **Holiday** from **Configuration** menu)

Select **Holiday Group ID**, then click **Add** button

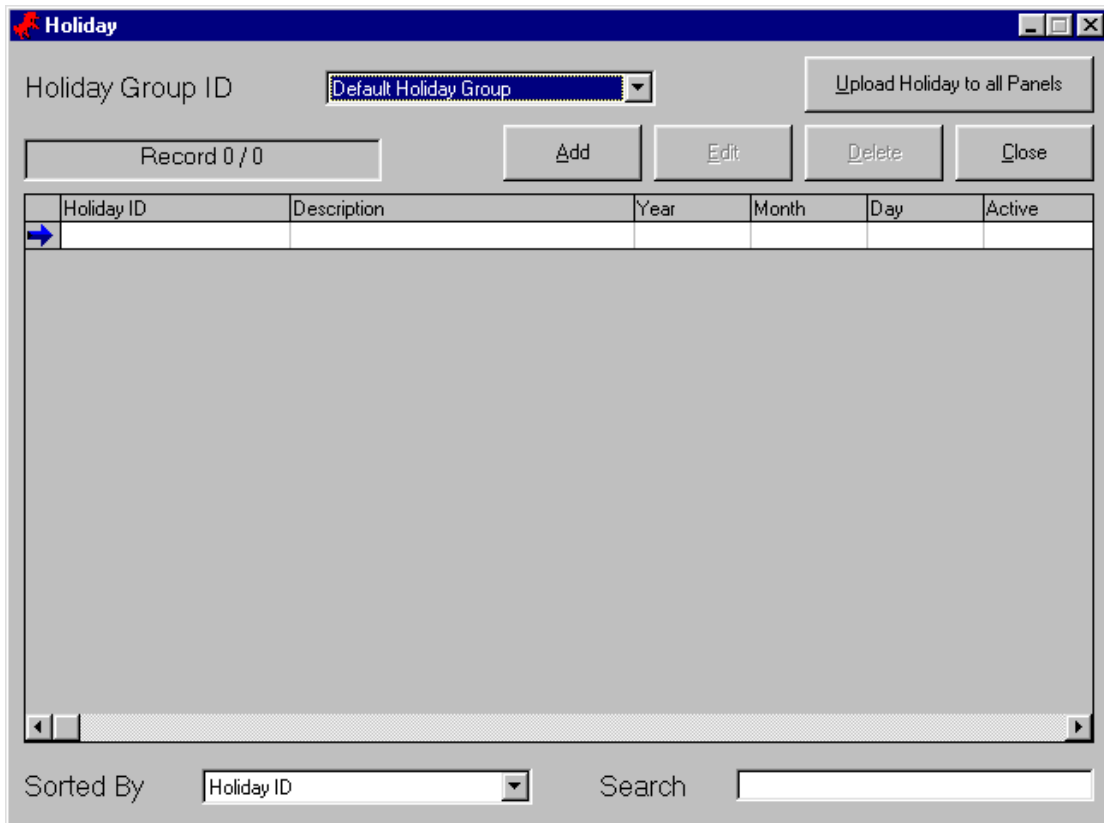


Fig. 1.6

Set **Holiday ID**, Apply to all years, Year, Month, Day

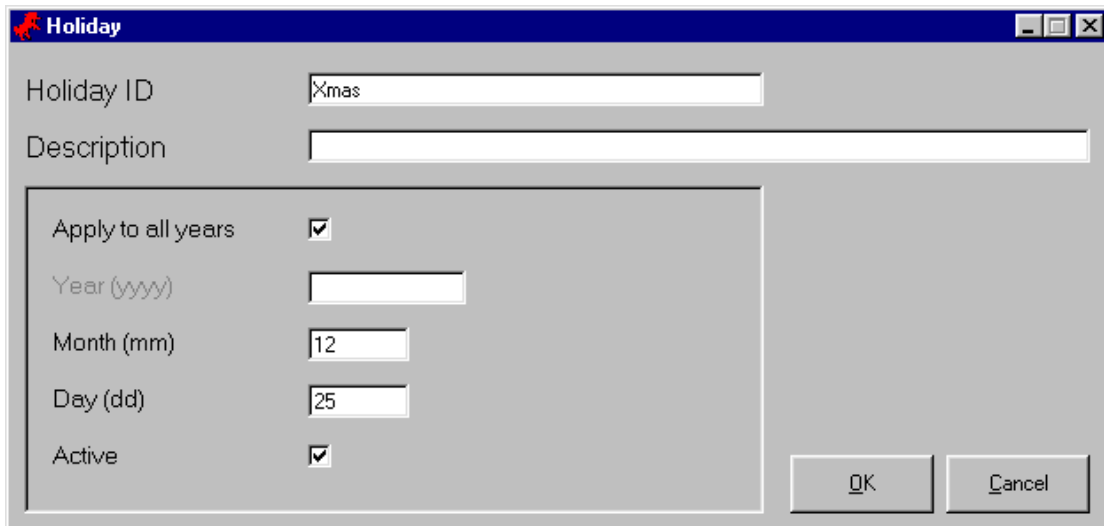


Fig. 1.7

Upload Setup to Panel: (Click Control Button in Main Screen)

Click **Upload setup to panel** button

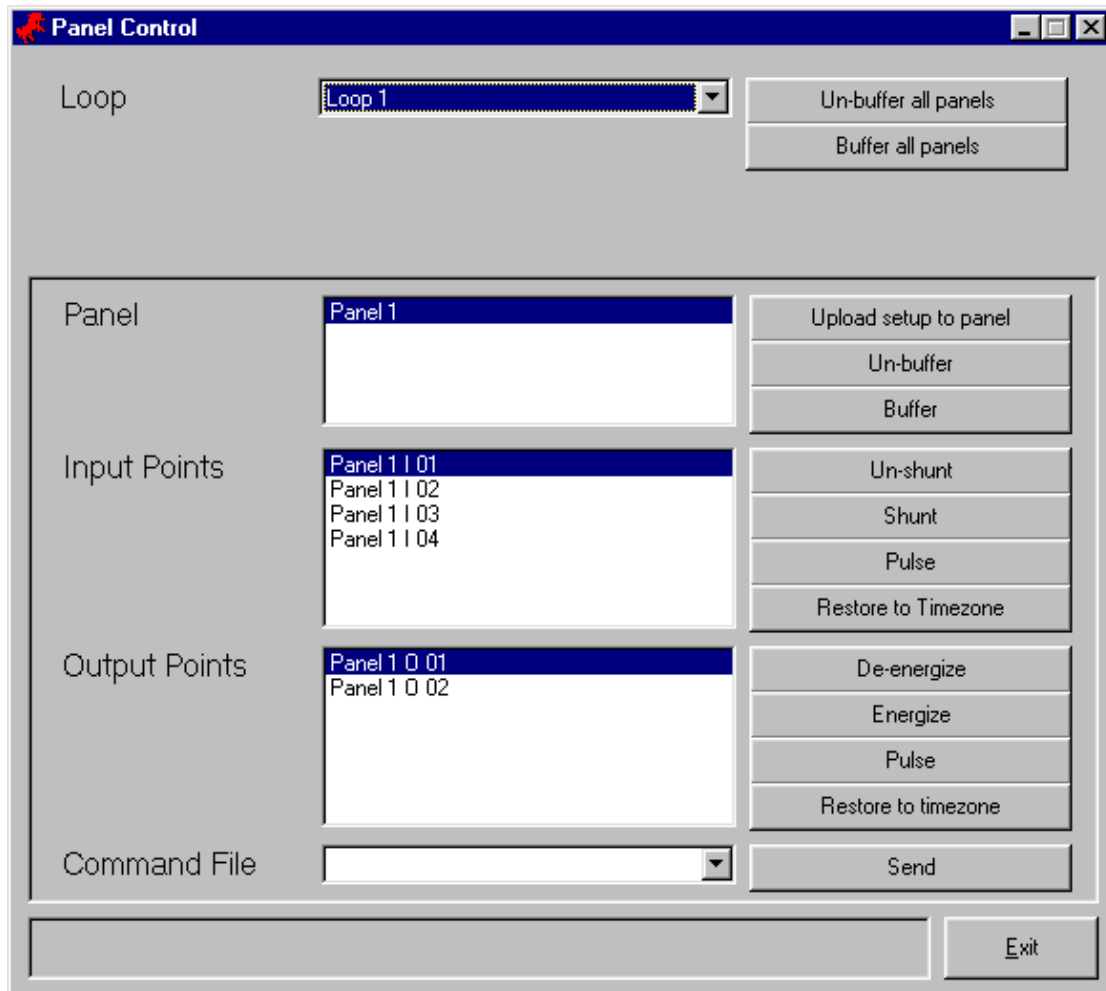


Fig. 1.8

Click **Select All** button then click **Upload Now** button

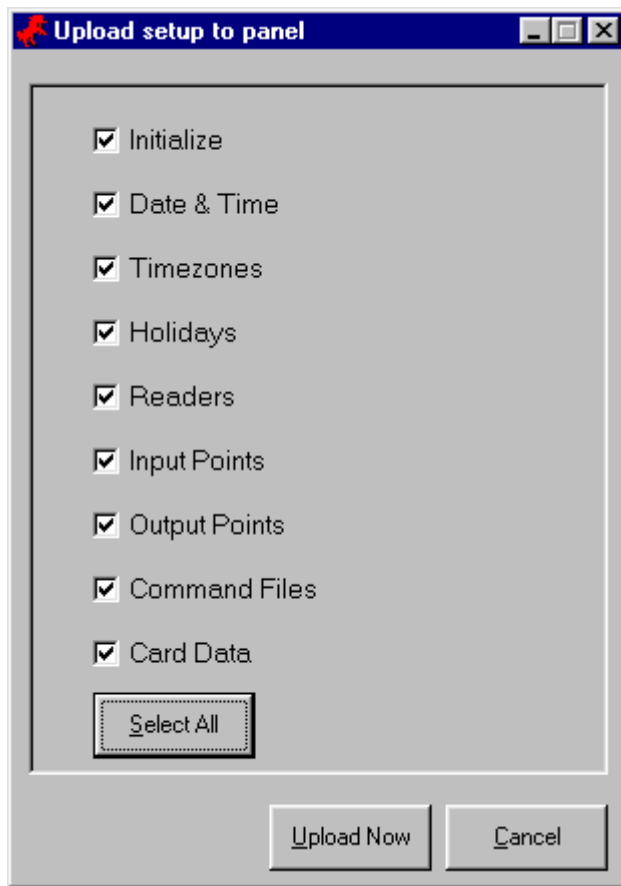


Fig. 1.9

After 'Upload setup to panel', All Panels will be changed to 'Buffer Mode'. Click **Un-buffer all panels** button to un-buffer the Panels so that you can monitor the panel transactions in real time.

- **Add Card Holder**

Note Field: (Select **Note Field** from **Configuration** menu under **Badging**)

Change **Note 1** option to **Drop Down List** and click **Add item** to add Departments

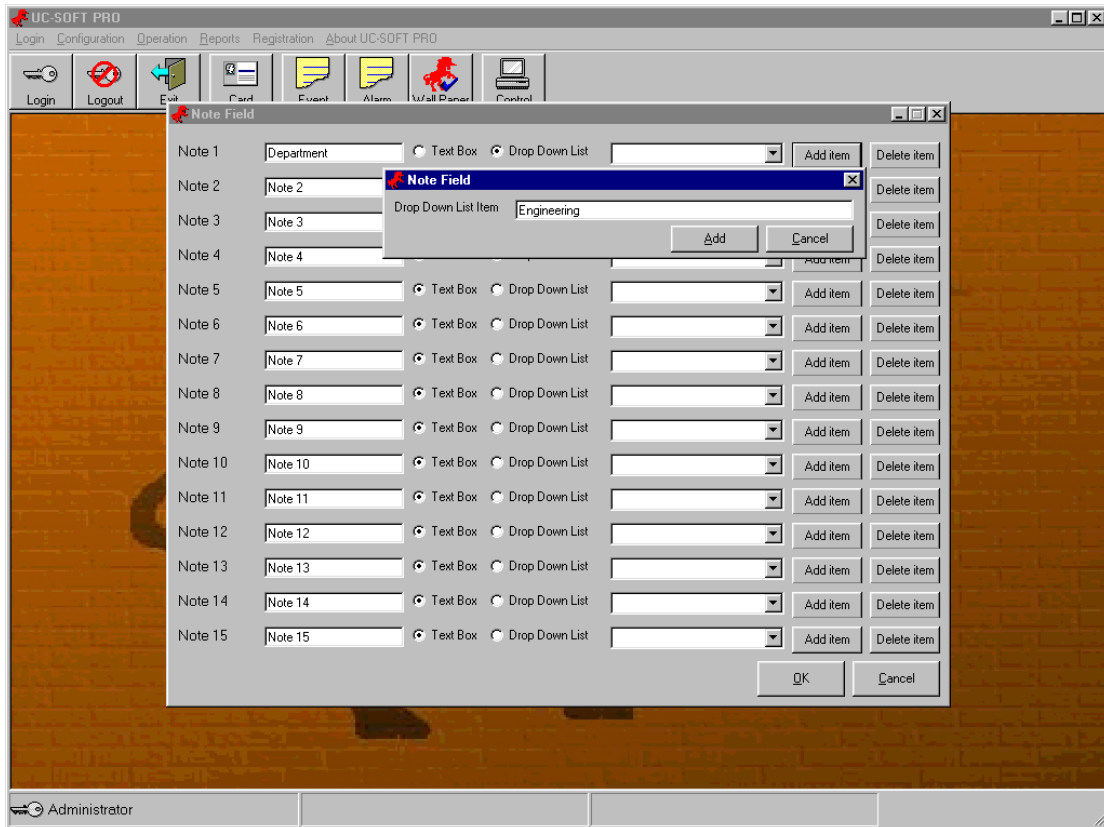


Fig. 1.10

Access Level: (Select **Access Level** from **Configuration** menu under **Badging**)
 Set **Access Level ID** and Click **Add** button twice to add all entrances for this
 Access Level

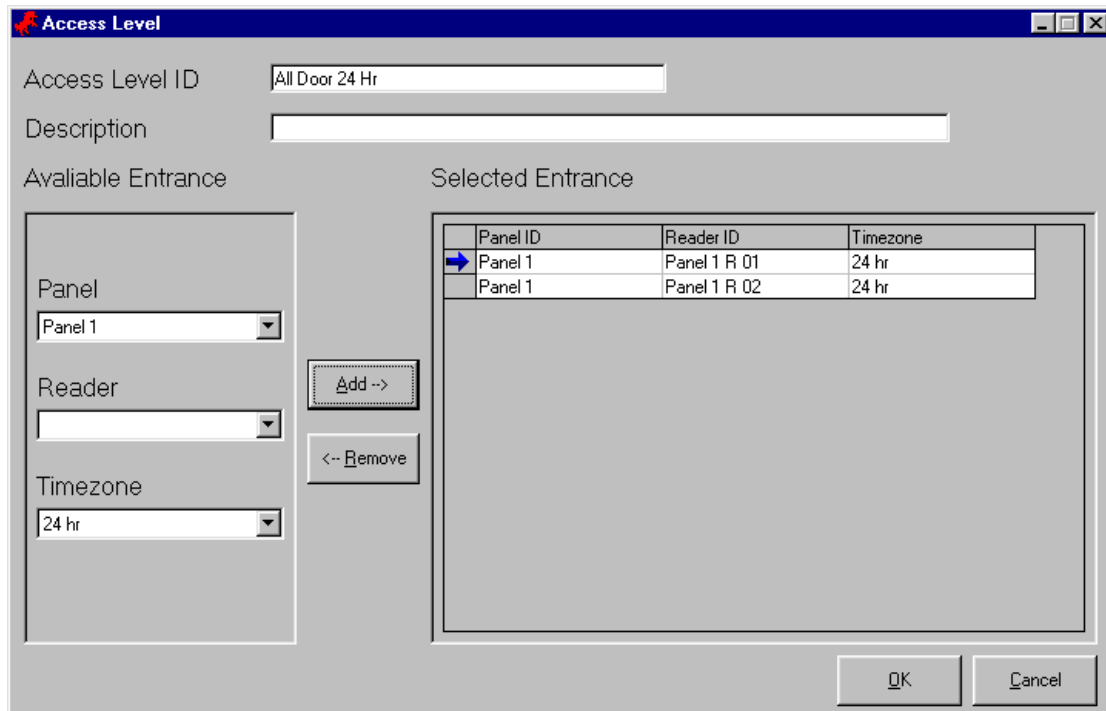


Fig. 1.11

Card Holder: (Select **Card Holder** from **Configuration** menu under **Badging** or click **Card** button in the main Screen)

Set **Staff ID**, **First Name**, **Last Name**, **Card no.**, **PIN** (This PIN code is only required for the Keypad-Card reader operation.), **Access Level ID** and **Note Field**

The screenshot shows a software window titled "Card Holder" with the following fields and values:

- Staff ID: 8007
- First Name: Iris
- Last Name: Wong
- Card no.: 2828
- PIN: 3388
- Access Level ID: All Door 24 Hr
- Status: Active
- Department: Engineering
- Note 2 to Note 15: (Empty text boxes)
- Buttons: Add, Exit

Fig. 1.12

2. Modification of Configuration 1 to One-Door System with Card Readers control on Entry and Exit.

Select **Pulse Output 1 when Valid Card read** in **Reader 2** of **Panel 1** as Fig. 2.1

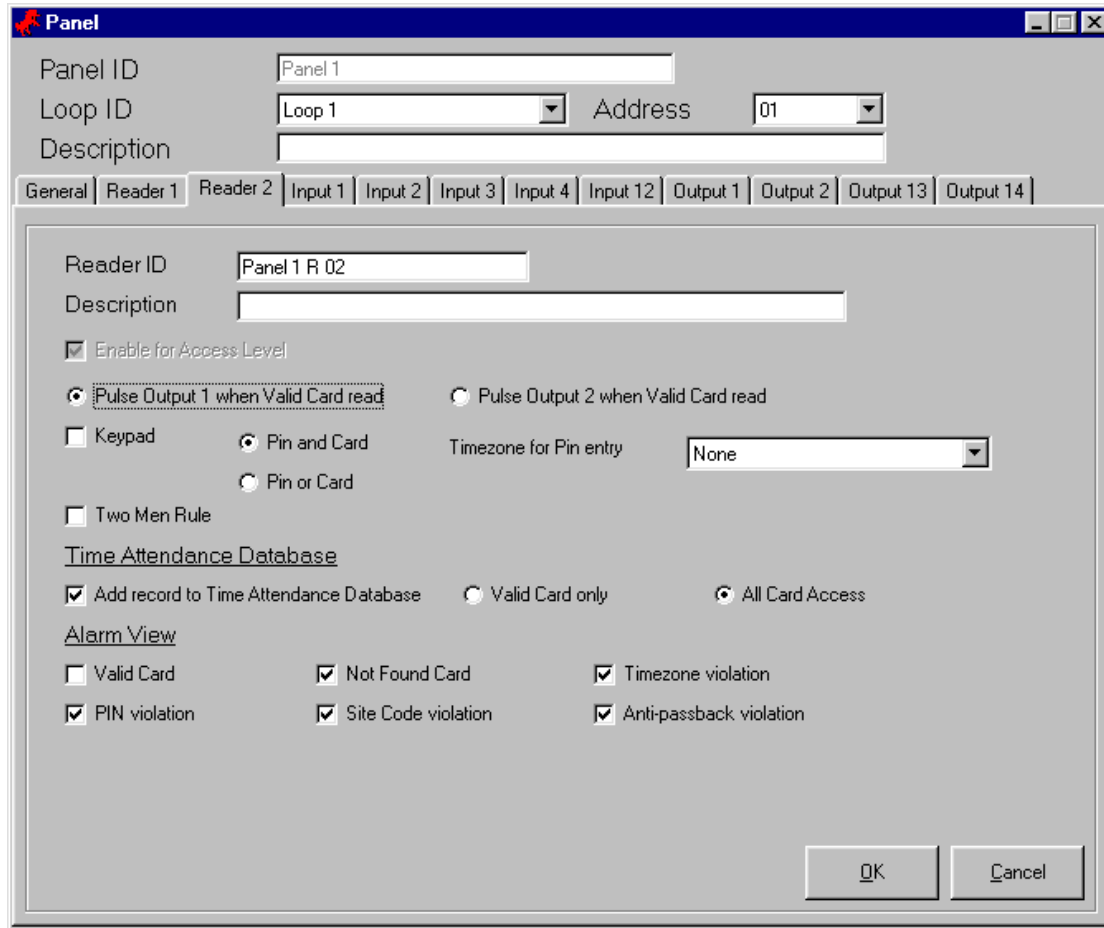


Fig. 2.1

Upload **Readers** from **Panel Control**

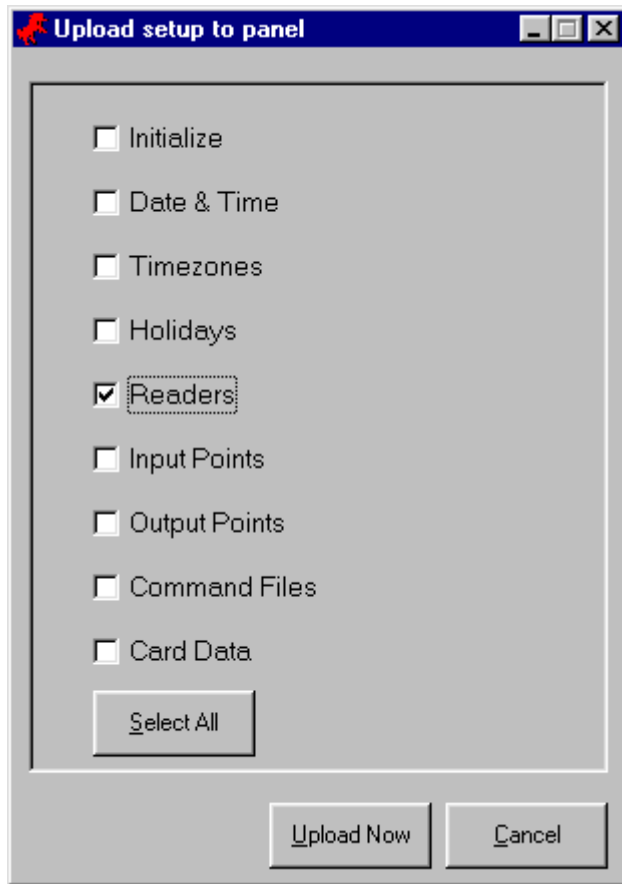


Fig. 2.2

3. Modification of Configuration 2 to change the Entry Card Reader to Keypad-Card Reader. PIN code is required after office hour.

Add After Office Hour Timezone

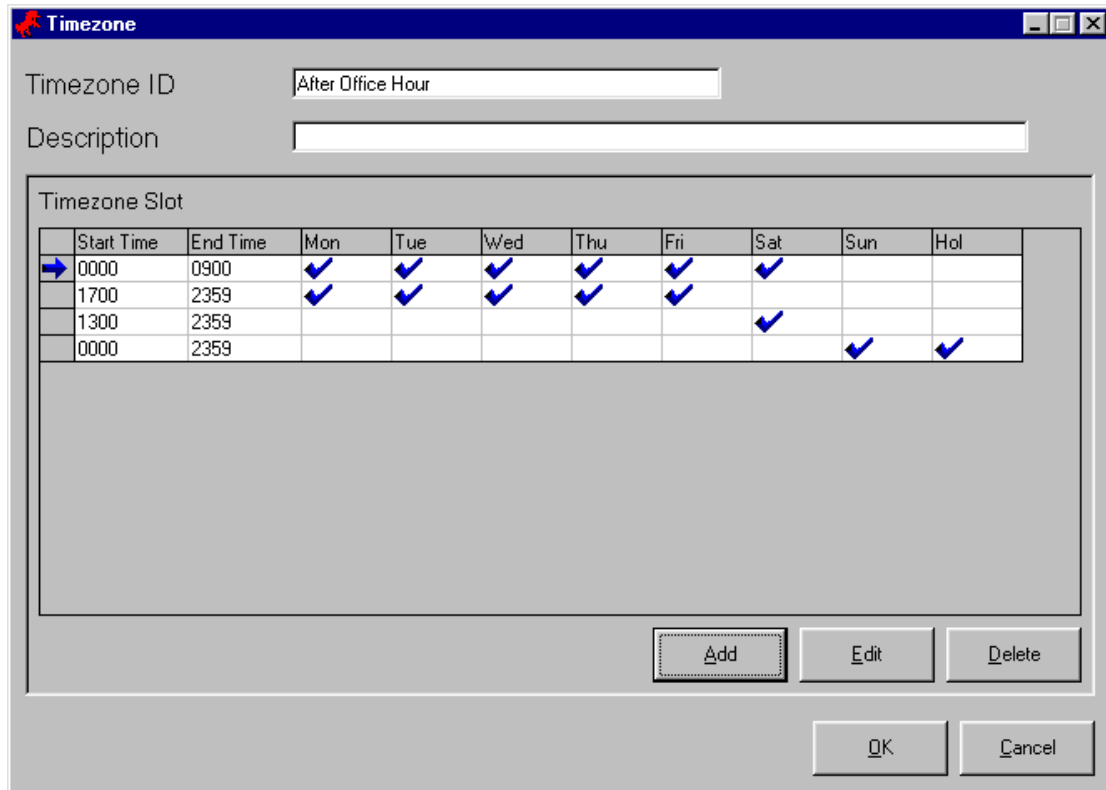


Fig. 3.1

Tick **Keypad** in **Reader 1** of the **Panel 1** and select **After Office Hour** in **Timezone for Pin entry**

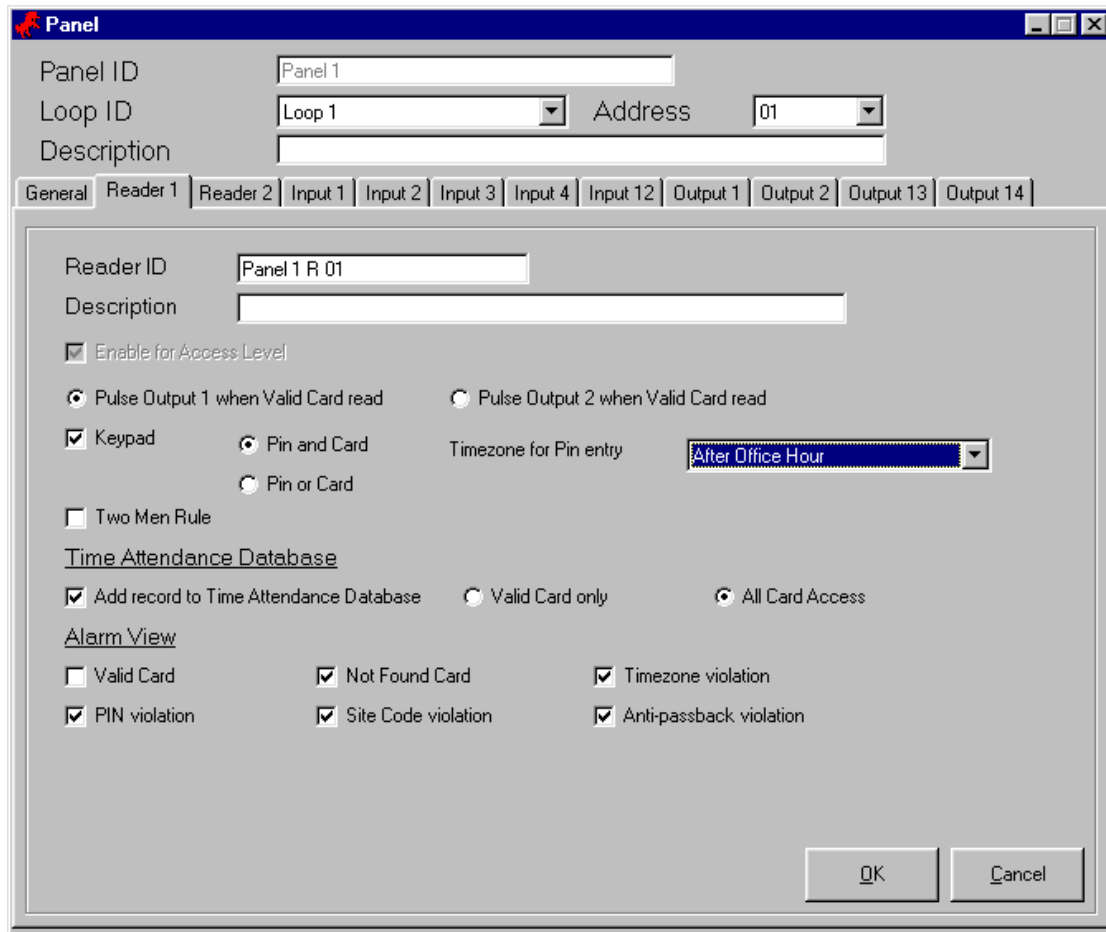


Fig. 3.2

Upload **Readers** from **Panel Control**

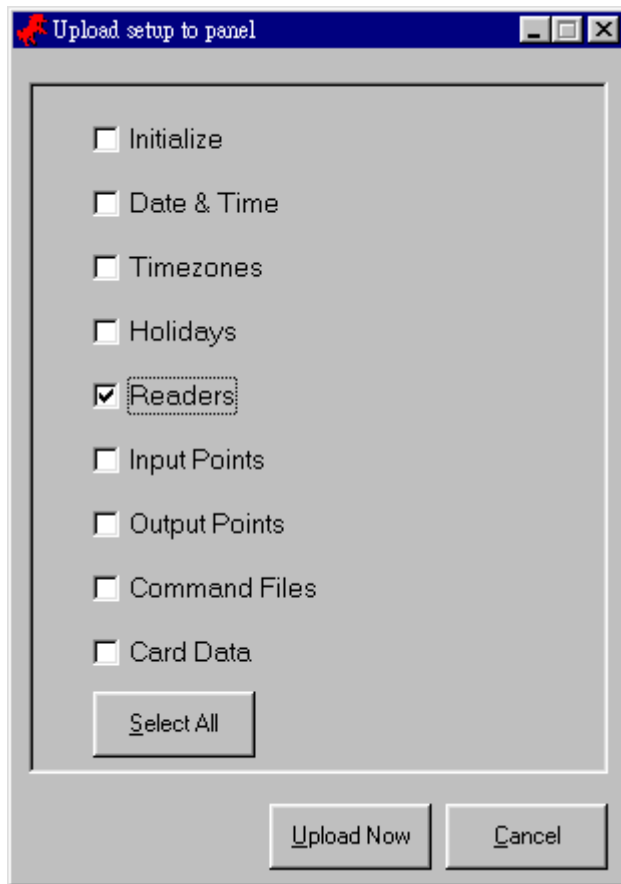


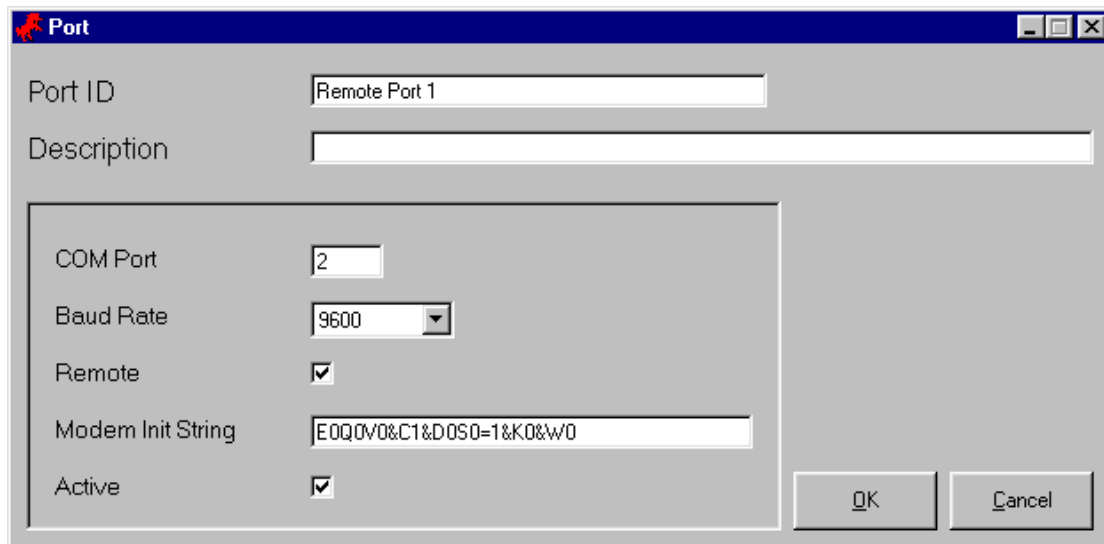
Fig. 3.3

Add **PIN** for Card Holders who are required to enter PIN code to Keypad-Card Reader after office hour as Fig. 1.12

4. How to set up a dial-up remote site?

The setup should refer to Configuration 1 except the following:

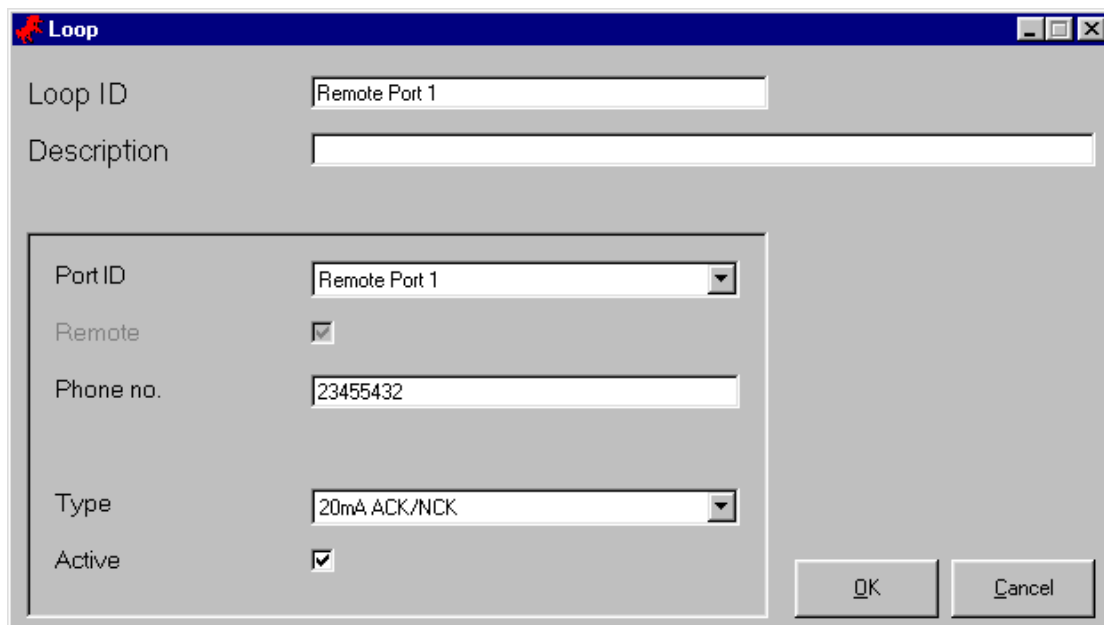
Tick **Remote** in the **Port**, select **Baud Rate** to **9600** bps and change the **Baud Rate of Remote Panels** to **9600** bps (You need to push the Reset Button of the **UC-2000 Panel** after the Panel Baud Rate has been changed.)



The screenshot shows the 'Port' configuration dialog box. The 'Port ID' field contains 'Remote Port 1'. The 'Description' field is empty. The 'COM Port' is set to '2'. The 'Baud Rate' is set to '9600'. The 'Remote' checkbox is checked. The 'Modem Init String' is 'E0Q0V0&C1&D0S0=1&K0&W0'. The 'Active' checkbox is checked. There are 'OK' and 'Cancel' buttons at the bottom right.

Fig. 4.1

Add **Phone no.** in the Remote **Loop**



The screenshot shows the 'Loop' configuration dialog box. The 'Loop ID' field contains 'Remote Port 1'. The 'Description' field is empty. The 'Port ID' dropdown menu is set to 'Remote Port 1'. The 'Remote' checkbox is checked. The 'Phone no.' field contains '23455432'. The 'Type' dropdown menu is set to '20mA ACK/NCK'. The 'Active' checkbox is checked. There are 'OK' and 'Cancel' buttons at the bottom right.

Fig. 4.2

Add the Modem Init String to Remote Modem:

- Connect the **Remote Modem** to the Computer COM Port, which is used for the **Remote Port**, instead of the **Local Modem**.
- In **Panel Control**, select the **Remote Loop** and click **Connect to remote site** button (No need to connect telephone line to the Modem), then the Init String will be sent to the **Remote Modem**. Wait until the Panel Control dialog box becomes active again.

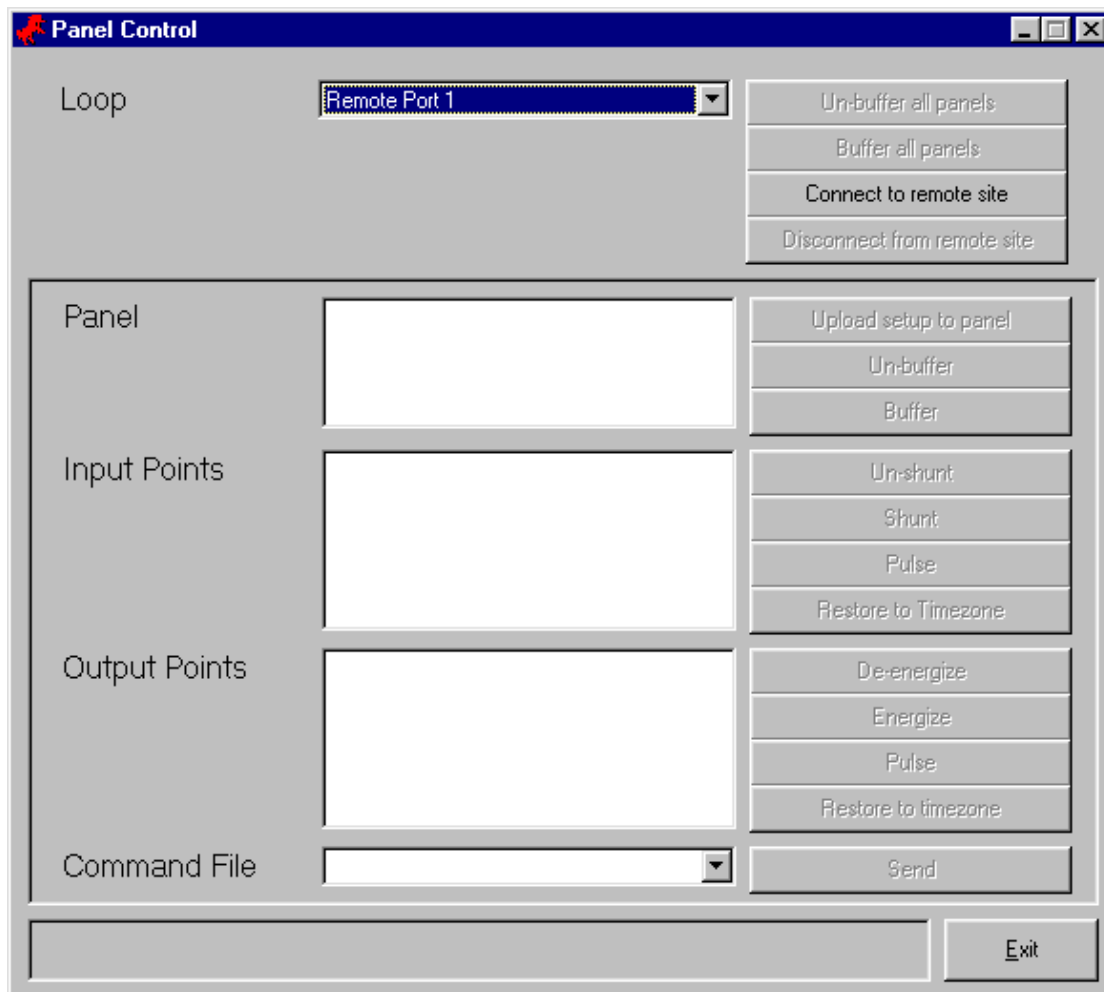


Fig. 4.3

- Then, you may connect the **Remote Modem** back to Remote Site and also connect the **Local Modem** back to Computer COM Port. You may change the **Modem Init String** from "S0=1" to "S0=0" in the **Remote Loop** setup to disable the **Auto Answer** of the **Local Modem**.

5. Can UC-2000 provide Door Force Open signal?

You may make use of Output 13 and 14 (UC-2000 Green LED pin for Reader 1 and Reader 2) for Door 1 and Door 2 respectively to provide Door Force Open.

The following is an example on how to set Door Force Open for Door 1:

- ***Hardware Wiring***

Instead of connecting Reader 1 Green LED pin to Output 13 (UC-2000 Green LED pin for Reader 1), you should connect a beeper (+) to the +5V of the UC-2000 and beeper (-) to Output 13.

You must use a 5Vdc beeper. The overall input current of the beeper and card readers drawn from the +5V output of the UC-2000 must not exceed the limitation of the UC-2000.

A diode IN4007 must be installed across the beeper to protect UC-2000 from the power generated by the collapsing magnetic field of the beeper.

You may make use of the second contact of Output 1 Relay with connection per Fig. 5.1 to provide a Valid Card feedback signal as Output 13.

Wiegand Card Reader

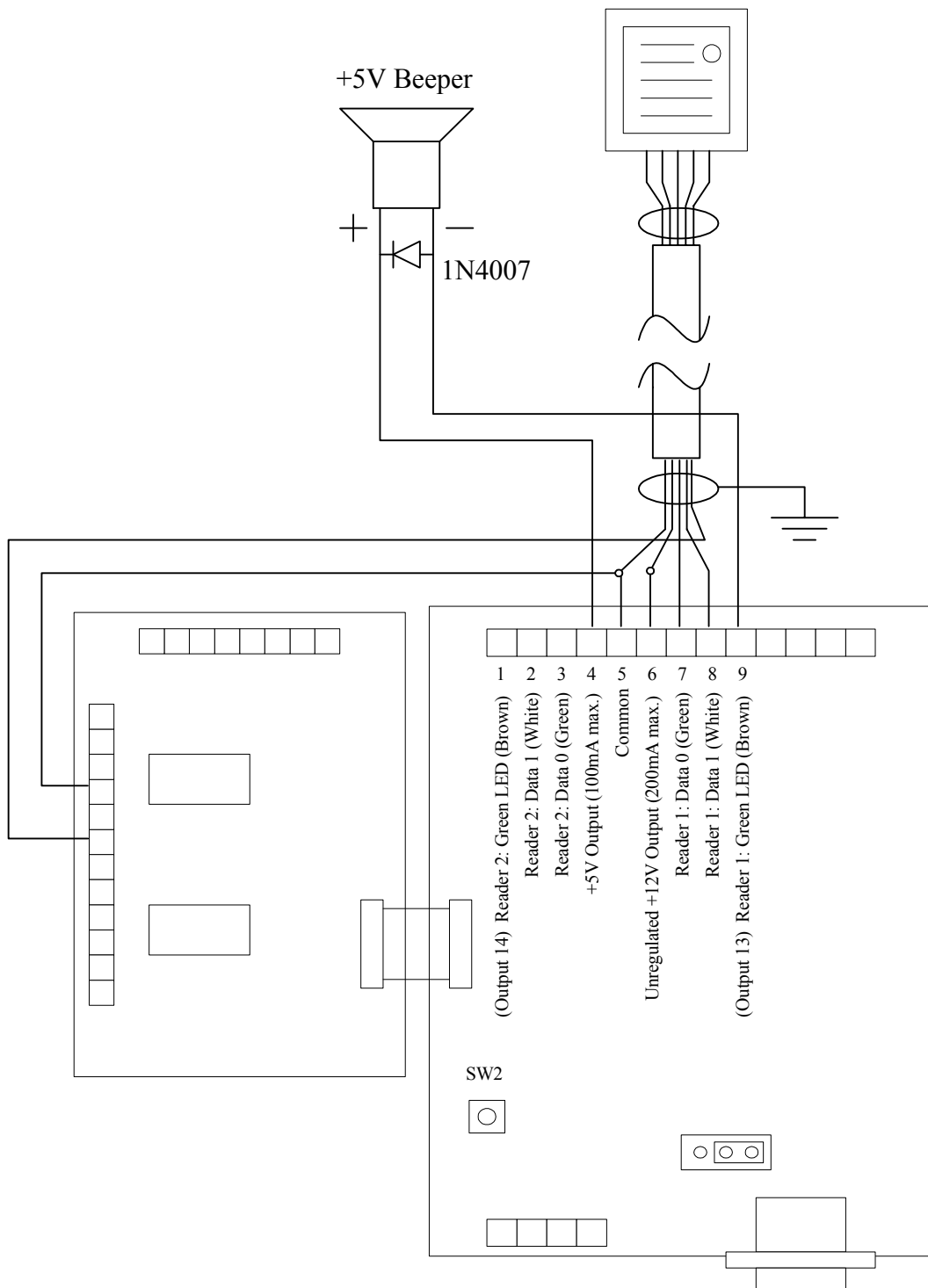


Fig. 5.1

- **Software Setup**

Set **Interlock of Input 1** as the following

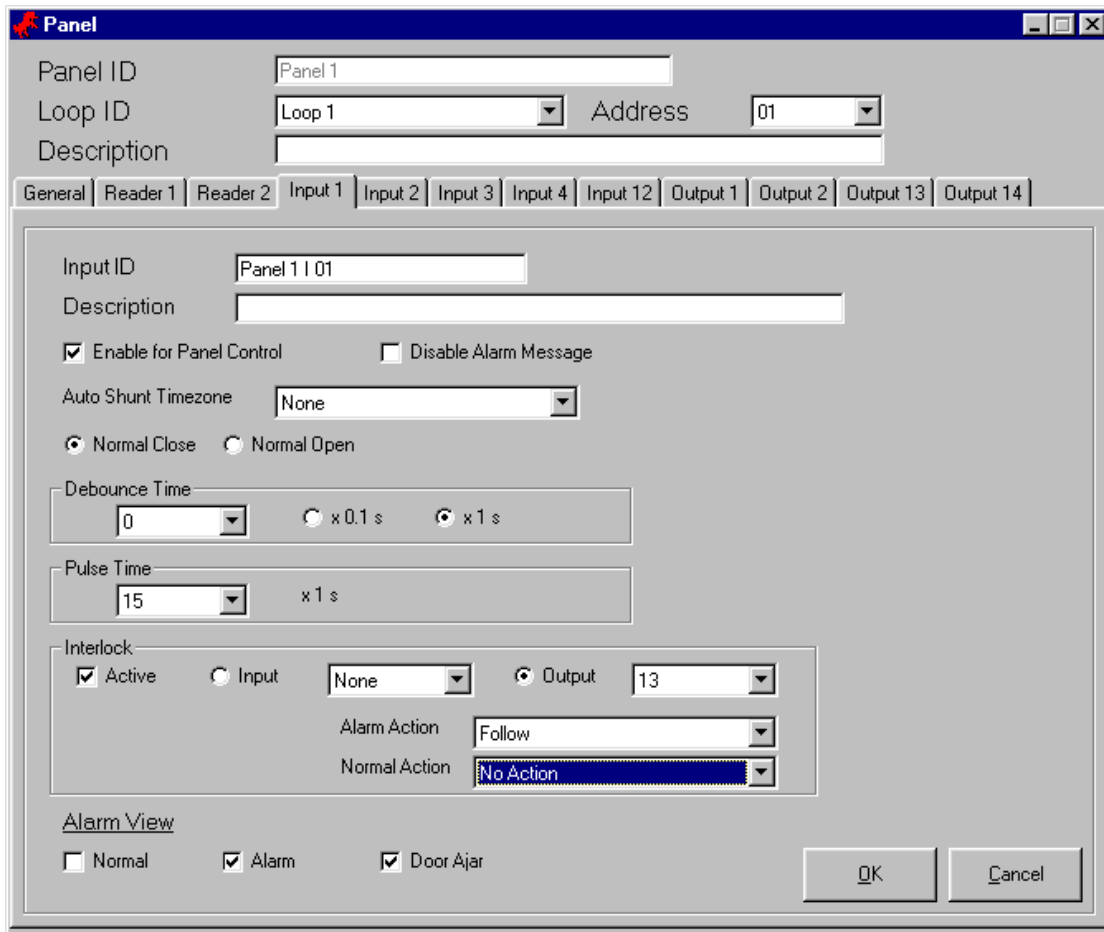


Fig. 5.2

Disable **Pulse output when valid card read on reader 1** option of **Output 13**.

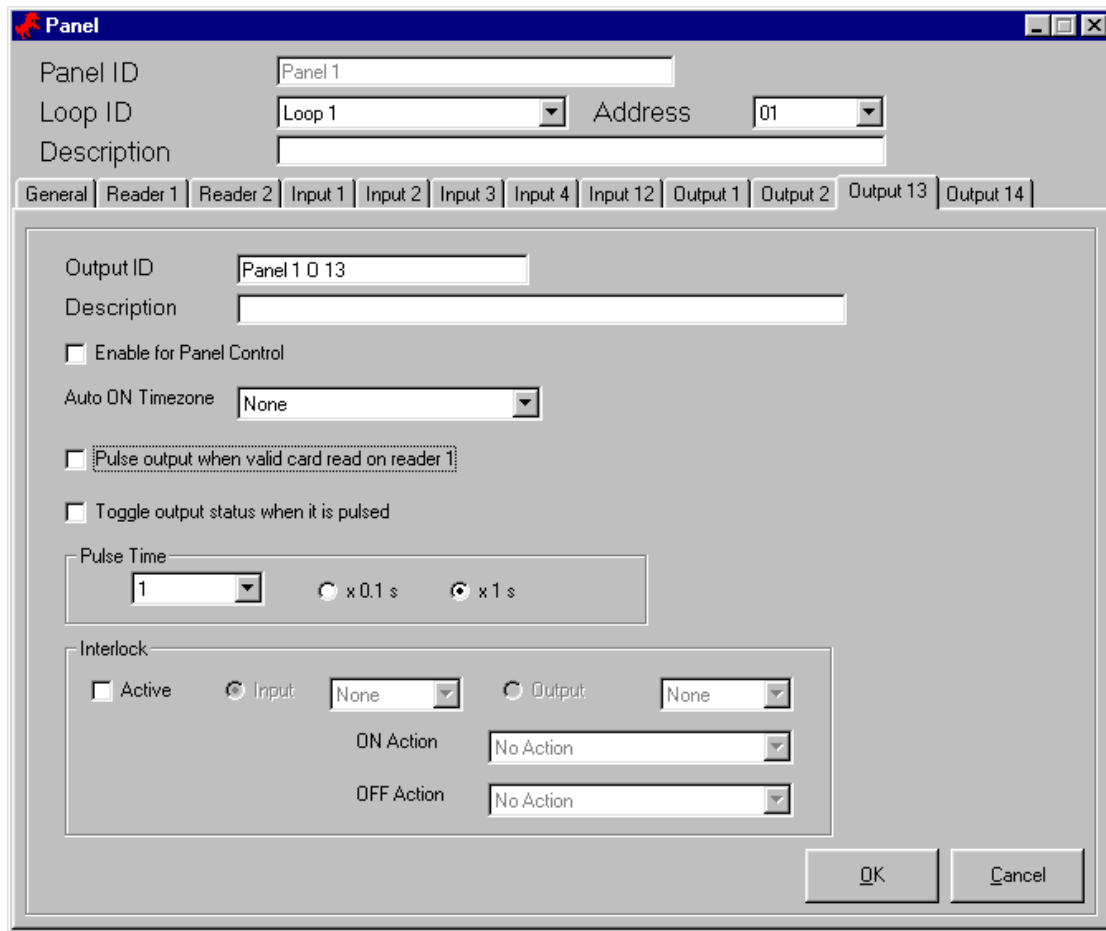


Fig. 5.3

Then, upload **Input Points and Output Points** from **Panel Control**.

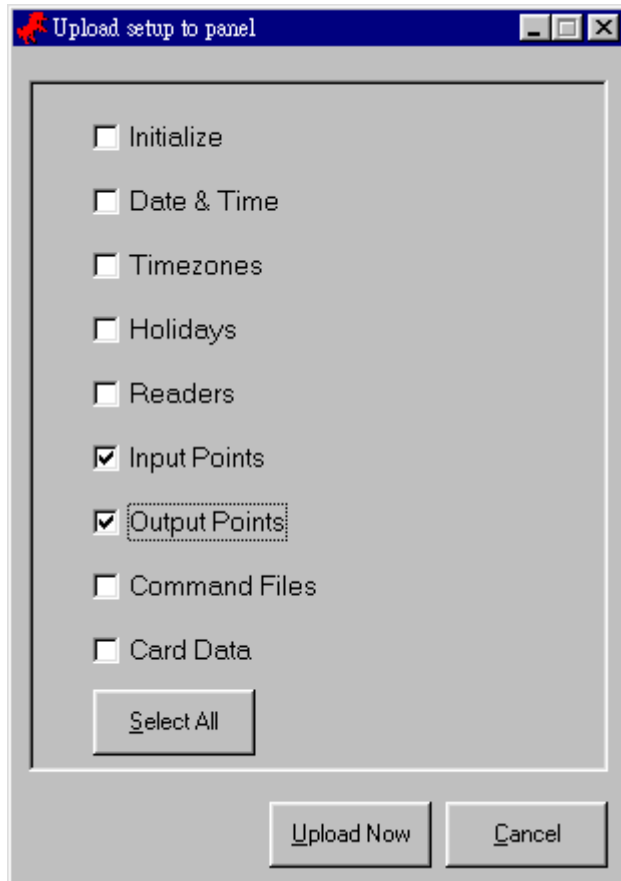


Fig. 5.4

Now the beeper will be ON when Door Force Open or Door Ajar. The beeper will be OFF when the door is closed.